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Title

Tissue-specific transcription footprinting using RNA Pol DamID (RAPID) in *C. elegans*

Article summary

Gene expression is a major determinant of cell fate and physiology, yet it is notoriously difficult to characterize in individual cell types for the widely used model system *C. elegans*. Here, we introduce a method based on the *in vivo* covalent modification of DNA by transcribing RNA polymerases to determine genome-wide transcription patterns in single tissues of embryos or young adult animals. We show that the method is able to identify actively transcribed genes in tissues representing down to 0.2% of the somatic cells in adult animals. Additionally, this method can be fully performed in a single laboratory by using third generation sequencing methods (ONT).

Authors

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Abstract

Differential gene expression across cell types underlies the development and cell physiology in multicellular organisms. *C. elegans* is a powerful, extensively used model to address these biological questions. A remaining bottleneck relates, however, to the difficulty to obtain comprehensive tissue-specific gene transcription data, since available methods are still challenging to execute and/or require large worm populations. Here, we introduce the RNA Pol DamID (RAPID) approach, in which the Dam methyltransferase is fused to a ubiquitous RNA polymerase subunit in order to create transcriptional footprints *via* methyl marks on the DNA of transcribed genes. To validate the method, we determined the polymerase footprints in whole animals, sorted embryonic blastomeres and in different tissues from intact young adults by driving Dam fusion expression tissue-specifically. We obtained meaningful transcriptional footprints in line with RNA-seq studies in whole animals or specific tissues. To challenge the sensitivity of RAPID and demonstrate its utility to determine novel tissue-specific transcriptional profiles, we determined the transcriptional footprints of the pair of XXX neuroendocrine cells, representing 0.2% of the somatic cell content of the animals. We identified 2362 candidate genes with putatively active transcription in XXX cells, among which the few known markers for these cells. Using transcriptional reporters for a subset of new hits, we confirmed that the majority of them were expressed in XXX and identified novel XXX-specific markers. Taken together, our work establishes RAPID as a valid method for the determination of polymerase footprints in specific tissues of *C. elegans* without the need for cell sorting or RNA tagging.

Introduction

Differential gene expression across cell types encompasses both key determinants and markers of the cells' identity. Cataloging these differences can provide critical insights and entry points in research aiming at elucidating the mechanisms controlling fundamental biological processes, such as organismal development and cell/tissue physiology. *C. elegans* is a widely used model animal, particularly well suited for integrative studies bridging our understanding across the molecular, cellular and organismal levels. With its transparent body, *C. elegans* was the first animal used to analyze tissue-specific transcription *in vivo* with GFP reporters (Chalfie *et al.* 1994), an approach still extensively used. In contrast to the versatility of the model for individual gene expression analysis, more holistic approaches such as tissue-specific transcriptomics still remain relatively challenging, in particular in

postembryonic animals due to the tough cuticle and the difficulty to isolate intact tissue or cell types.

Two main general strategies have been developed to analyse specific tissues/cell types in *C. elegans*. A first general strategy involves the purification of tissue-specific messenger RNAs (mRNAs) from whole animals, which we will call “RNA tagging/pulling” hereafter. The most widely used RNA tagging/pulling method rely on the immunoprecipitation of a tagged poly-A binding protein-1 (FLAG::PAB-1) expressed in a specific cell type and cross-linked to RNA (Roy *et al.* 2002; Kunitomo *et al.* 2005; Pauli *et al.* 2006; Mattout *et al.* 2011; Hrach *et al.* 2020). One of the latest versions of this method is referred to as *polyA-tagging and sequencing* (PAT-seq; Blazie *et al.* 2015, 2017). The PAB-based method is technically demanding, in particular for the analysis of a small number of cells (Takayama *et al.* 2010) and has been shown to be associated with significant background noise (Von Stetina *et al.* 2007; Ma *et al.* 2016). Two more recent alternatives to PAB-based mRNA tagging are tissue-specific Translating Ribosome Affinity Purification (TRAP; Gracida and Calarco 2017; Rhoades *et al.* 2019) and trans-splicing-based RNA tagging (SRT; Ma *et al.* 2016). TRAP analysis focuses on ribosome-engaged mRNAs recovered after cross-linking and immunoprecipitation of a tagged ribosome subunit. TRAP allowed the identification of genes expressed in a specific neuron type representing only two cells per animal (Rhoades *et al.* 2019). SRT uses a modified SL1 splice leader expressed in target tissues which is trans-spliced to the transcripts by the cellular machinery (Ma *et al.* 2016). While SRT bypasses the noise inherent in immunoprecipitation procedures, it has so far only been applied to large tissues and the approach is limited to SL1-associated transcripts (62% of the *C. elegans* genes; Yang *et al.* 2017).

The second general strategy relies on the animal disruption and cell isolation, or dissociation, followed by the *in vitro* culturing or sorting of labelled cells (Von Stetina *et al.* 2007; Spencer *et al.* 2011), or nuclei (Haenni *et al.* 2012; Steiner *et al.* 2012) prior to transcriptomics analysis, and which we will call “dissociation-based” methods. The tough cuticle in larval stages and *a fortiori* in adults constitute a significant obstacle, and initial studies focused on embryonic cells which were more easily dissociated. More recent protocols combining FACS and RNA sequencing were successfully used to analyze major tissues (Kaletsky *et al.* 2018) as well as neuronal subsets in adults (Wang *et al.* 2015; down to 6 neurons per animal; Kaletsky *et al.* 2016). Combined with single-cell RNA sequencing (scRNA-seq), large-scale dissociation-based studies can address transcript profiles in multiple cell-types at the same time (Cao *et al.* 2017; Packer *et al.* 2019), including the analysis of individual neuron types (Hammarlund *et al.* 2018; Lorenzo *et al.* 2020). However,

how efficiently specific cell types, especially rare cells, can be purified varies depending on their morphologies, how fragile they are and the developmental stage considered, suggesting that dissociation-independent methods could be useful complementary approaches.

We investigated whether we could use DNA adenine methylation identification (DamID) to footprint actively transcribed genes in specific cell types in whole worms. This approach has been successfully used in *Drosophila* to determine transcribed genes in rare brain cell types (Southall *et al.* 2013). DamID relies on the low-level expression of a fusion between the *E. coli* Dam methyltransferase and a protein of interest, here a subunit of the RNA polymerase. Binding of the latter to DNA leads to the methylation of GATC sites in the vicinity of the binding site (Figure 1A). After DNA extraction, methylated GATCs are specifically cleaved by the restriction enzyme *DpnI* and amplified using adapter-mediated PCR before sequencing (Figure S1A). The adaptation of the method to *C. elegans* seemed promising since endogenous adenine methylation/demethylation is very rare in worms and not targeted to GATC motifs (Greer *et al.* 2015). The GATC site frequency is moreover expected to provide good spatial resolution. Indeed, *C. elegans* has 269,049 GATC sequences per haploid genome, corresponding to an average of one site for every 374 bp and a median of 210 bp (Gómez-Saldivar *et al.* 2016). In *C. elegans*, DamID has been used so far to study the genomic footprint of the DAF-16 transcription factor (Schuster *et al.* 2010), and large-scale interactions between the genome and the nuclear periphery (Towbin *et al.* 2012; Sharma *et al.* 2014; Cabianca *et al.* 2019; Harr *et al.* 2020).

Here, we describe the RAPID approach (RNA Polymerase DamID) for transcriptional footprinting in specific tissues in *C. elegans* in both embryonic blastomeres and in young adults. Using a fusion between a small subunit present in all three RNA polymerases, we show that the technique can be used on both fluorescently sorted blastomere cells, or DNA isolated from entire young adults using cell-type-specific expression generated by *Cre/lox*. To test the versatility of the method, we determined the polymerase footprints in three different tissues at each stage. In young adults, these tissues represent between 10 and 0.2% of the somatic cells of the animal. We show that meaningful transcriptional patterns can be recovered using this technique, in line with previously used, RNA tagging/pulling and dissociation-based methods. We further explore how this technique can be used to discover tissue-specific markers and report here the identification of eight new reporters for adult XXX cells. Additionally, as a result of the phasing-out of older sequencers able to sequence amplicons of different sizes as produced by DamID-seq, we show that new long read sequencing methods can be used to sequence DamID libraries, which makes it possible to

carry out the experiments, from DNA extraction to amplicon sequencing in less than a week without any external sequencing facility.

Materials and methods

Plasmids and transgenic strains

All plasmids and worm strains are listed in Table S1 and S2. Tissue-specific DamID plasmids were generated using Gibson assembly. All DamID plasmids were integrated as single copies using MosSCI either on chromosome II or IV (see details in Supplementary Table 1; Frøkjær-Jensen *et al.* 2008). Strains and plasmids are available upon request.

Worm growth

Worms were grown on solid NGM, seeded with OP50 bacteria for maintenance culture and genetic crosses. All worm cultures were grown at 20°C. For cell sorting, animals were grown on peptone plates seeded with HB101, synchronized twice by hypochlorite treatment. Young adults containing up to 10 embryos were recovered 66 hours after plating synchronized L1 larvae. For DamID experiments in young adults, worms were grown on NGM seeded with Dam negative *E. coli* GM48 for at least two generations. Around 4'000 synchronized L1s were seeded onto 100 mm plates (1,000-1,200 per plate) and collected 53h later. Worms were washed extensively with M9 (at least 10 times) and distributed in aliquots of 30 μ l removing the excess liquid. Samples were snap-frozen and stored at -80 °C.

Sorting of embryonic blastomeres

Synchronized gravid adult hermaphrodites containing 8-10 eggs were treated with hypochlorite. Eggs were then incubated for 3 hours in M9 at 25°C until they reached the 1.5 fold stage. Eggs were transferred to 500 μ l egg buffer (25mM Hepes pH7.3, 118mM NaCl 48mM, KCl 2mM, CaCl₂ 2mM MgCl₂ in 250 ml) and pelleted 1 min at 2000 rpm. The supernatant was then aspirated, leaving 100 μ l of buffer with the pellet. 500 U of chitinase (Sigma-Aldrich;C8241-25U) were added and the mixture resuspended and further incubated for one hour at room temperature. Chitinase was neutralized with 800 μ l Leibovitz medium. Digested embryos were recovered by centrifugation at 3000 rpm for 5 minutes at 4°C. Embryos were then dissociated into isolated blastomeres by pipetting up and down with a P1000 pipette, up to 150 times until dissociation was complete. The cell population was filtered with a Millex-SV syringe 5 μ m filter (Millipore;SLSV025LS). 500 fluorescent cells (one technical replicate) were sorted using a BD FACSAria Fusion (8000 events/second; 85 μ m nozzle) in sterile PCR tubes containing 1 μ l of pick buffer (50mM Tris-HCl pH 8.3; 75mM KCl; 3mM MgCl₂; 137mM NaCl). Collected samples were then frozen in liquid nitrogen before further processing. After DamID processing and PCR (see below), two technical replicates were pooled for sequencing library preparation.

DamID amplification, library preparation, and sequencing

For sorted cells, frozen samples were lysed by addition of 2 μ l of lysis buffer (10mM TrisAc, 10 mM MgAc, 50 mM KAc, 0.67% Tween 20, 0.67% Igepal + 1mg/ml Proteinase K) and incubated for 2 hours at 60°C before Proteinase K inactivation at 95°C for 15 minutes. DamID amplicons were obtained as previously described (Gomez-Saldivar *et al.* 2016) using 30 PCR cycles.

For young adults, DamID was performed on 500 ng gDNA extracted from the animals using DNeasy Blood and Tissue Kit (Qiagen #69504). Two replicates for each stage and cell type were processed. DamID amplicons were obtained as previously described (Gomez-Saldivar *et al.* 2016) with 20 PCR cycles for worm-wide DamID, 22 PCR cycles for muscle DamID, 22-24 for intestine DamID and 24-26 cycles for DamID of XXX cells. New Illumina patterned flow cell technology does not allow sequencing of amplicons larger than 600 bp. Both types of DamID PCR amplicons were therefore sequenced using nanopore sequencing. After AMPure XP (Beckman-Coulter) purification with 1.8 bead volume, DamID PCR amplicons were directly used for nanopore library barcoding and preparation using NBD-104 and LSK-109 kits (Oxford Nanopore). Libraries were sequenced to obtain at least 1 million reads per library on MinION using R9.4.1 flow cells. We compared the performance of both sequencing approaches by sequencing the same libraries with both old paired-end HiSeq2500 Illumina flow cells and nanopore sequencers. Coverage obtained by both approaches were similar (see snapshot of mapped reads in Figure S1E). However, nanopore sequencing allowed the direct sequencing of longer amplicons (Figure S1F), most likely because Illumina cluster amplification does not work well on molecules longer than 800 bp, even on old generation (HiSeq2500) flow cells. We compared whole animal DamID sample libraries generated using previously described strains expressing either a free GFP-Dam fusion or a perinuclear lamin fusion (Sharma *et al.* 2014). Statistical comparison of both techniques at the single restriction fragment level gave a Pearson correlation coefficient between short PE and long reads between 0.84 and 0.86 (Figure S1G).

Bioinformatic analysis

Nanopore sequences were basecalled and demultiplexed using guppy 3.6 with the high accuracy model before mapping to the ce11 genome using minimap2 (Li 2018). Reads were considered as DamID amplicons when both ends mapped +/- 8 bp from a genomic GATC motif. Filtered libraries were then used to call polymerase footprinting values using the damidseq_pipeline package (Marshall and Brand 2015) using bam files (parameters: --bamfiles --extend_reads=0). The damidseq pipeline normalizes for GATC accessibility

using a free Dam (in our case Dam::GFP) profile. Per-gene values were extracted using `polii.gene.call` (https://owenjm.github.io/damidseq_pipeline/) using WS270 gene annotations. Correlations between libraries and methylation footprinting values were made using *ad hoc* R scripts available upon request. Normalized footprinting tracks were visualized using IGV. For the comparison with ChIP-seq tracks, fastq files were downloaded from GEO, mapped to *ce11*, normalized for sequencing depth with a pseudocount of 8 and log2 normalized to the input. Final figure construction was made using IGV and Adobe Illustrator.

Array construction and microscopy

Reporter plasmids were assembled using the 3-fragment MultiSite Gateway system (ThermoFisher Scientific). Promoters of candidate genes were PCR amplified from N2 genomic DNA. Primer sequences and promoter lengths are described in Table S3. Candidate promoters were cloned into pDONR-P4-P1R vector (Invitrogen) by BP recombination, generating slot 1 Entry vectors (Table S2). Final expression plasmids were generated by LR recombinations between promoters (slot 1), mNeonGreen fluorescent ORF (slot 2; dg353; Hostettler *et al.* 2017), *unc-54* 3' UTR (slot 3; pMH473, gift from Marc Hammarlund) and pDEST-R4-R3. The control localization/expression plasmid [*sdf-9p::NLS::wrmScarlet*] was generated through an LR recombination reaction between dg801 (slot 1), dg651 (slot 2; Marques *et al.* 2019), pMH473 (slot 3), and pDEST-R4-R3. Finally, *promoter::mNeonGreen* and *sdf-9p::NLS::wrmScarlet* plasmids were co-injected into N2 young adult hermaphrodites at 20 ng/μl each, with 20 ng/μl of dg9 (*unc-122p::RFP*; red coelomocyte) as a co-injection marker (Addgene #8938; Miyabayashi *et al.* 1999). Two stable lines of each candidate promoter were selected (Table S1). For imaging, young adult animals identified based on the red coelomocyte reporter expression were transferred to a 2% agarose pad containing 0.01% sodium azide. Worms were then imaged on a Zeiss Axiovert microscope with a 20x objective driven by Visiview, using a Photometrics Coolsnap Myo CCD camera with GFP and RFP settings (60 planes spaced by 2 μm), plus a middle plane section in DIC settings. Using Fiji, the acquired optical stacks were then partially z-projected to capture the worm section containing the XXX cells, identified using the *sdf-9p::NLS::wrmScarlet* signal. Final figure construction was made using Adobe Illustrator. For each promoter except *asp-9*, two independent extrachromosomal arrays were scored in at least 5 animals.

Identification of detected and unique tissue-specific genes and validation

Gene coverage of RAPID profiles are listed in Table S4 (blastomeres) and 5 (young adults) (Sheet 1-2). Detected genes in a tissue were defined as genes that are significantly expressed (FDR < 0.05) in one replicate of one tissue (Table S4, sheet 3 and Table S5, sheet 3). Genes consistently detected in a tissue were defined as genes that are significantly expressed (FDR < 0.05) in both replicates of one tissue (Table S4, sheet 4 and Table S5, sheet 4). Representative examples of consistently detected genes used in Figure 2C were selected from the CeNGEN project (<https://cengen.shinyapps.io/SCeNGEA/>) (Hammarlund *et al.* 2018) and visualized using IGV (<https://igv.org/>).

Unique tissue-specific genes were defined as genes significantly and differentially expressed relative to the other two tissues (Table S4, sheet 5 and Table S5, sheet 5). Analysis of the uniqueness of the genes from each tissue was performed using the JavaScript library jvenn (<http://bioinfo.genotoul.fr/jvenn>).

To ensure an unbiased comparison between genes identified as expressed in muscle with RAPID and the set of genes identified with SRT (trans-Splicing Rna Tagging; Ma *et al.* 2016), only SL1 trans-spliced genes were selected, based on the intersection with the 10,589 mRNAs annotated as SL1-trans-spliced by modENCODE (Allen *et al.* 2011), generating a subset of 3477 genes. For the comparison between the genes identified in the intestine with RAPID and the set of genes identified with FANS (Fluorescence Activated Nuclear Sorting; Haenni *et al.* 2012), downregulated genes were eliminated from the list and only genes found as expressed and upregulated, in total 9169 genes, were analysed. For the comparison between the genes identified with RAPID and the set of genes identified with FACS (Kaletsky *et al.* 2018) in muscle and intestine, we directly used the expressed genes list from Table S1, which contained 7690 and 9603 genes, respectively. Chi-squared (χ^2) statistical tests were performed using the GraphPad QuickCalcs Web site <https://www.graphpad.com/quickcalcs/contingency1/> (accessed August, 2020).

Tissue-specific prediction analysis

Tissue expression prediction analyses were performed using the top 500 statistically significant genes that were uniquely enriched in muscle and intestine (Table S5, sheet 6), selecting a multi-gene search within the Tissue-specific Expression Predictions for *C. elegans* program, version 1.0 (<http://worm-tissue.princeton.edu/search/multi>). For the tissue expression prediction test using the RAPID muscle-SL1 group, the parameters published in (Ma *et al.* 2016) were used.

Gene ontology analysis

Gene Ontology analyses were performed on unique tissue-specific gene lists. GO terms and q-values were obtained using gProfiler (<https://biit.cs.ut.ee/gprofiler/gost>) ; (version e100_eg47_p14_7733820) with g:SCS multiple testing correction method applying a significance threshold of 0.05 (Table S5, sheet 7; Raudvere *et al.* 2019).

Functional enrichment analysis for genes detected with different methods was performed using WormCat (<http://www.wormcat.com/index>). Annotations classified into Category 2 were visualized with heatmap diagrams.

Candidate selection for reporter analysis

Candidate genes were selected for follow-up promoter analyses with two goals in mind: demonstrating that they are indeed transcribed in XXX cells and identifying markers with expression restricted to XXX cells. Since XXX cells represent only 0.2% of the *C. elegans* cellular content, we reasoned that XXX-specific markers should produce very little or no signal in the whole animal samples. Therefore, out of the 862 XXX-enriched genes, with a significant RAPID signal in XXX, but not in muscle or in intestine samples, we further removed genes detected in at least one worm-wide sample. We obtained a refined list of 275 XXX-marker gene candidates, which still included the known XXX cell markers *daf-9* and *eak-4* (Table S5, sheet 8). From this candidate list, we selected *dhs-17* as an uncharacterized gene with a plausible link to XXX cell function, plus 11 random candidates. In order to limit caveats related to operons, we excluded a candidate if another transcript was located less than 200 bp upstream. The XXX-specific RAPID signals (RNA pol occupancy values) in the 12-gene subset (average=1.35, SD=0.59) were similar to those in the starting 275-gene set (average=1.47, SD=0.64; $p=.16$ by Student's *t*-test).

Data availability

Embryonic and adult DamID-seq data is available under the GEO accession GSE157418.

Results

RNA polymerase footprinting using RAPID

The RAPID approach relies on the expression of trace levels of the *E. coli* DNA adenine methyltransferase (Dam) fused to a subunit of the RNA polymerases, and the analysis of its DNA occupancy to evaluate the transcriptional state of genes. We first tested whether we could use AMA-1, the largest, catalytic subunit of RNA polymerase II, as reported in Targeted DamID (TaDa), done in neuronal lineages in *Drosophila* (Southall *et al.* 2013). However, the Dam signal was too weak, possibly due to the fact that the expression level of this very large fusion protein under transcriptional control of the uninduced *hsp-16.2* promoter was too low (not shown), or that the localization of the Dam domain within the *C. elegans* polymerase complex was not favorable to access its DNA substrate. We therefore replaced AMA-1 with RPB-6, the *C. elegans* homolog of the RNA polymerase subunit F present in all 3 RNA polymerases (personal communication M. Barkoulas; Katsanos *et al.*, in preparation). RPB-6 together with RPB-1 and RPB-2, forms a 'clamp' that retains DNA near the active center of PolIII (Cramer *et al.* 2000), stabilizing the transcription on the DNA template. In contrast to AMA-1 attempts, we obtained a strong DamID amplicon PCR signal in animals carrying a single copy transgene of the *rpb-6::Dam* fusion. As these animals had not been subjected to heat shock, they therefore expressed only low levels of the Dam fusion, yet the methylation levels were sufficient to perform DamID. Amplicons were sequenced using an ONT MinION nanopore device (see methods section for details and experimental validation of the technique). After signal normalization with GFP::*Dam* data to control for overall chromatin accessibility, we could detect general patterns of methylation that were consistent with polymerase-dependent methylation (Figure 1D-F) and a good correlation at the gene level between replicates (Figure 1B,D,F). We compared the RAPID profiles with published recent RNA polymerase II ChIP-seq datasets in young adult animals (Garrido-Lecca *et al.* 2016; Kalinava *et al.* 2017; Miki *et al.* 2017). Visually, the patterns appeared similar (see examples of profiles in Figure 1D,F). Even if the nature of the data is not identical, we performed a comparative analysis between the datasets for all genes, downscaling the resolution of the ChIP-seq data to GATC fragment (Figure 1B). RAPID and RNA polymerase ChIP-seq show a significant correlation ($R=0.38-0.46$). Overall, inter-replicate correlations were higher between the RAPID replicates ($R=0.86$) and between the RNA polymerase II ChIP experiments ($R=0.63-0.97$). The difference between the RAPID and RNA Pol II ChIP profiles most likely results from the different approach to recover DNA and from the fact that RAPID in adults represent a picture of cumulative transcriptional

activity, while the RNA pol II ChIP represents a polymerase occupancy snapshot at the young adult stage.

To get a more quantitative understanding of the relation between RAPID and transcript abundance, we compared RAPID with RNA-seq data, using one of the published young adult RNA-seq datasets (Miki *et al.* 2017). We ranked all genes based on their RAPID signal and calculated the average RNA-seq signal across 30 equally-sized bins. We observe a clear correlation between RAPID and RNA-seq: genes with high RAPID signal are highly expressed as determined by RNA-seq, while lowly-expressed genes harbor low RAPID levels (Figure 1C).

To understand how the methylation signal spreads along the body of the genes, we constructed metagene plots over all 20'000 *C. elegans* genes for RAPID and RNA pol II ChIP-seq experiments. ChIP-seq signals show a characteristic profile, as the polymerase accumulates at the transcription start sites and at the transcription end sites (TSS and TES, respectively, Figure 1E). RAPID signal increases steadily from the TSS to the TES where it peaks before decreasing from the TES onwards (Figure 1E). This 3' end accumulation is similar to the one observed in ChIP-seq. In contrast, the difference between ChIP-seq and RAPID profiles (absence of a 5' peak in RAPID) is very likely due to the localization of the RPB-6::Dam fusion inside the RNA polymerase complex. Located on the opposite side of the RPB-1/2 complex relative to the DNA strands, the presence of the pre-initiation complex (PIC) at the promoter greatly restricts access to DNA (for review: Cramer 2004; Schier and Taatjes 2020). Once the polymerase switches to elongation, leaving the PIC on the promoter, Dam is likely to gain access to the DNA and efficiently methylates the transcribed region, as observed in the RAPID profiles.

We also examined the profile in genes transcribed by Pol I and Pol III. As expected from the differential inclusion of AMA-1 and RPB-6 subunits in the different polymerases, RAPID with RPB-6 also labelled genes transcribed by RNA Pol I and III. RAPID showed high enrichments on the rRNA genes at the end of chromosome I (Figure S2A), as well as a majority of previously characterized snoRNAs transcribed by RNA polymerase III (46 out of 57; Ikegami and Lieb 2013). snoRNA are sometimes located in introns of Pol II-transcribed genes, making it difficult to differentiate whether the RAPID signal originates from the snoRNA transcription or from the overlapping gene. Nevertheless, 24 out of 44 RAPID-positive snoRNA genes could be unambiguously assigned to Pol III transcription as there was no overlap (Figure S2B). In contrast, the corresponding signal was markedly weaker in the young adult RNA pol II ChIP-seq datasets and very high for the RNA Pol III subunit RPC-1 (performed in embryos, Figure S2B; Ikegami and Lieb 2013).

Taken together, these data show that the RAPID method is suitable to reveal RNA polymerase footprints, serving as indirect indications of transcriptional activity by the three different RNA polymerases.

RAPID in FACS-sorted embryonic cells.

Since RAPID could label transcribed genes in whole animals, our next goal was to adapt the method for tissue-specific analysis. We first explored whether RAPID could be used to footprint transcription in specific cell types of the embryo purified using fluorescent sorting. Using strains constitutively expressing Dam fusions, we sorted 1000 cells for 3 different tissues of various abundance: body wall muscle, intestine and the rectal Y cell (80, 20 and 1 cell per embryo, respectively; Figure S3A, Table S4). RAPID could produce footprints for all samples (Figure S3C), and the reproducibility of the RAPID signal at the gene level between replicates was good for the intestinal sample ($r=0.78$) yet lower for muscle and Y cell samples ($r=0.46$ and 0.24 , respectively; Figure S4A). When using an FDR below 0.05, we detected a total of 4986, 3165 and 4819 genes with a high RAPID signal in the muscle, intestinal and Y datasets respectively, and 1566, 1570 and 840 consistently detected genes (FDR<0,05, in both replicates) in these tissues (Table S4). In these experimental conditions, RAPID appears suitable to identify transcription footprints of cell type specific genes, such as the intestinal genes *cpr-6* (cathepsin B; Pauli *et al.* 2006) and *elo-2* (fatty acid elongase ELOVL; Han *et al.* 2017), or the Glutathione S-Transferase gene *gst-4* expressed in muscle, as well as the muscle-specific WDR1 homolog *unc-78* (Figure S3C; Mohri and Ono 2003; Hasegawa *et al.* 2007). Comparison of the footprints obtained for all three tissues allowed us to define 395 Y-specific genes (Figure S3B), and among them, shallow Y-specific RAPID signal was visible for *ceh-6* and *sox-2*, two transcription factors previously shown to be involved in Y-to-PDA transdifferentiation initiation (Figure S3C; Kagias *et al.* 2012). In contrast, we observed some unexpected RAPID footprints for genes which we expected to be expressed in a tissue-specific manner. For example, the myosin *myo-3* was observed in all 3 tissues (Figure S3D). Conversely, some genes which are known to be expressed in tissue-specific manner did not show high RAPID values, e.g. the intestine-specific *asp-1* and *spp-5* genes or the muscle-specific *pat-10* one (Figure S3D). These differences might have a biological significance: most transcription patterns have been defined in older animals, yet those genes might be expressed more broadly, or not at all, in embryonic blastomeres. Alternatively, the lack of a robustly established transcription pattern might hinder faithful footprinting. Indeed, RAPID requires the enzymatic action of the methyltransferase to build up the signal, while footprints are removed at each replication round in rapidly dividing

blastomeres. Together with the stochasticity of single methylation events, this might decrease the precision of the profiles. In agreement with this, intestinal cells, most of which are born and remain postmitotic early, display high reproducibility in the RAPID signal, while late-born muscle and the Y cell are less reproducible (Figure S3C,D). In conclusion, RAPID allows transcriptional footprinting of sorted cells, provided cells have been born long enough for the Dam fusions to methylate reproducibly their target genes. These results thus suggest that RAPID may be more suited for the study of later developmental stages.

Tissue-specific RAPID in young adult animals.

We next asked whether we could use the RAPID approach for the analysis of tissue-specific transcription profiles in adult worms. To circumvent the technical difficulties associated with mature animal dissociation and cell sorting, we sought to implement a transgenic approach for the cell-specific targeting of the RPB-6::Dam fusion. Several strategies have been developed to target Dam fusion expression to specific tissues, using either bicistronic constructs attenuating Dam translation (Southall *et al.* 2013), tamoxifen-induced nuclear translocation (Pindyurin *et al.* 2016; Redolfi *et al.* 2019) or tissue-specific recombination cassettes (Muñoz-Jiménez *et al.* 2017). We used the latter strategy using an insertion of a floxed mCherry ORF located between the *hsp-16.2* promoter and the Dam fusion (Figure 2A). Tissue-specific expression of the Cre recombinase leads to low-level expression of the Dam fusion (Ruijtenberg and van den Heuvel 2015). We used three different Cre drivers expressed in muscle, intestine and a pair of head neuroendocrine cells called XXX, using *myo-3*, *elt-2* and *sdf-9* promoters, respectively. We conducted cell-specific RAPID with only 4'000 young adult hermaphrodites as starting material for DNA extraction. DamID signal across genes was highly correlated between replicates, and less correlated between different Cre drivers, suggesting tissue-specific DamID footprinting (Figure S4B).

Among the genes with high RAPID signal, we defined sets of *detected* genes in each tissue (with a FDR below 0.05 in at least one replicate), representing 4379, 4583 and 3901 genes with high RAPID footprint in intestine, muscle and XXX cells, respectively. Among these, we also defined sets of *consistently detected* genes (with FDR of <0.05 in both replicates), encompassing 2052, 2296 and 2362 genes in intestine, muscle and XXX cells, respectively. Out of these, 1011, 747 and 862 were detected in only one tissue and defined as *tissue-specific* (Figure 2B, Table S5, sheet 5). 536 genes harbored high RAPID footprints in all three sampled tissues (Figure 2B, Table S5, sheet 9), and a GO term analysis highlighted many very general terms consistent with the function of housekeeping genes (Table S5).

We validated these results focusing first on individual genes with well-characterized tissue-specific expression (Figure 2C). The intestine-specific progastricsin aspartyl protease homolog gene *asp-1* and the saposin-like channel defense gene *spp-5* were exclusively footprinted in intestinal samples (Tcherepanova *et al.* 2000; Roeder *et al.* 2010). *myo-3*, the muscle myosin gene and *pat-10*, a troponin gene, both exclusively expressed in muscle tissues, harbored high RAPID footprints in muscle samples (Miller *et al.* 1986; Kagawa *et al.* 1997). Finally, the XXX-specific genes *daf-9* (encoding a P450 cytochrome homolog) and *eak-4* (encoding a membrane protein) were marked with RAPID exclusively in XXX cells (Gerisch *et al.* 2001; Hu *et al.* 2006).

Comparison of tissue-specific RAPID with available datasets in muscle and intestine

To expand the validation of our RAPID footprint gene lists beyond selected tissue markers, we next engaged three more comprehensive approaches. These approaches focused on muscle and intestine, since no large-scale gene expression data are available in XXX cells.

First, we focused on a narrower set of genes with high RAPID footprint present exclusively in one of the tissues. These gene lists with the top 500 unique genes of each tissue, were analyzed with a computational method that predicts tissue-specific enrichment, using a multi-gene query (<http://worm-tissue.princeton.edu/>; Chikina *et al.* 2009). The tissue prediction tool showed that muscle-only and intestine-only RAPID footprinted genes gave a high prediction score for muscle and intestine, respectively (Figure 3A, B). In contrast, their scores were much lower for non-targeted tissues (including neurons, hypodermis and germline).

Second, we compared the genome-wide RAPID footprint signal levels with expression levels of genes determined by RNA-seq in FACS-sorted body wall muscle and intestinal cells (Kaletsky *et al.* 2018). As for whole animal samples (Figure 1C), we observed a correlation between RNA-seq levels and RAPID signals for both tissues (Figure 3C,D). Similar correlations were observed when comparing RAPID signal with single cell RNA-seq data (scRNA-seq, Figure S8), with the caveat that the scRNA-seq experiment was performed in the second larval stage, not in young adults (Cao *et al.* 2017).

Third, we compared the RAPID-detected gene sets with those reported for adult muscle and intestine in RNA-seq-based studies with (RNA-seq of FACS-sorted cells by Kaletsky *et al.* 2018), SRT (Ma *et al.*, 2016), FANS (Haenni *et al.*, 2012) or PAT-seq (Blazie *et al.* 2017). A majority of genes with detectable RAPID footprints were also identified with these tissue-specific transcriptomic methods. We found that 90% of the muscle RAPID hits (Figure 3E and Figure S5), and 87% of the intestinal RAPID hits were detected by at least one of the

other methods (Figure 3F and Figure S5). Remarkably, the overlap between the genes detected by RAPID and other methods is in the same range as that found between other methods (our own data in Table S5, and similar analyses in Haenni *et al.* 2012; Ma *et al.* 2016). Although these results are encouraging and suggest that RAPID hits are genuinely expressed in these tissues, we note that the number of genes detected with RAPID is overall lower than that detected with other methods, especially in the intestine, where FACS-seq and PAT-seq detect twice as many genes as RAPID (Figure S5C). To evaluate what kind of genes were not identified by RAPID under our experimental conditions, we performed GO-analyses on the common gene sets (identified by two methods) and method-specific gene sets (identified by one but not the other method) (Figure S6 and S7, and Table S6). For this purpose, we used the WormCat analysis tool (Holdorf *et al.* 2020), specifically developed to categorize and visualize *C. elegans* GO data. For the RAPID/FACS and RAPID/PAT-seq common gene sets, we mostly found GO categories related to widely-expressed genes (*Development, Transmembrane proteins, Signaling, Metabolism...*) and categories that one would expect in these tissues (Figure S6/S7). For example, significantly enriched categories in muscle included: *Muscle function* and *Cytoskeleton*; and in the intestine: *Metabolism of lipids, Trafficking of vesicles, Endocytosis, and Lysosomes* (Figure S7). GO categories associated with RAPID-missed genes (only-FACS, only-PAT-seq in Figure S7) and FACS/PAT-seq common genes largely overlapped with those from the RAPID/FACS and RAPID/PAT-seq common genes, and contained additional very general categories (such as *Transcription, DNA, Ribosome, Development* or *mRNA processing*). They also included less expected categories (such as *Extracellular material: collagen, Neuronal function: neuropeptide* and *Major sperm protein* in muscle, and *Muscle function, Cytoskeleton actin function, and Major sperm protein* in intestine). These latter categories may point to possible contaminations by other tissues, a known phenomenon in cell-sorting and cross-linking-based methods (Von Stetina *et al.* 2007; Haenni *et al.* 2012; Spencer *et al.* 2014).

Taken together, the results of our comparative analyses with previous gene expression studies indicate that, even if the number of RAPID-detected genes tends to be lower than for RNA-seq-based methods, RAPID identifies tissue-specific RNA polymerase transcriptional activity that largely matches the specific transcriptional output in these tissues.

RAPID identifies genes expressed in XXX cells

XXX cells are neuroendocrine cells derived from hypodermal embryonic progenitors. They express enzymes required for steroid hormone synthesis such as DAF-9 and are implicated in the control of dauer formation during development (Gerisch *et al.* 2001; Ohkura *et al.* 2003). As we still have limited information on the set of genes expressed in XXX cells, as well as on the role of those cells in adults, our XXX-cell transcribed gene dataset could represent a valuable resource for future studies. We thus conducted additional experiments to confirm the validity of RAPID profiles to infer gene transcription in those cells and identify new markers.

A GO term analysis highlighted many terms related to secretory and neural functions in the gene set specific for XXX cells, while they were absent from the muscle- and intestine-enriched gene sets (Table S5, sheet 7). These results are expected for neuroendocrine cells, with functional properties very similar to those of neurons.

To further confirm the validity of RAPID profiles to infer gene transcription, we selected 12 genes with high RAPID signal in XXX cells compared to intestine, muscle and whole animals, by comparing their profiles in the four tissues (Figure S6). We cloned their putative promoters in front of a mNeonGreen fluorescent reporter (Hostettler *et al.* 2017) and created transgenic lines bearing extrachromosomal arrays by gonad microinjection, together with an XXX-specific red reporter driven by the *sdf-9* promoter (the promoter which we previously used for XXX-specific RAPID). Out of the 12 promoters, eight drove expression in the XXX cells at various levels (*asic-1*, *dhs-17*, *F14H8.2*, *C06A1.3*, *asp-9*, *B0034.5*, *F52E1.5*, and *nlp-15*, Figure 4), one was impossible to score (*T22E5.6*), as it also drove high expression in the pharynx located very close to the XXX cells, and three did not show detectable expression in XXX cells (in adults; *mab-9*, *twk-39* and *lgc-36*). The absence of expression in the latter group could indicate that these genes represent false positives in the RAPID analysis, that the transcription was active only at earlier developmental timepoints, or that the arbitrarily defined promoters failed to reflect the endogenous transcriptional activity. Even if the subset of genes tested with the reporter follow-up analysis is small, we could calculate a gross estimate of the true positive rate of RAPID in XXX cells. Based on the 8/11 ratio (8 positive genes/promoters out of 11 interpretable readouts), a resampling bootstrap simulation indicated that the true positive rate should range between 45 and 88% (95% confidence interval, Figure S10). By extrapolation, this would correspond to a range of about 1100 to 2100 genes expressed in XXX and identified via RAPID.

Interestingly, in half of the reporters expressed in XXX cells (4/8), we observed only limited or no signal in other cell types. In particular, reporters for *dhs-17* and *F14H8.2* were

predominantly expressed in XXX cells and sequence homology suggests plausible XXX-specific roles for these two genes. Indeed, *dhs-17* encodes an uncharacterized member of the short-chain dehydrogenase/reductase family (SDR), which is potentially involved in steroid metabolism (Zhang *et al.* 2013) and may therefore contribute to this specific neuroendocrine function of XXX cells. As for *F14H8.2*, it is a paralog of *eak-4* selectively expressed in XXX cells and regulating dauer formation (Hu *et al.* 2006).

Taken together, the results of our reporter gene analysis indicate that the RAPID approach applied to only two cells per animal successfully identifies actively transcribed genes in these cells, including genes with relatively low expression and novel cell-specific markers.

Discussion

Determining the transcriptional profile of specific cell types has been a major hurdle for *C. elegans* researchers, as most research is carried out on intact, living animals. Recent technological advances now allow the acquisition of a comprehensive view of the genes expressed in individual cell types. Two main RNA-based approaches have been used in the community to this aim:

- “RNA tagging/pulling” approaches that allow to sample gene expression directly from whole, live animals, either through affinity purification or pull-down enrichment.
- “dissociation-based” methods, requiring tissue dissociation followed by either purification of cells/nuclei by FACS or individual cell isolation.

Here, we adapt a third type of approach originally developed in *Drosophila*, based on RNA polymerase footprinting on DNA (Southall *et al.* 2013). RAPID is based on DNA modification by DNA adenine methyltransferase fused with a RNA polymerase subunit, detecting active transcribed genes footprinting by DamID (van Steensel *et al.* 2001). RAPID is a simple, fast and cost-effective technique to identify transcribed genes in individual tissues or cells, requiring only the knowledge of one tissue- or cell-specific promoter. We discuss below the specificities and limits of RAPID for transcriptional profiling, in comparison with previously published methods (summarised in Table S7).

First, as RAPID is based on the extraction of DNA from entire animals, it avoids *in vitro* cell manipulations and cell isolation-induced transcriptome modifications, similarly to RNA-tagging/pulling techniques. Second, since methylation occurs only in cells in which the Dam fusion is expressed after *Cre/lox* recombination, RAPID yields signals with a high specificity toward targeted tissues. Our comparative analyses with other methods for muscle and intestine, as well as the validation of our results with XXX cells, indeed indicate that a majority of RAPID hits are genuinely expressed in these tissues. Third, the very low level of

signal background noise in RAPID makes it sensitive enough to function with a low number of worms (4'000, at least a 10-fold reduction compared to other methods), even for a tissue representing 2 cells per animal. This reduces the time necessary for worm population growth. Additionally, as each examined tissue only requires a tissue-specific Cre driver (many of which already exist; Kage-Nakadai *et al.* 2014; Ruijtenberg and van den Heuvel 2015), and as the library preparation is relatively simple to execute, RAPID makes it possible to process several conditions/tissues in parallel and is accessible to a neophyte researcher in the field. Fourth, RAPID is versatile, as minimal modifications will be required to target other DNA interacting proteins such as transcription factors or chromatin modifiers, in order to analyze tissue- or cell-specific genome-wide binding (Marshall and Brand 2017; Aughey *et al.* 2018). With the lower cost of nanopore sequencing systems, it is even conceivable that individual labs purchase their own equipment, further cutting down on waiting time and indirect costs.

The advantages described above come at a cost, in particular on how quantitative, dynamic and comprehensive RAPID data is. Our comparison of the overlap between transcriptomic datasets from different methods suggests that a certain portion of genes is uniquely detected by each method (Fig. S5), an indication that no single approach truly captures the complete transcriptome or that variable experimental conditions impact on the genes identified as expressed. However, when compared to all other RNA-seq based methods (Fig. S5), RAPID identified overall less genes as expressed. On the one hand, it is possible that affinity purification or dissociation-based methods could detect a number of genes due to contaminants and experiment-induced gene expression, or stored messengers inherited from mother cells. On the other hand, RAPID has a number of inherent technical limitations, which may hinder a comprehensive and unbiased genome interrogation, as described below.

1. RAPID relies on the GATC density per gene, and a lower density will yield a lower signal, as longer *DpnI* restriction fragments will be less efficiently amplified by the DamID PCR. In agreement, genes detected using FACS/RNA-seq but not by RAPID, have on average a lower GATC density (data not shown and Kaletsky *et al.* 2018). Increasing the material amount and/or sequencing coverage is expected to dampen this type of bias.
2. Another consequence of the methylation is that the dynamic range of RAPID compared to RNA-seq is expected to be lower: once a gene sequence is fully methylated, further transcription will not lead to increased methylation levels of the DNA, leading to a plateau effect. Conversely, as RAPID uses minute traces of the

Dam fusions, lowly expressed genes will rarely be bound by a polymerase containing the Dam fusion, and their sequence will be rarely methylated. As our quantitative comparison reveals (Fig. 1C/3B), these issues are partially relieved by the stochasticity of the methylation between different cells in different animals, leading to a correlation between RAPID levels and expression levels determined by RNA-seq. Increasing sequencing coverage should allow both the retrieval of more lowly expressed genes and an improvement in the signal dynamic range. For certain applications, such as identifying tissue-specific genes to serve as molecular markers, a lower dynamic range can actually be an advantage as compared to RNA-seq methods, as the large range of mRNA molecule number in a cell requires very deep sequencing in order to detect more lowly expressed genes.

3. RAPID signal on DNA will not discriminate between gene isoforms created by alternative splicing, since the RNA polymerase will progress over the whole intronic and exonic regions regardless of whether they are retained in the final mRNA product.
4. RAPID signal is a stochastic average of the methylation by polymerases since the last DNA replication (which erases the methylation signal). The comparison between embryonic blastomeres and young adult tissues (with older post-mitotic cells) highlights the increase in reproducibility of RAPID as animals age (Fig. S4). Genes detected by RAPID are likely to represent cell-specific genes which are expressed over longer time scales in the cells under study, rather than transient expression in response to the environment. While this phenomenon enables RAPID to efficiently identify cell type-specific genes (Tables S4,S5), it will also limit its ability to report quantitative variations over shorter timescales.
5. In its present form, RAPID is not well suited to analyse transcriptome dynamics, as the methylation signal can only be erased by DNA replication. RAPID could be further improved by timing the expression of the Dam fusions. We tested auxin-mediated Dam degradation. However, degradation was not complete enough and the remaining low levels of Dam fusions were sufficient to create a RAPID signal (data not shown). Alternatively, degron-tagged Cre recombinases might provide a more reliable way to time the expression of the Dam. In a post-mitotic context however, RAPID should be able to identify transcriptional up-regulation events in response to environmental changes, as successfully achieved in *Drosophila* (Widmer *et al.* 2018). In addition, recent publications have highlighted the existence of a large cohort of genes with oscillating expression between molts (Kim *et al.* 2013; Hendriks

et al. 2014; Meeuse *et al.* 2020; Hutchison *et al.* 2020). RAPID is unlikely to capture this type of phenomenon, which could turn into a desirable feature when one wants to mitigate this variability, e.g. in studies comparing hard-to-synchronize genetic backgrounds.

In conclusion, we believe that RAPID is a useful addition to the existing methods to analyse comprehensive gene expression at the cell type level, allowing one to identify new and specific markers and further study their biology. RAPID is an easy, scalable, entry-level method to target rare or less known cell types, cell types difficult to purify because of their morphology or the developmental stage targeted or when synchronisation of large populations is tedious, notably when multiple genotypes have to be assessed.

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Figure legends

Figure 1. RAPID: RNA Pol II DamID scheme.

A. *Dam::rpb-6* bound to all three RNA polymerase types modifies proximal GATC motifs. DamID analysis provides RNA polymerase footprints *in vivo*.

B. Gene-level correlations in young adults whole animals of RAPID and RNA polymerase Chromatin immunoprecipitation-seq using different antibodies (a: (Garrido-Lecca *et al.* 2016); b: (Kalinava *et al.* 2017); c: (Miki *et al.* 2017)).

C. Comparison of RAPID signal with mRNA expression profiling. All genes are represented on the x axis ranked, from left to right, based on RAPID signal in the entire animal (shown on left y axis). Averages transcripts per million (tpm, calculated with salmon) using dataset from study c above (rRNA depleted) were calculated, using the genes falling into each bin of 690 genes on the x axis (values on right y axis).

D, F. Profiles at large scale (D) and gene scale (housekeeping genes, F) of RAPID and the different RNA polymerase II ChIP-seq studies cited in B.

E. Metagene plot of the RNA polymerase II ChIP-seq and RAPID signals on WS270 genes. TSS: transcription start site; TES: transcription end site.

Figure 2. Tissue-specific expression profiles using RAPID by *Cre/lox* recombination in young adult animals.

A. Experimental system for tissue-specific expression of Dam fusions and RAPID analysis.

B. Venn diagram of overlap between expressed genes identified using RAPID in 3 different tissues.

C. RAPID profiles for previously characterized genes expressed in a tissue-specific manner in intestine, muscle, and the XXX neuroendocrine pair.

Figure 3. Validation of RAPID muscular and intestinal transcriptomes.

A-B. Tissue enrichment prediction of tissue-specific RAPID transcriptomes. The top 500 hits of unique tissue-enriched genes for muscle (A) and intestine (B) were analyzed by the online tool Tissue-specific Expression Predictions for *C. elegans* (<http://worm-tissue.princeton.edu/search>). Tissue enrichment scores (mean and SEM) showed that the top genes of each tissue identify their corresponding original tissue.

C-D. Semi-quantitative comparison between RAPID and FACS/RNA-seq in intestine and muscle (Kaletsky *et al.* 2018). All genes are represented on the x axis ranked, from left to right, based on the RAPID signal in the considered tissue (shown on left y axis). Averages of transcripts per million (tpm) for those genes were calculated, binning genes by pools of 690

(30 bins) on the x axis (values on right y axis). The muscular and intestinal marker genes presented in Fig. 2C are indicated in green and blue, respectively.

E. Overlap of genes footprinted using RAPID with muscle-expressed genes detected by FACS (left; (Kaletsky *et al.* 2018) and SRT (right; Ma *et al.* 2016). For the comparison to SRT data, the subsets of SL1-trans-spliced genes detected using RAPID and FACS were used.

F. Overlap of genes footprinted using RAPID with intestine-expressed genes detected by FACS (Kaletsky *et al.* 2018) and FANS (Haenni *et al.* 2012).

Figure 4. Promoters of genes identified as expressed in XXX cells using RAPID drive fluorescent reporter expression in XXX cells. Left panel, partial z-projections of adult heads showing expression of *sdf-9p::mScarlet* in XXX cells. Middle panel, partial z-projections of adult heads showing the expression pattern of *mNeonGreen* reporter under transcriptional control of the promoters of indicated genes. Right panel, merge of fluorescent channels within DIC images validating the expression of mentioned genes in XXX cells. Bar: 10 μ m.

Supplementary figures

Figure S1. DamID Sequencing using Illumina or Nanopore technologies.

A. Principle of methylated GATC identification using DamID. Methylated GATC motifs are cut using the methylation-sensitive *DpnI* restriction enzyme, before **B.** adapter ligation and PCR amplification using a primer hybridizing in the adapter. **C.** For Illumina sequencing, classical DNA library preparation is used, involving Y adapter ligation and limited PCR amplification. DamID amplicons can only be sequenced on non-patterned Illumina flow cells as their variable length is detrimental to cluster formation and polony amplification. To solve the latter issue, amplicons from the first PCR round were directly sequenced using ligation-mediated library preparation and ONT long read sequencing. **D.** While Illumina sequencing highlights the beginning of the amplicons (and the end in case of paired end sequencing), ONT long read sequencing captures the entire length of the amplicon. **E.** Snapshot of the same library sequenced with Illumina short read sequencing (paired end, upper panel) and ONT long read sequencing (bottom panel). **F.** Comparison of amplicon length obtained from both sequencing techniques for the same library (blue, Illumina; orange, ONT). The smaller sizes of Illumina-sequenced amplicons is due to the loss of these amplicons during polony amplification in Illumina sequencing, as the average size of the amplicons determined using automated electrophoresis before loading onto the flow cell

correspond to the ONT-sequenced one (data now shown). **G.** Pearson correlation at the single GATC fragment resolution for 4 different libraries of 2 different Dam fusions (with either GFP or LMN-1) sequenced with either Illumina (short PE) or ONT (Long) sequencers.

Figure S2. RAPID allows identification of PolII and PolIII transcribed genes.

A. RAPID footprinting of the rDNA locus on the right telomere of chromosome I, together with RNA polymerase II ChIP-seq (8WG16 ChIP-seq from young adult animals from (Miki *et al.* 2017). **B.** RAPID signal at PolIII snoRNA genes, with no PolIII overlapping signal (24 out of 57 genes; 8WG16 ChIP-seq as in A). PolIII-specific genes were taken from (Ikegami and Lieb 2013), ChIP-seq for RPC-1 (RNA polymerase III subunit A) performed in embryos. The 8WG16 antibody produces a low residual signal on the snoRNA genes. **C.** RAPID signal at polIII snoRNA genes with overlapping PolIII ChIP-seq signal (20 out of 57 genes; data as in A and B). **D.** snoRNA genes with no RAPID signal (13 out of 57 genes; data as in A and B). Classifications were done twice independently by visual inspection of the tracks.

Figure S3. RAPID using sorted embryonic blastomeres

A. Procedure schematic. Embryonic blastomeres from a strain ubiquitously expressing trace amounts of Dam constructs (either fused to GFP or RPB-6) were sorted based on the expression of fluorescent markers using fluorescence-activated cell sorting (FACS). For each construct and each tissue, 1'000 cells were pooled before performing DamID. **B.** Venn diagram showing overlap between RAPID footprinted genes (FDR < 0.05 in both replicates). **C, D.** Individual profiles for genes specific for the different tissues tested (intestine, muscle and Y cell).

Figure S4. Pearson correlation coefficient between RAPID libraries at the single gene level resolution for the different tissues tested.

A. Correlation of RAPID footprinting signal between replicates performed in different tissues in embryonic blastomeres sorted using fluorescent markers. **B.** Correlation of RAPID footprinting signal between replicates performed in different adult tissues using Cre-mediated recombination for tissue-specific expression of the Dam fusions.

Figure S5. Extended comparative analysis of the muscular and intestinal transcript profiles obtained with RAPID and RNA-seq-based methods.

A. Overlap of genes footprinted using RAPID with muscle-expressed genes detected by FACS-seq (Kaletsky *et al.* 2018) and PAT-seq (Blazie *et al.* 2017). **B.** Overlap of

SL1-trans-spliced genes detected by different methods in muscle: RAPID (this study), PAT-seq (Blazie *et al.* 2017), FACS ((Kaletsky *et al.* 2018) and SRT (Ma *et al.* 2016). The selection of SL1-trans-spliced protein-coding genes was made according to the annotation of modENCODE (Allen *et al.* 2011, Ma *et al.* 2016). **C.** Overlap of genes footprinted using RAPID with intestine-expressed genes detected by PAT-seq (Blazie *et al.* 2017), FACS (Kaletsky *et al.* 2018) and FANS (Haenni *et al.* 2012). **D.** Tables showing the percentage of genes commonly detected by method pairs (listed in A-C, respectively). For the muscle transcriptome, two tables are shown: one with all the genes detected by the methods in A (left) and another with the SL1-trans-spliced genes as used for the analysis in B (middle). **E.** Cross-method consistency as assessed with the fractions of genes detected by one, two or three methods. The percentage of genes detected by at least one method is indicated in the last column (Σ). The analysis corresponding to muscle and muscle-SL1 is shown in the left and middle tables. The analysis corresponding to the intestine is shown in the table to the right.

Figure S6. Muscle transcriptome GO-analysis.

Comparison of gene sets commonly identified by two methods (Common) and gene sets identified by only one method (Only-RAPID, Only-FACS, Only-PAT-seq). **A.** Comparison between RAPID (this study) and FACS (Kaletsky *et al.* 2018). **B.** Comparison between RAPID (this study) and PAT-seq (Blazie *et al.* 2017). **C.** Comparison between FACS ((Kaletsky *et al.* 2018) and PAT-seq (Blazie *et al.* 2017). Functional enrichment analysis was performed using WormCat. The pervasively represented category "unknown" was removed from the depicted heatmap. Green asterisks highlight expected muscle-specific categories and red asterisks highlight less expected categories for this tissue (more typical in other tissues; Holdorf *et al.* 2020).

Figure S7. Intestine transcriptome GO-analysis.

Comparison of gene sets commonly identified by two methods (Common) and gene sets identified by only one method (Only-RAPID, Only FACS, Only PAT-seq). **A.** Comparison between RAPID (this study) and FACS (Kaletsky *et al.* 2018). **B.** Comparison between RAPID (this study) and PAT-seq (Blazie *et al.* 2017). **C.** Comparison between FACS (Kaletsky *et al.* 2018) and PAT-seq (Blazie *et al.* 2017). Functional enrichment analysis was performed using WormCat. The pervasively represented category "unknown" was removed from the depicted heatmap. Green asterisks highlight expected intestine-specific categories

and red asterisks highlight less expected categories for this tissue (more typical in other tissues; Holdorf *et al.* 2020)

Figure S8. Semi-quantitative comparison between RAPID and sciRNA-seq (L2 larval stage; Cao *et al.* 2017) in intestine (**A**) and muscle (**B**). All genes are represented on the x axis ranked, from left to right, based on the RAPID signal in the considered tissue (shown on left y axis). Averages of transcripts per million (tpm) for those genes in cells identified as intestine (511 cells) or muscle (10'508 cells) were calculated, using the genes falling into each bin of 690 genes on the x axis (values on right y axis). The muscular and intestinal marker genes presented in Fig. 2C are indicated in green and blue, respectively.

Figure S9. RAPID profile of candidate genes with XXX-specific expression.

RAPID footprinting of twelve candidate genes expressed in a tissue-specific manner in XXX cells but not in muscle, intestine and enriched worm-wide are shown. Candidate XXX genes are ordered according to the RAPID footprinting level.

Figure S10. Estimation of the true positive rate in XXX-specific RAPID hits. Cumulative distribution of the predicted number of true positive hits in the XXX RAPID dataset, based on the fraction of true positives in the gene subset tested with the reporter gene approach. Resampling was performed with 10'000 bootstrap iterations. Boundaries of the 95% confidence interval are depicted in red.

Supplementary information

Table S1

Worm strains collection

Strain name	Source	Genotype
BN195	Towbin 2012	<i>bqSi195[hsp-16.41p::dam::myc::lmn-1]; unc-119(+)] II</i>
BN196	Towbin 2012	<i>bqSi196[hsp-16.41p::gfp::myc::dam 3'UTR; unc-119(+)] II</i>
IS3675	This study	<i>fpSi2[hsp-16.2p::lox::degron::dam::rpb-6::unc-54 3'UTR; unc-119(+)] II</i>
MS438	CGC	<i>lrls25[elt-2p::nls::gfp::lacz; rol-6(su1006)] V</i>
PD4251	CGC	<i>ccIs4251[myo-3p::gfp::lacz::nls;myo-3p::mito gfp; dpy-20(+)] I</i>
IS2922	This study	<i>fpls76[egl-5p(6.5kb)::Δpes-10::mcherry; Bluescript] I</i> <i>fpls92[hlh-16p::GFP::hlh-16(exon1)::hlh-16 3'UTR;pRF4]</i>
IS3467	This study	<i>fpls76[egl-5p(6.5kb)::Δpes-10::mcherry; Bluescript] I</i> <i>fpls92[hlh-16p::GFP::hlh-16(exon 1)::hlh-163'UTR;pRF4]</i> <i>bqSi196[hsp-16.41p::gfp::myc::dam; unc-119(+)] II</i>
IS3685	This study	<i>fpls76[egl-5p(6.5kb)::Δpes-10::mcherry; Bluescript] I</i> <i>fpls92[hlh-16p::GFP::hlh-16(exon 1)::hlh-163'UTR;pRF4]</i> <i>fpSi2[hsp-16.2p::lox::degron::dam::rpb-6::unc-54 3'UTR; unc-119(+)] II</i>
IS3651	This study	<i>ccIs4251[myo-3p::gfp::lacz::nls;myo-3p::mito gfp; dpy-20(+)] I</i> <i>bqSi196[hsp-16.41p::gfp::myc::dam; unc-119(+)] II</i>
IS3684	This study	<i>ccIs4251[myo-3p::gfp::lacz::nls;myo-3p::mito gfp; dpy-20(+)] I</i> <i>fpSi2[hsp-16.2p::lox::degron::dam::rpb-6::unc-54 3'UTR; unc-119(+)] II</i>

IS3653	This study	<i>bqSi196[hsp-16.41p::gfp::myc::dam; unc-119(+)] II</i> <i>iirls25[elt-2p::nls::GFP::lacZ + rol-6(su1006)] V</i>
IS3687	This study	<i>fpSi2[hsp-16.2::lox::degron::dam::rpb-6::unc-54 3'UTR; unc-119(+)] II</i> <i>iirls25[elt-2p::nls::gfp::lacZ + rol-6(su1006)] V</i>
SV1439	CGC	<i>heSi142[elt-2p::elg-13nls::Cre::tbb-2 3'UTR] X</i>
SV1461	CGC	<i>heSi148[myo-3p::elg-13nls::Cre::tbb-2 3'UTR] X</i>
DAG827	This study	<i>domSi827[sdf-9p::Cre::tbb-2 3'UTR; unc-119(+)] X</i>
PMW641	This study	<i>ubsSi40[hsp-16.2::lox::mcherry::lox::degron::gfp::dam::unc-54 3'UTR; unc-119(+)] IV</i>
DAG958	This study	<i>domSi958[hsp-16.2p::lox::mCherry::lox::degron::dam::rpb-6::unc54 3'UTR; unc-119(+)] II</i>
IS3568	This study	<i>heSi142[elt-2p::elg-13nls::Cre::tbb-2 3'UTR] X;</i> <i>domSi958[unc-119(+)]hsp-16.2p::lox::mCherry::lox::degron::dam::rpb-6::unc54 3'UTR] II</i>
PMW748	This study	<i>heSi148[myo-3p::elg-13nls::Cre::tbb-2 3'UTR] X ;</i> <i>domSi958[hsp-16.2p::lox::mCherry::lox::degron::dam::rpb-6::unc54 3'UTR; unc-119(+)] II</i>
DAG879	This study	<i>domSi827[sdf-9p::Cre::tbb-2 3'UTR; unc-119(+)] X</i> <i>ubsSi40[hsp-16.41::lox::mcherry::lox::degron::gfp::dam::unc-54 3'UTR; unc-119(+)] IV</i>
DAG976	This study	<i>heSi148[myo-3p::elg-13nls::Cre::tbb-2 3'UTR] ttTi14042 X</i> <i>domSi958[hsp-16.2p::lox::mCherry::lox::degron::dam::rpb-6::unc54 3'UTR; unc-119(+)] II</i>
DAG1042	This study	<i>domSi827[sdf-9p::Cre::tbb-2 3'UTR; unc-119(+)] X</i> <i>domSi958[hsp-16.2p::lox::mCherry::lox::degron::dam::rpb-6::unc54 3'UTR; unc-119(+)] II</i>

DAG1043	This study	<i>heSi142[elt-2p::elg-13nls::Cre::tbb-2 3'UTR] X ubsSi40[hsp-16.41::lox:mcherry::lox::degron::gfp::dam::unc-54 3'UTR; unc-119(+)] IV</i>
DAG1256-1257	This study	<i>domEx1256-1257[asic-1p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
DAG1258-1259	This study	<i>domEx1258-1259[dhs-17p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
DAG1260-1261	This study	<i>domEx1260-1261[mab-9p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
DAG1262-1263	This study	<i>domEx1262-1263[twk-39p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
DAG1264-1265	This study	<i>domEx1264-1265[lgc-36p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
DAG1266-1267	This study	<i>domEx1266-1267[F14H8.2p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
DAG1268-1269	This study	<i>domEx1268-1269[C06A1.3p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
DAG1270	This study	<i>domEx1270[asp-9p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
DAG1271-1272	This study	<i>domEx1271-1272[B0034.5p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
DAG1273-1274	This study	<i>domEx1273-1274[F52E1.5::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
DAG1275-1276	This study	<i>domEx1275-1276[T22E5.6p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>

DAG1277-1278	This study	<i>domEx1277-1278[nlp-15p::mNeonGreen::unc-54 3' UTR, sdf-9p::egl-13NLS::wormScarlet::unc-54 UTR, unc-122p::RFP]</i>
N2	CGC	Wild type Bristol N2

Table S2
Plasmid collection

Plasmid name	Source	Plasmid information	Backbone
#372	This study	<i>hsp-16.41p::degron::dam::ama-1::unc-54 3'UTR</i>	pCFJ151
#509	This study	<i>hsp-16.2p::degron::dam::rpb-6::unc54 3'UTR</i>	pCFJ151
#417	This study	<i>hsp-16.2p::lox::mCherry::lox::degron::dam::ama-1::unc-54 3' UTR</i>	pCFJ151
#418	This study	<i>hsp-16.2p::lox::mCherry::lox::degron::gfp::dam::unc-54 3' UTR</i>	pCFJ151
#434	This study	<i>hsp-16.2p::lox::mCherry::lox::degron::dam::rpb-2::unc-54</i>	pCFJ151
pSJ4646/ #503	This study	<i>hsp-16.2p::lox::mCherry::lox::degron::dam::rpb-6::unc-54 3'UTR</i>	pCFJ151
pSR32	Sander Van den Heuvel Lab	<i>pie-1p::Cre</i>	pCFJ355
dg9	Miyabayashi 1999	<i>unc-122p::rfp</i>	
dg353	Hostettler 2017	<i>mNeonGreen</i> Entry (slot2)	pDON221
dg651	Marques 2019	<i>egl-13nls::wrmScarlet</i> Entry (slot2)	pDON221
dg800	This study	<i>sdf-9p::Cre::tbb-2 3'UTR</i>	pCFJ355
dg801	This study	<i>sdf-9p</i> Entry (slot1)	pDONR-P4-P1R
dg802	This study	<i>asic-1p</i> Entry (slot1)	pDONR-P4-P1R

dg803	This study	<i>dhs-17p</i> Entry (slot1)	pDONR-P4-P1R
dg804	This study	<i>mab-9p</i> Entry (slot1)	pDONR-P4-P1R
dg805	This study	<i>twk-39p</i> Entry (slot1)	pDONR-P4-P1R
dg806	This study	<i>lgc-36p</i> Entry (slot1)	pDONR-P4-P1R
dg807	This study	<i>F14H8.2p</i> Entry (slot1)	pDONR-P4-P1R
dg808	This study	<i>C06A1.3p</i> Entry (slot1)	pDONR-P4-P1R
dg809	This study	<i>asp-9p</i> Entry (slot1)	pDONR-P4-P1R
dg810	This study	<i>B0034.5p</i> Entry (slot1)	pDONR-P4-P1R
dg811	This study	<i>F52E1.5p</i> Entry (slot1)	pDONR-P4-P1R
dg812	This study	<i>T22E5.6p</i> Entry (slot1)	pDONR-P4-P1R
dg813	This study	<i>nlp-15p</i> Entry (slot1)	pDONR-P4-P1R
dg814	This study	<i>sdf-9p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg815	This study	<i>sdf-9p::egl-13NLS::wrmScarlet::unc-54 3' UTR</i>	pDEST-R4-R3
dg816	This study	<i>asic-1p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg817	This study	<i>dhs-17p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg818	This study	<i>mab-9p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3

dg819	This study	<i>twk-39p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg820	This study	<i>lgc-36p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg821	This study	<i>F14H8.2p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg822	This study	<i>C06A1.3p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg823	This study	<i>asp-9p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg824	This study	<i>B0034.5p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg825	This study	<i>F52E1.5p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg826	This study	<i>T22E5.6p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
dg827	This study	<i>nlp-15p::mNeonGreen::unc-54 3' UTR</i>	pDEST-R4-R3
pMH473	Gift from Marc Hammarlund	<i>unc-54 3' UTR</i> Entry (slot3)	pDONR- P2R-P3

Table S3

Primers for cloning of promoters used for the transcriptional reporter analysis of XXX cell-transcribed candidate genes.

All primers start with Gateway cloning sequences, followed with the indicated sequence.

(forward: ggggacaactttgtatagaaaagtt; reverse: ggggactgctttttgtacaaacttg)

Gene name	Forward primer	Reverse primer	Size (bp)
<i>sdf-9</i>	<i>gtcgactgtcaatgtcgc</i>	<i>ccttcatttgaaaataatatactagtcttag</i>	3497
<i>asic-1</i>	<i>gacacactgtacgggatacctt</i>	<i>tttggtggcctgaaatttgatcaa</i>	1992
<i>dhs-17</i>	<i>gataacacattgacccctccac</i>	<i>ttctacaaattacagacgagacaactg</i>	1969
<i>mab-9</i>	<i>gccatggaacccgaattttgcat</i>	<i>cttatggaataagaagctccggga</i>	2026
<i>twk-39</i>	<i>ttgtcgggtttgctagttcct</i>	<i>ttcagctcgtctatttgactcca</i>	2006
<i>lgc-36</i>	<i>gcatcaaggaactgcttcaca</i>	<i>tggaattcgcgatgaagcattgtgtg</i>	560
<i>F14H8.2</i>	<i>agagttcaaaaagggtgtcccaa</i>	<i>agagttcaaaaagggtgtcccaa</i>	1779
<i>C06A1.3</i>	<i>ttgtctggcgtgatttggtac</i>	<i>atgaagacgctgctaatacctctttc</i>	660
<i>asp-9</i>	<i>tgacctatttgaactgctg</i>	<i>tcagctcaactatcaaaatttaacac</i>	1668
<i>B0034.5</i>	<i>taatgcgtgataatgatgagac</i>	<i>taatgcgtgataatgatgagac</i>	1992
<i>F52E1.5</i>	<i>tccaattttatgctgtgagt</i>	<i>ggcagggtatttaaacggt</i>	1580
<i>T22E5.6</i>	<i>tgcaagttaattttcgttc</i>	<i>tgtgaaaagctgaaatacag</i>	2037
<i>nlp-15</i>	<i>tggtcaagtacataccaggggtatg</i>	<i>cgttatgtgtgtctctttcg</i>	2186

Table S4 (excel sheet)

Averaged gene-level values for RNA polymerase signal (polii), GATC number and false discovery rate (FDR) for all blastomere libraries.

Table S5 (excel sheet)

Transcribed genes analysis determined by RAPID. Genes for each tissue are listed. Detected and unique genes, and Gene ontology attributes are tabulated in different sheets.

Table S6 (excel sheet)

List of categories found in the functional enrichment analysis for genes detected with different methods in the intestine and muscle.

Table S7 (excel sheet)

Comparison between the different methods for cell-type specific transcriptome profiling.

Table S8 (excel sheet)

Sequencing depth for the RAPID libraries.

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Figure 1

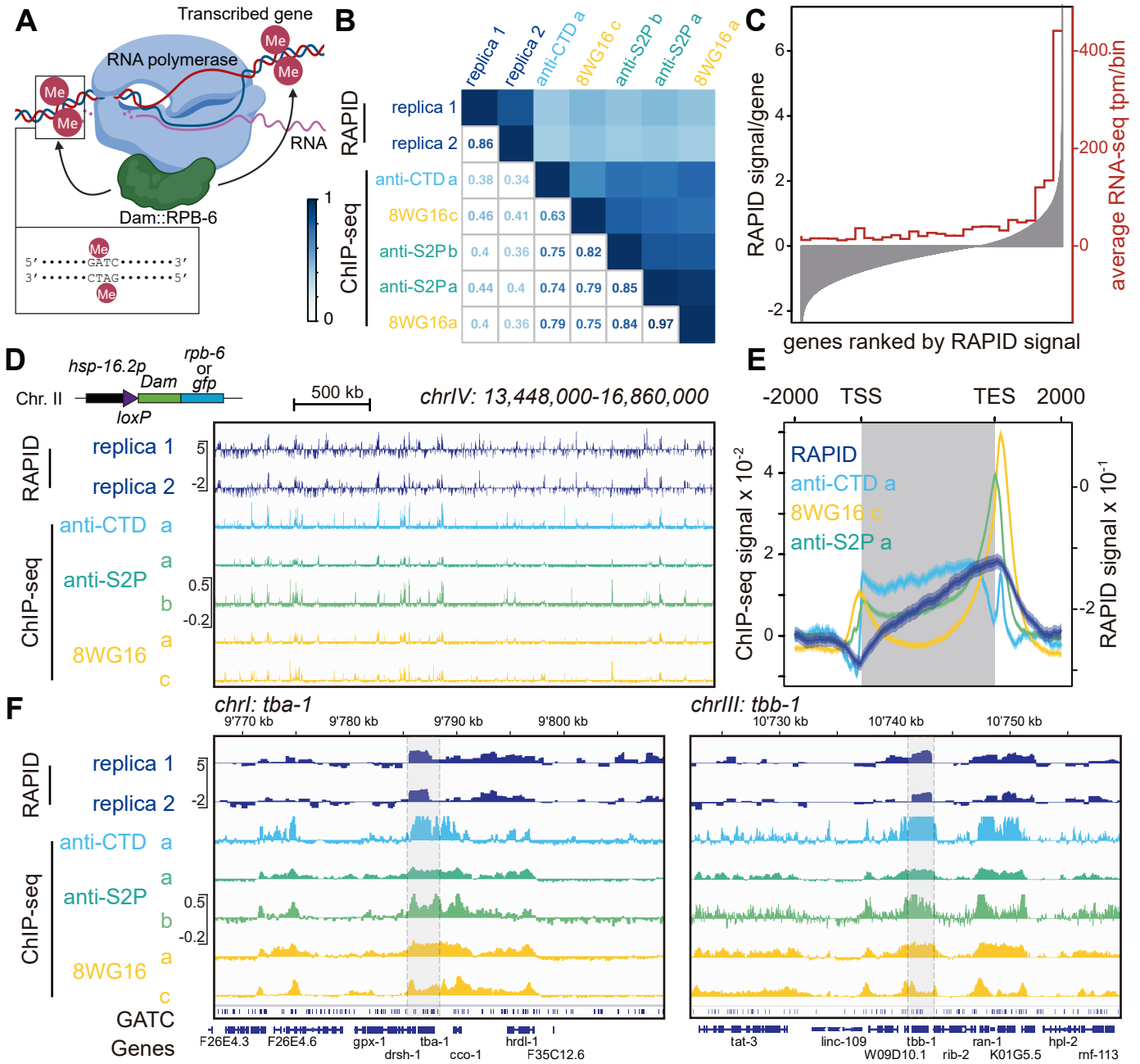
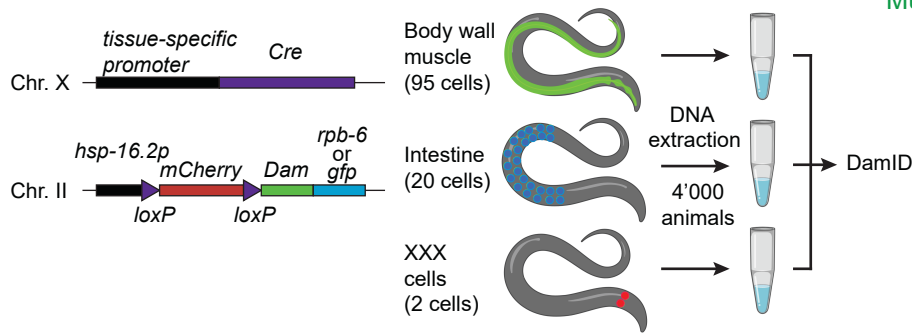
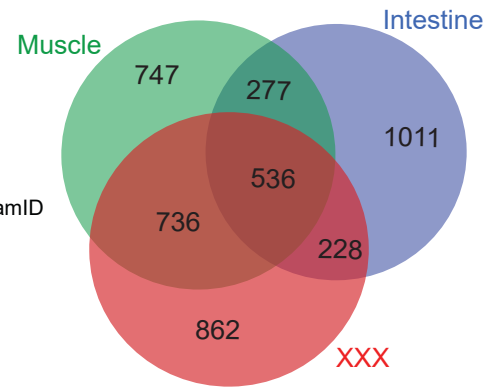


Figure 2

A Tissue-specific Cre recombination and Dam expression



B



C

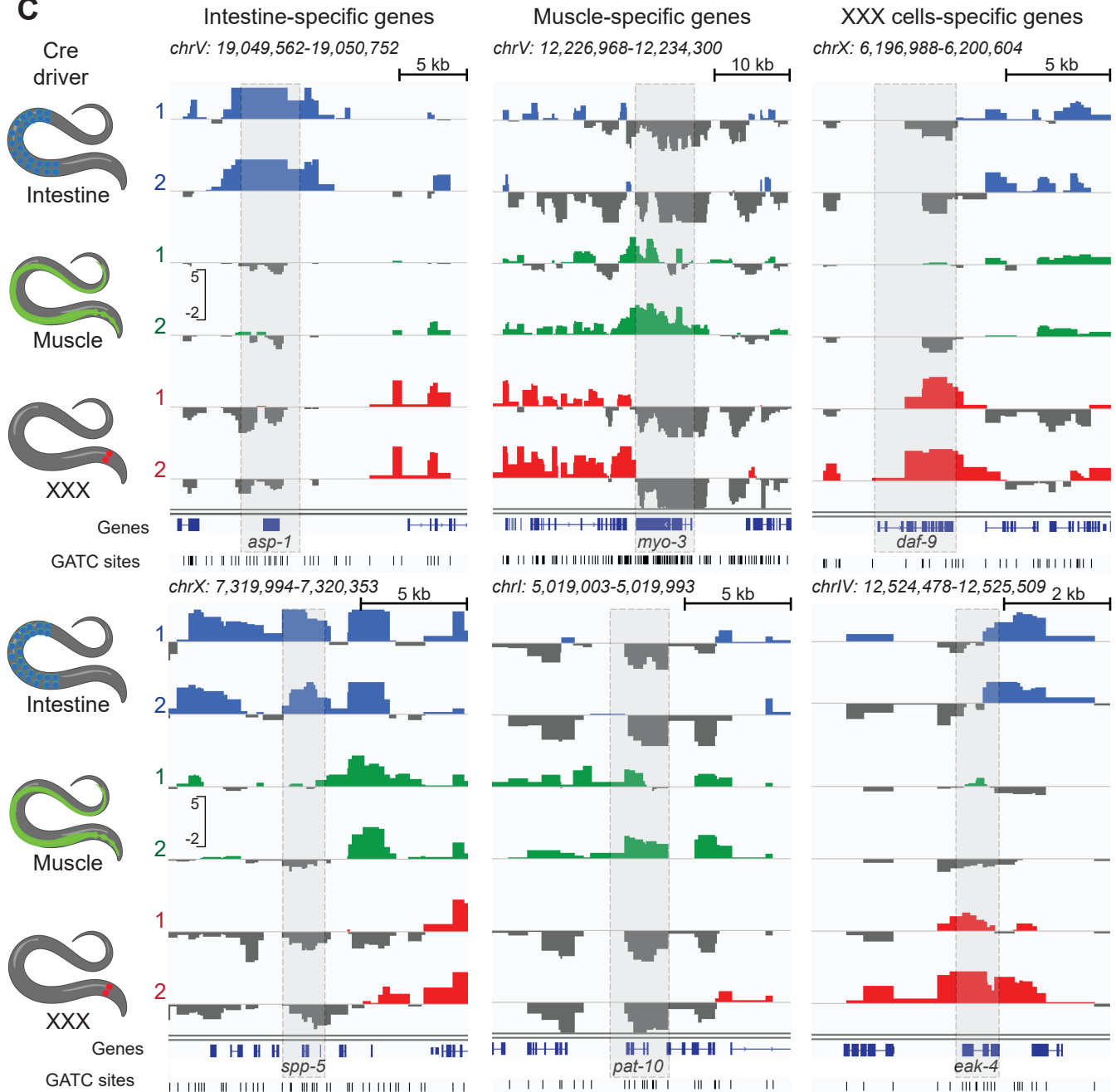


Figure 3

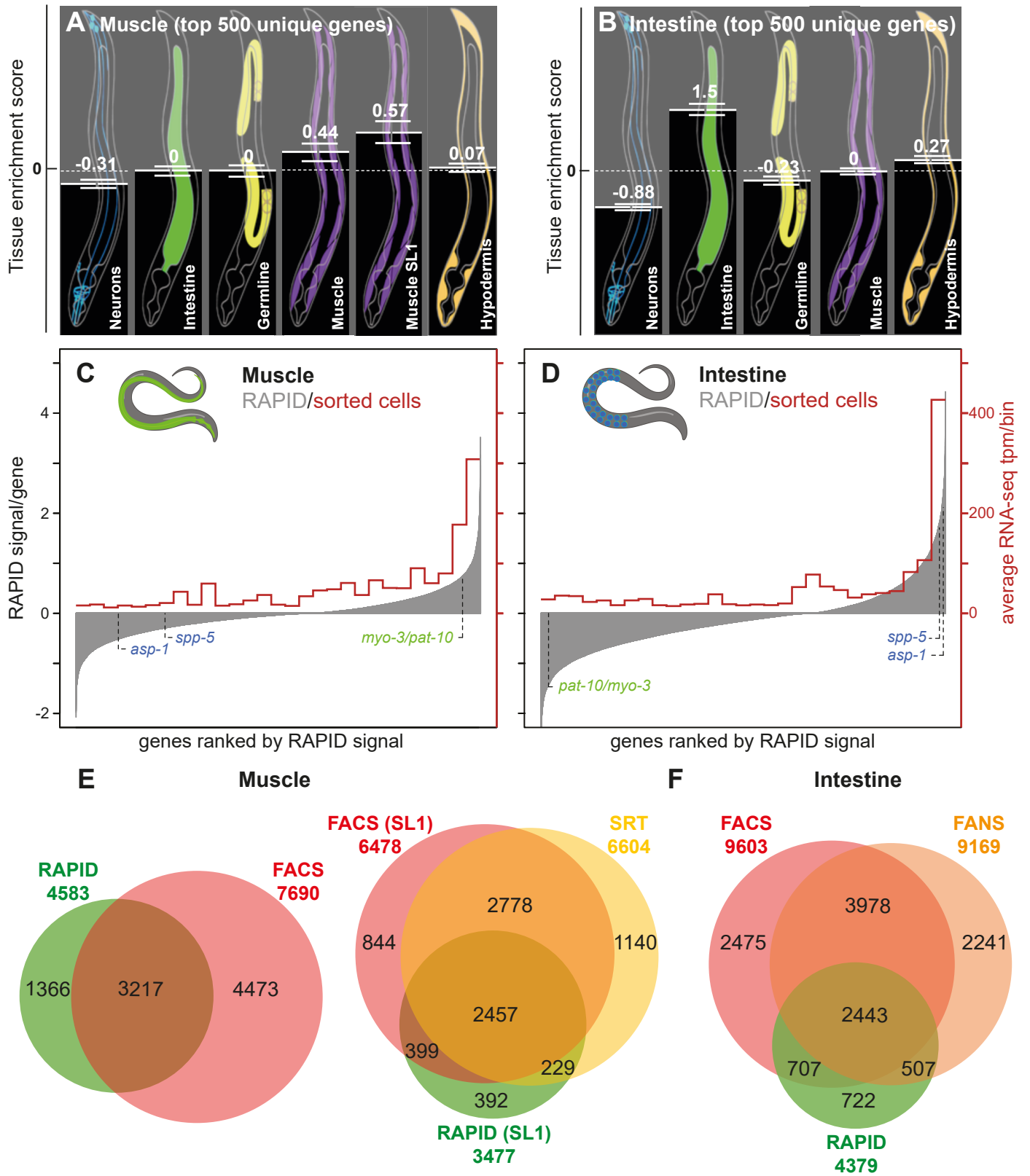
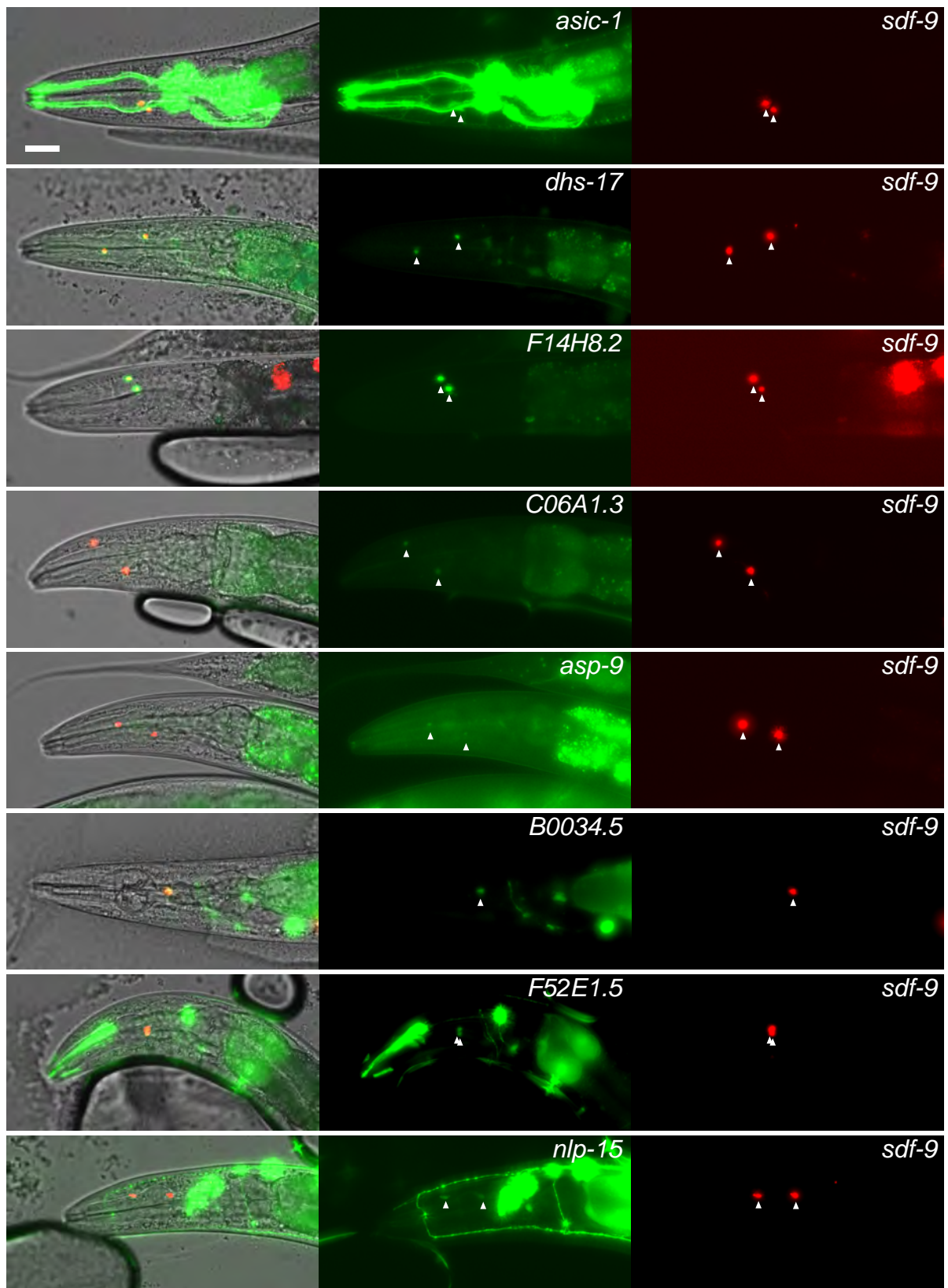
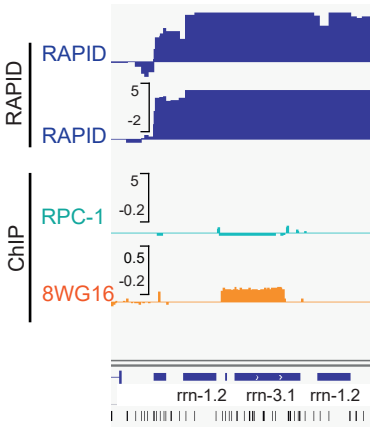


Figure 4

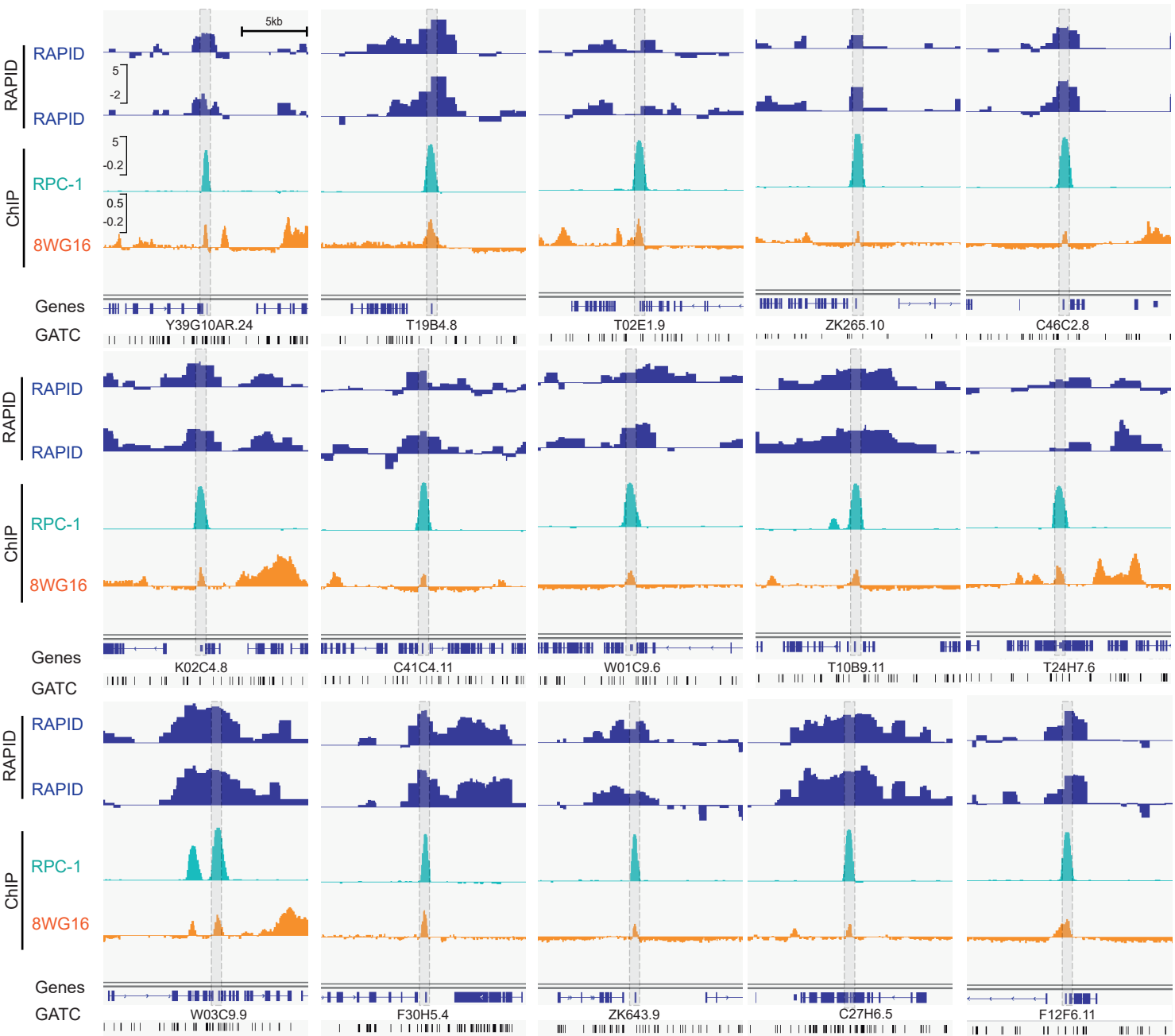


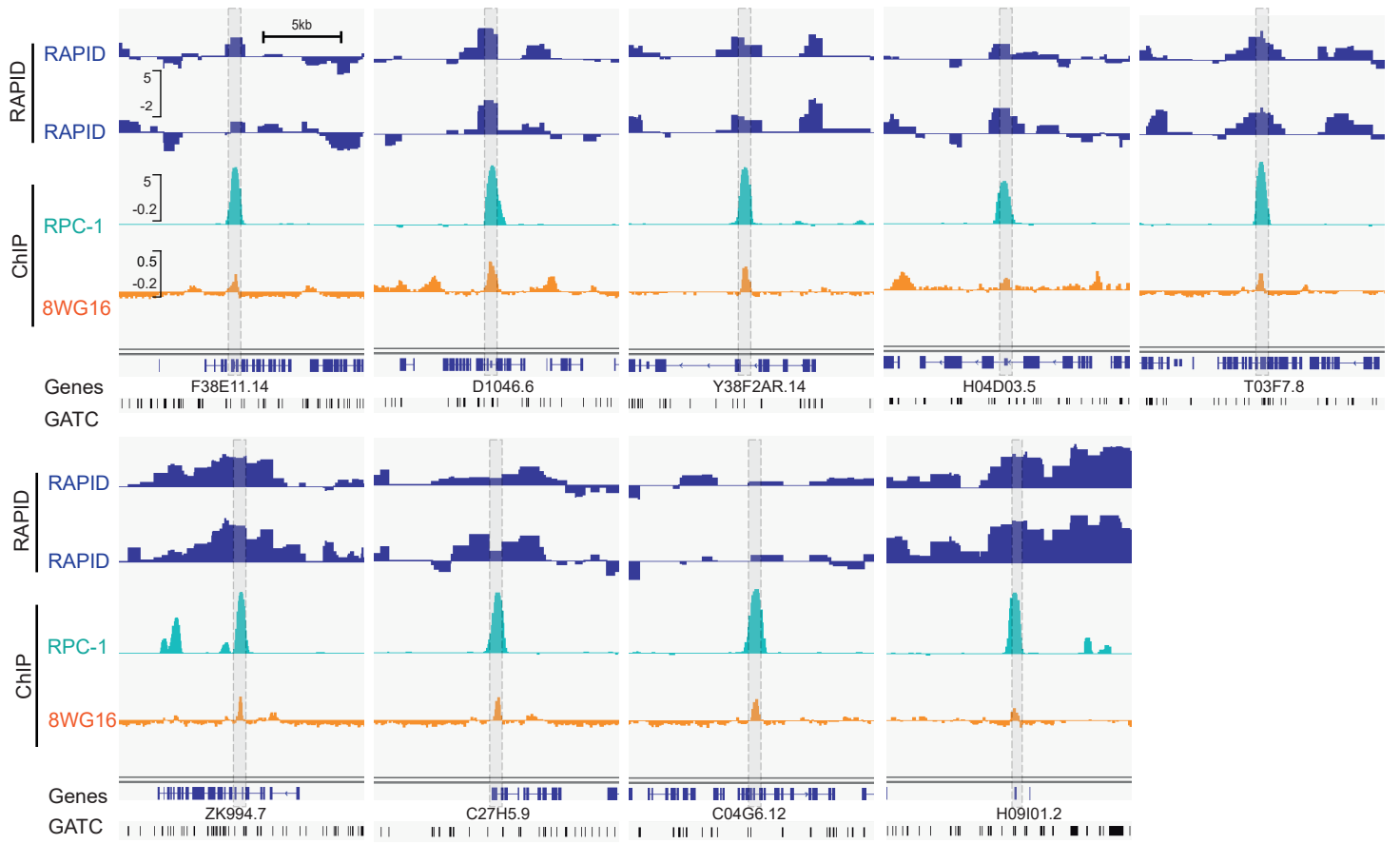
A RAPID signal at rDNA repeats

Figure S2

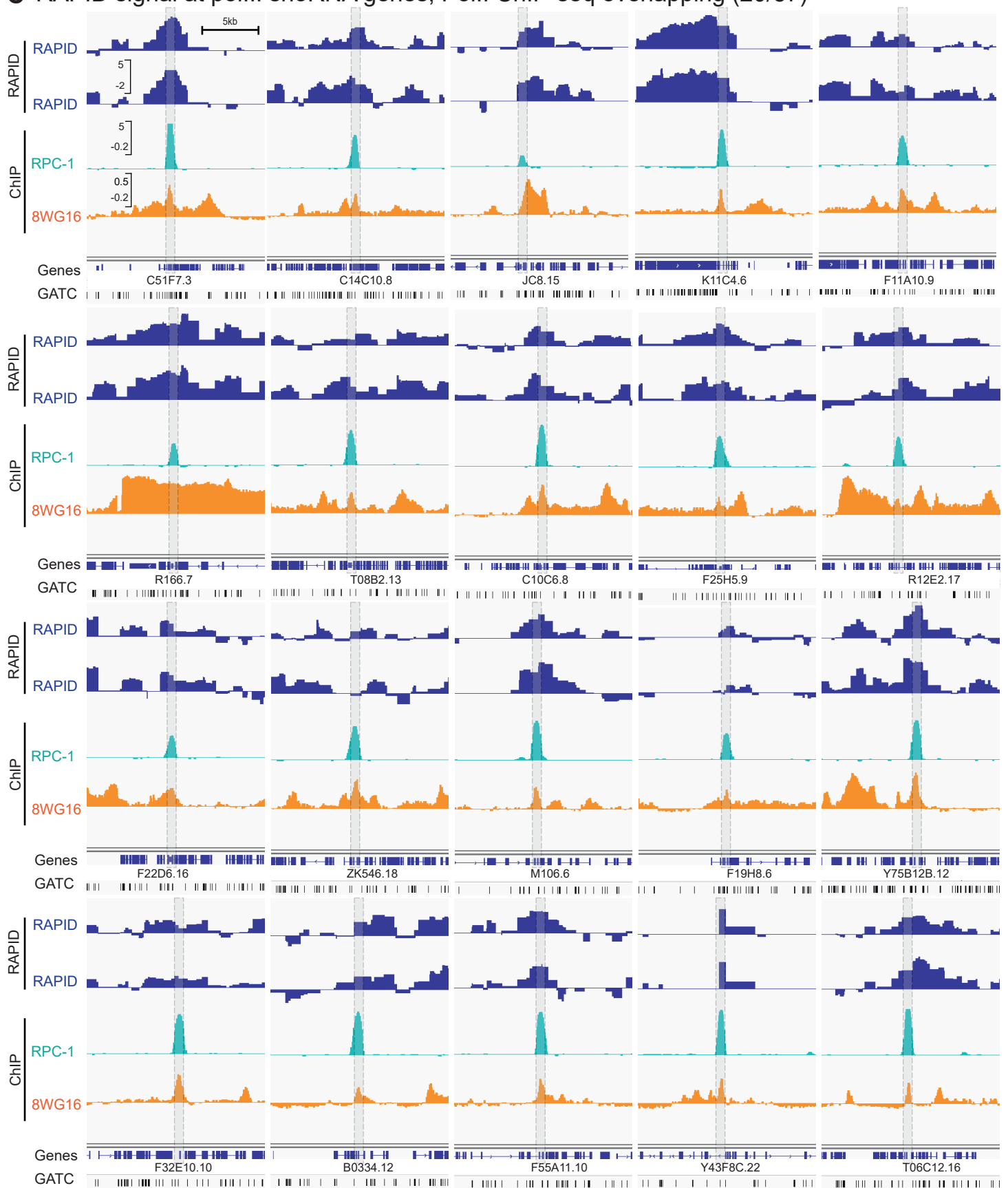


B RAPID signal at polIII snoRNA genes; no PolIII overlapping (24/57)





C RAPID signal at polIII snoRNA genes; PolII ChIP-seq overlapping (20/57)

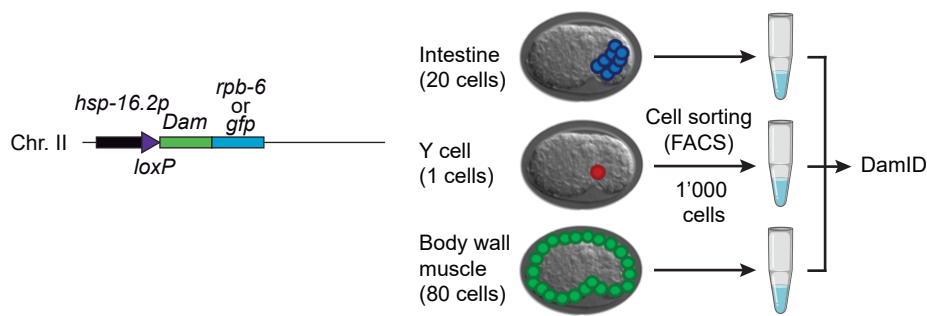


D No RAPID signal (13/57)

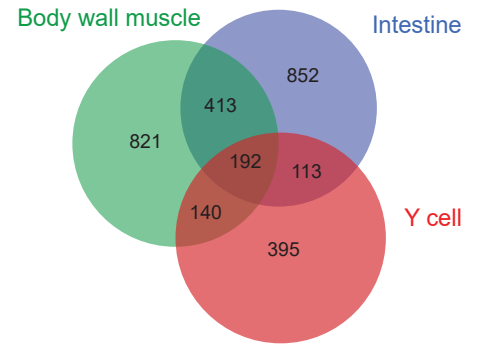


Figure S3

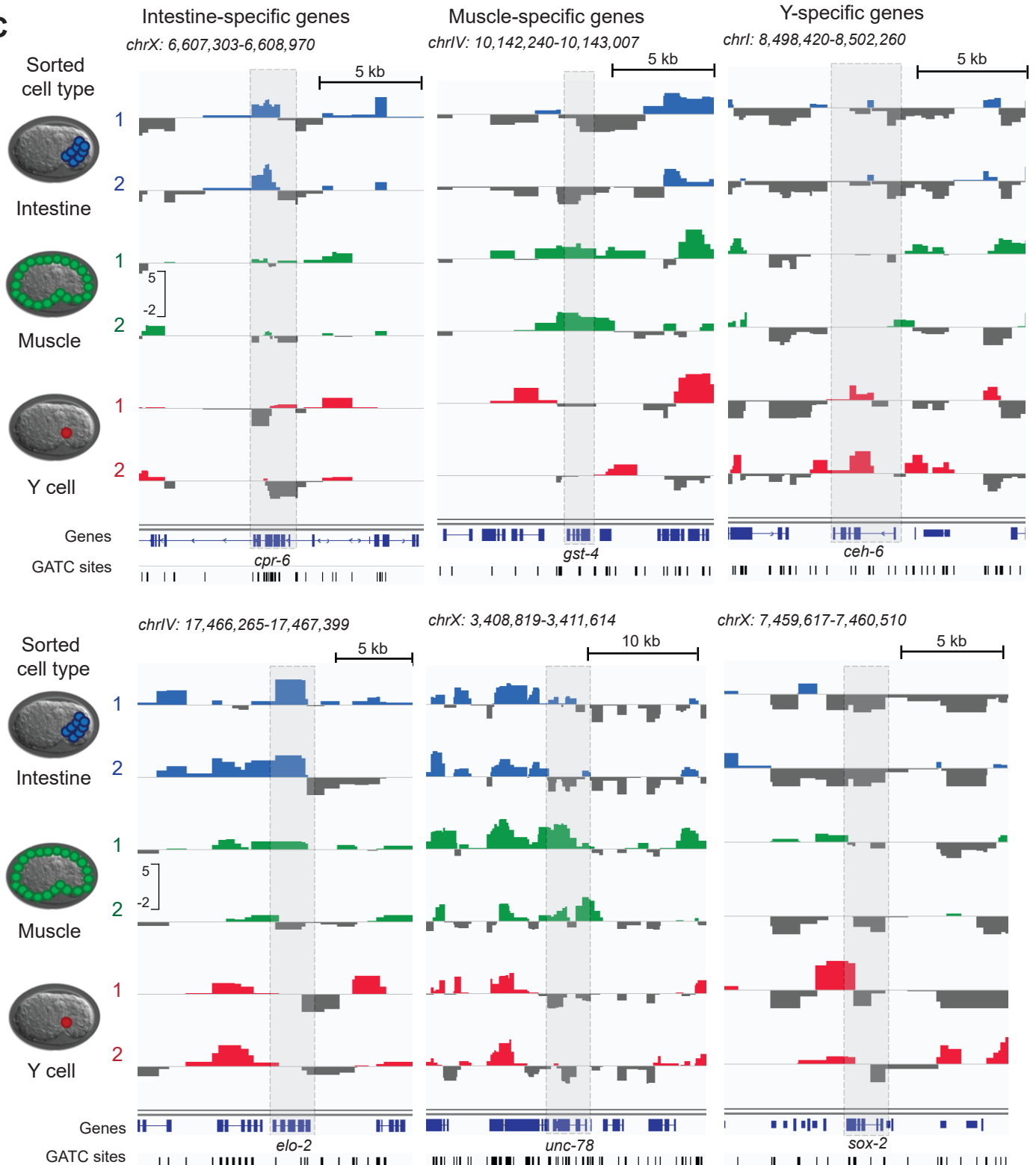
A Tissue-specific sorted cells and Dam expression



B



C



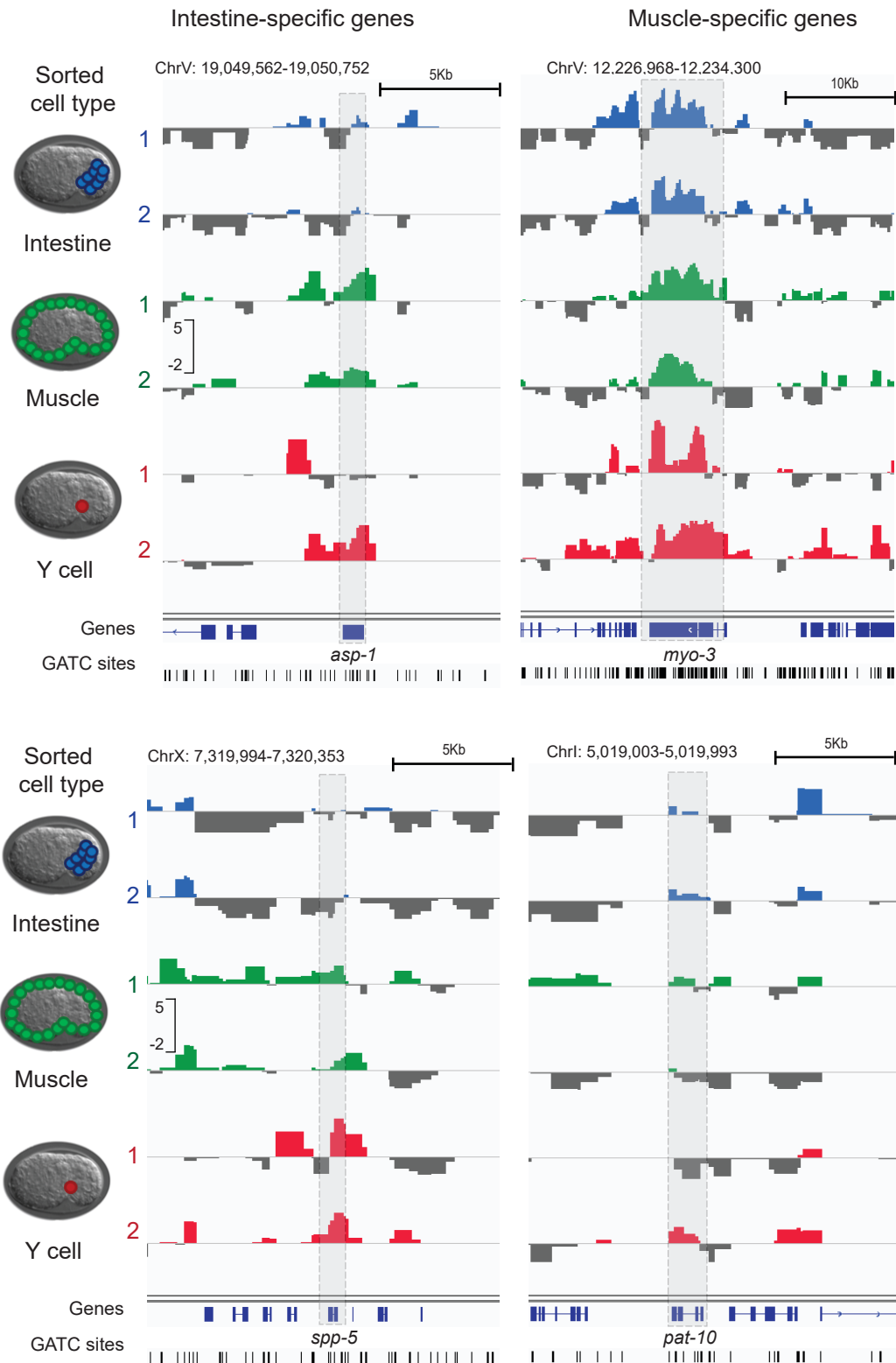
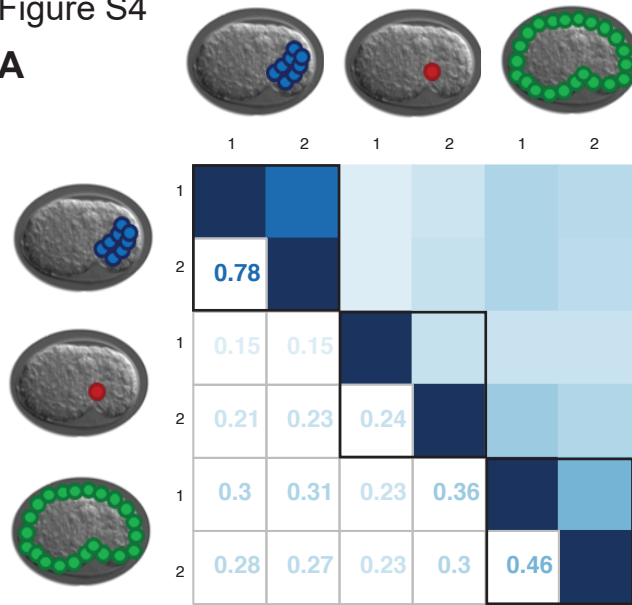
D

Figure S4

A



B

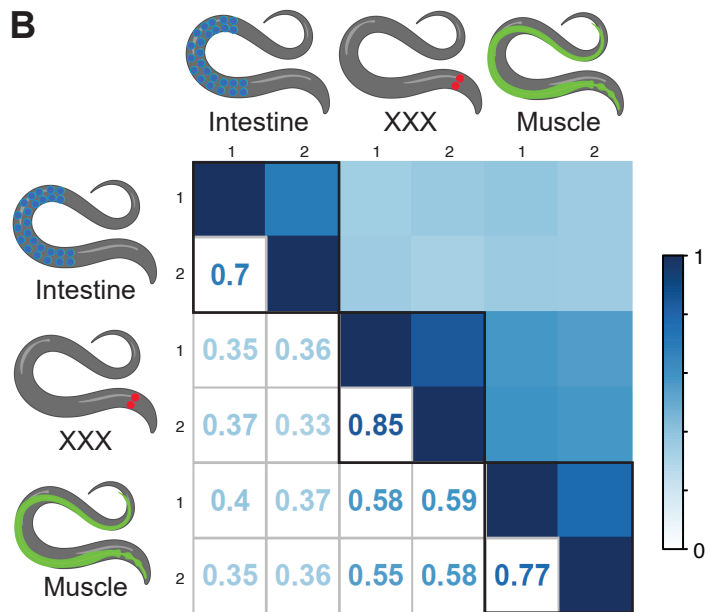
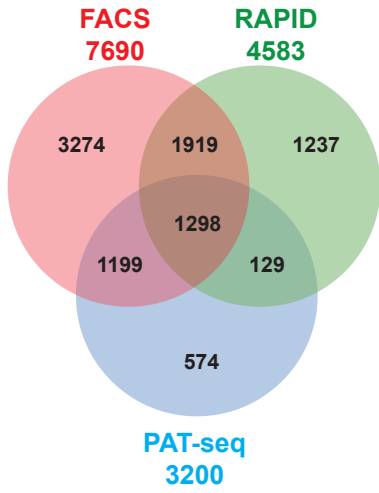
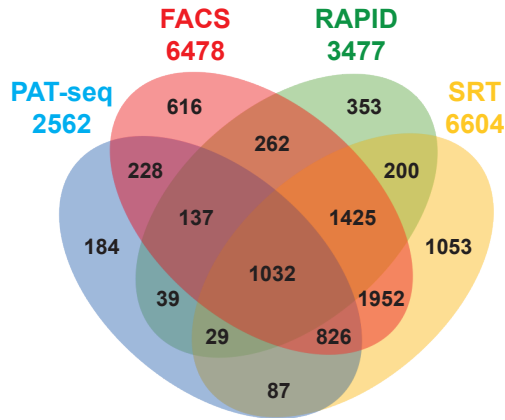


Figure S5

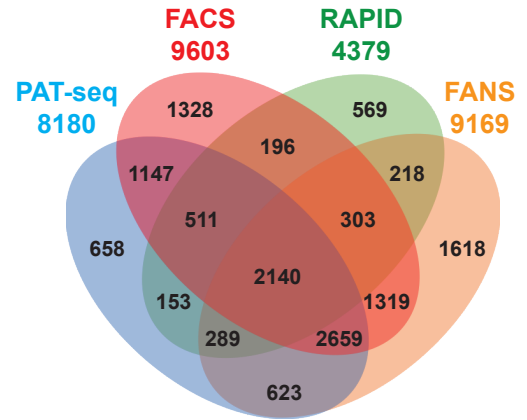
A Muscle



B Muscle (SL1)



C Intestine



D

Muscle	In common with		
	RAPID	FACS-seq	PAT-seq
Fraction of RAPID genes	100%	70%	31%
Fraction of FACS-seq genes	42%	100%	32%
Fraction of PAT-seq genes	45%	78%	100%

Muscle (SL1)	In common with			
	RAPID	FACS-seq	PAT-seq	SRT
Fraction of RAPID genes	100%	82%	36%	77%
Fraction of FACS-seq genes	44%	100%	34%	81%
Fraction of PAT-seq genes	48%	87%	100%	77%
Fraction of SRT genes	41%	79%	30%	100%

Intestine	In common with			
	RAPID	FACS-seq	PAT-seq	FANS-seq
Fraction of RAPID genes	100%	72%	71%	67%
Fraction of FACS-seq genes	33%	100%	67%	67%
Fraction of PAT-seq genes	38%	79%	100%	70%
Fraction of FANS-seq genes	32%	70%	62%	100%

E

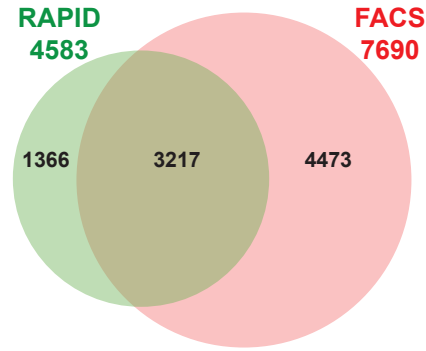
Muscle	Cross-method consistency		
	Not detected by other methods	Detected by one other method	Detected by the two other methods
Fraction of RAPID genes	27%	45%	28% $\Sigma=73\%$
Fraction of FACS-seq genes	43%	40%	17% $\Sigma=57\%$
Fraction of PAT-seq genes	18%	41%	41% $\Sigma=82\%$

Muscle (SL1)	Cross-method consistency			
	Not detected by other methods	Detected by one other method	Detected by two other methods	Detected by the three other methods
Fraction of RAPID genes	10%	14%	46%	30% $\Sigma=90\%$
Fraction of FACS-seq genes	9%	38%	37%	16% $\Sigma=91\%$
Fraction of PAT-seq genes	7%	14%	39%	40% $\Sigma=93\%$
Fraction of SRT genes	16%	34%	34%	16% $\Sigma=84\%$

Intestine	Cross-method consistency			
	Not detected by other methods	Detected by one other method	Detected by two other methods	Detected by the three other methods
Fraction of RAPID genes	13%	13%	25%	49% $\Sigma=87\%$
Fraction of FACS-seq genes	14%	28%	36%	22% $\Sigma=86\%$
Fraction of PAT-seq genes	8%	24%	42%	26% $\Sigma=92\%$
Fraction of FANS-seq genes	18%	24%	35%	23% $\Sigma=82\%$

Muscle comparison

A RAPID vs FACS



B RAPID vs PAT-Seq

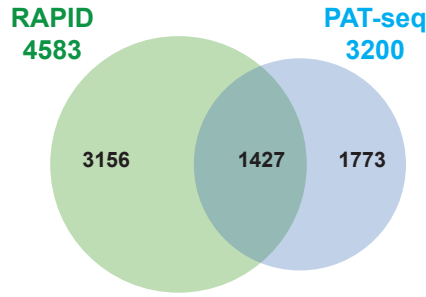
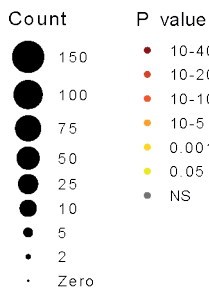
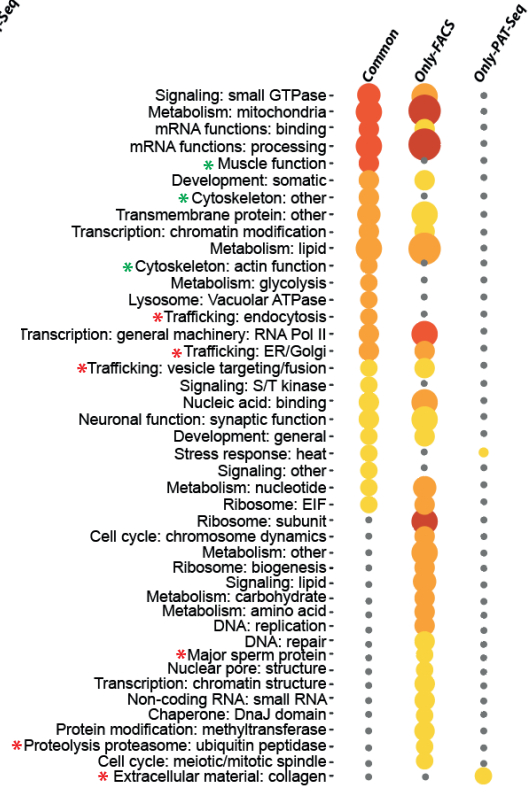
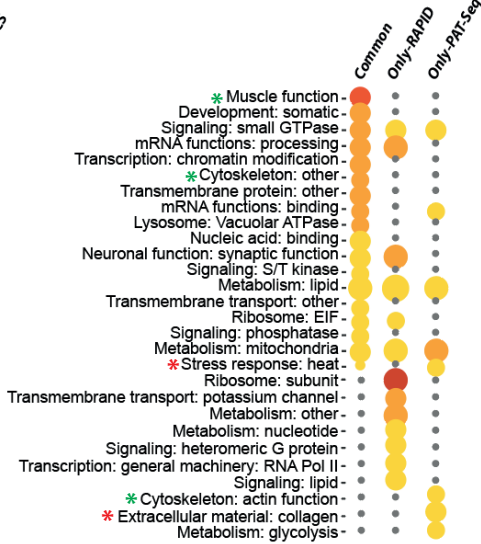
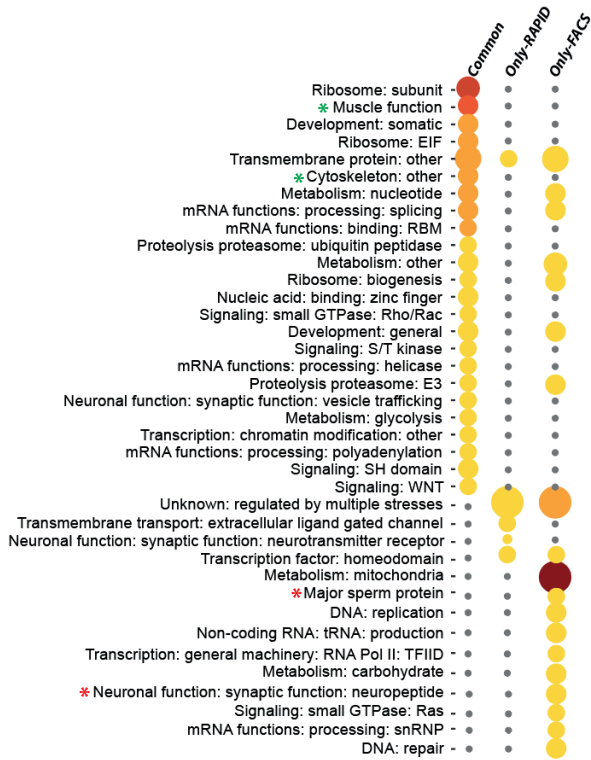
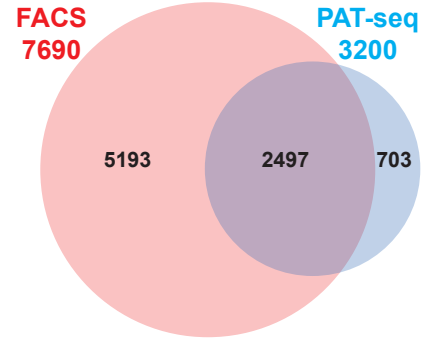


Figure S6

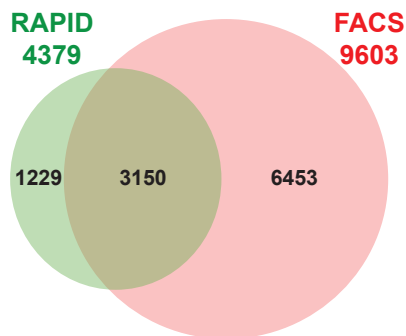
C FACS vs PAT-Seq



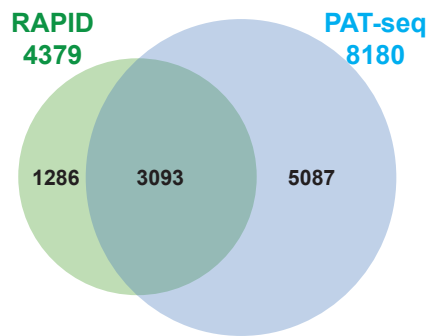
Intestine comparison

Figure S7

A RAPID vs FACS



B RAPID vs PAT-Seq



C FACS vs PAT-Seq

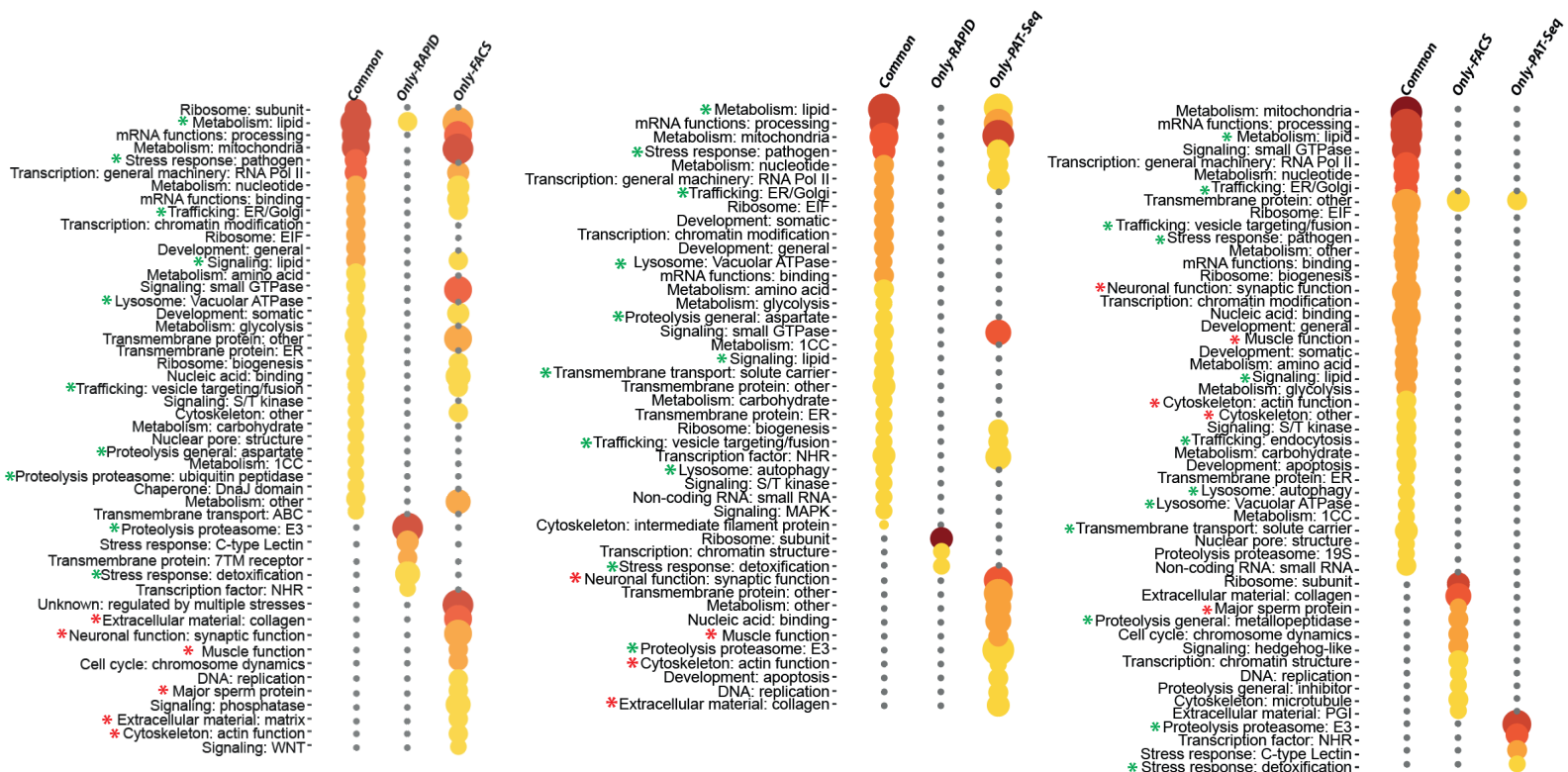
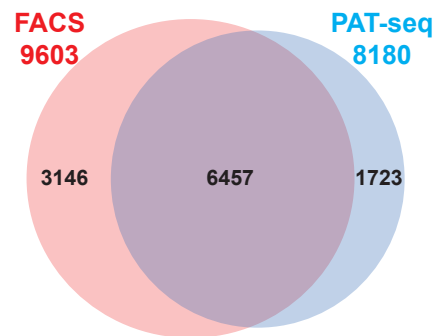


Figure S8

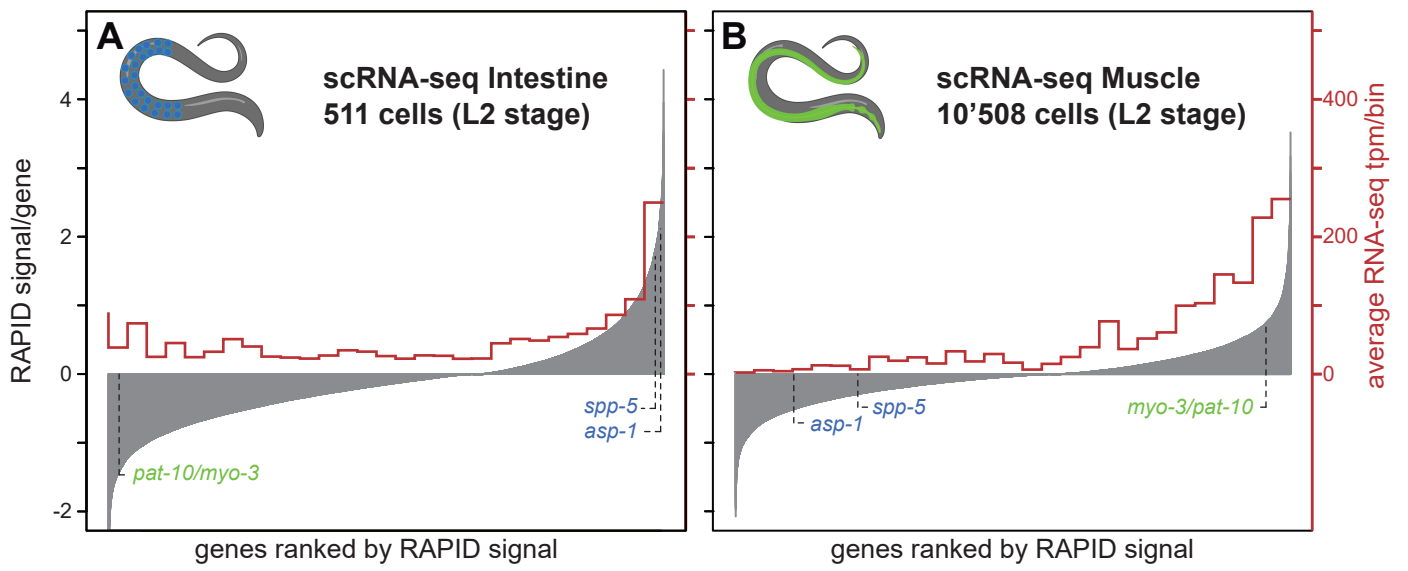


Figure S9

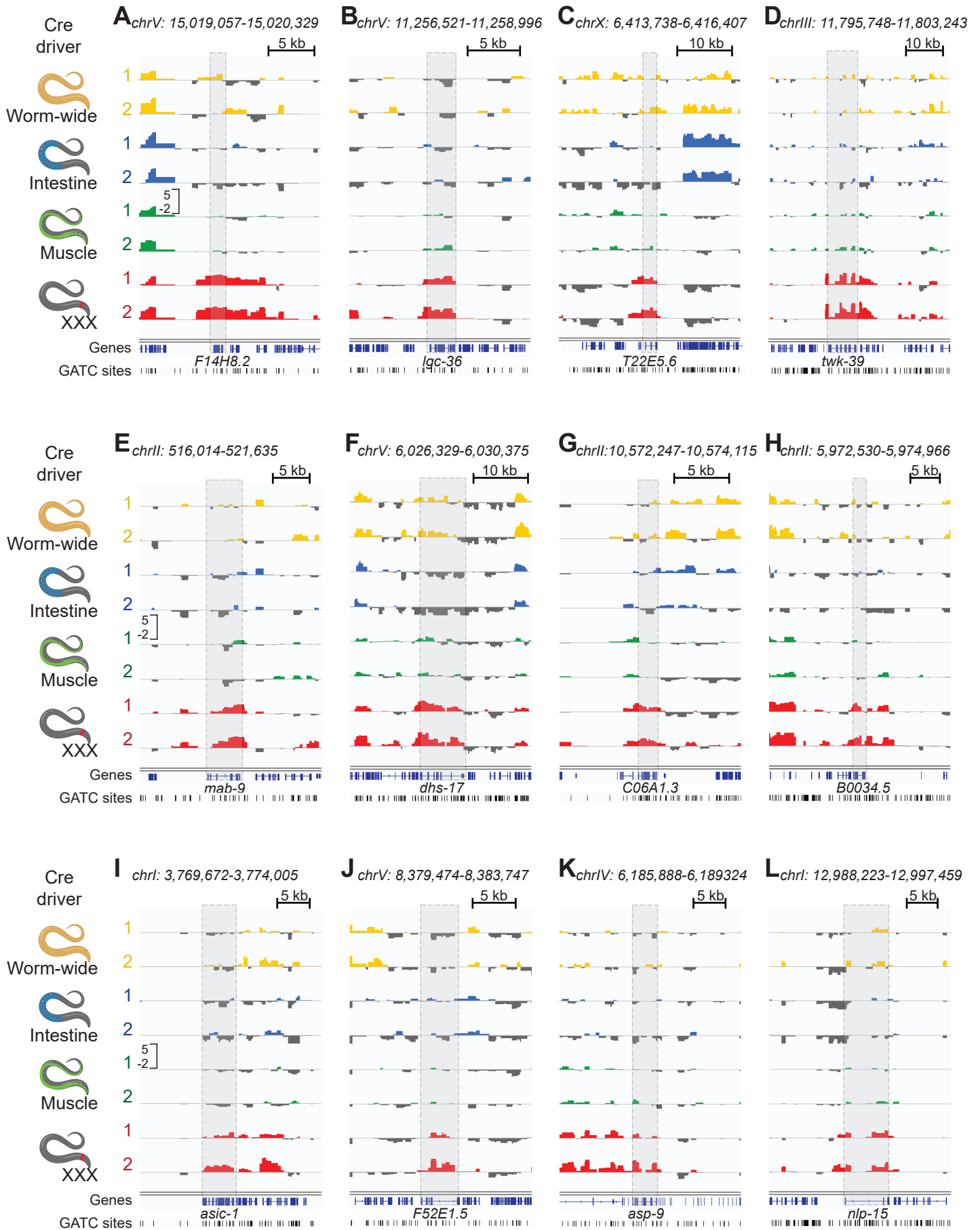
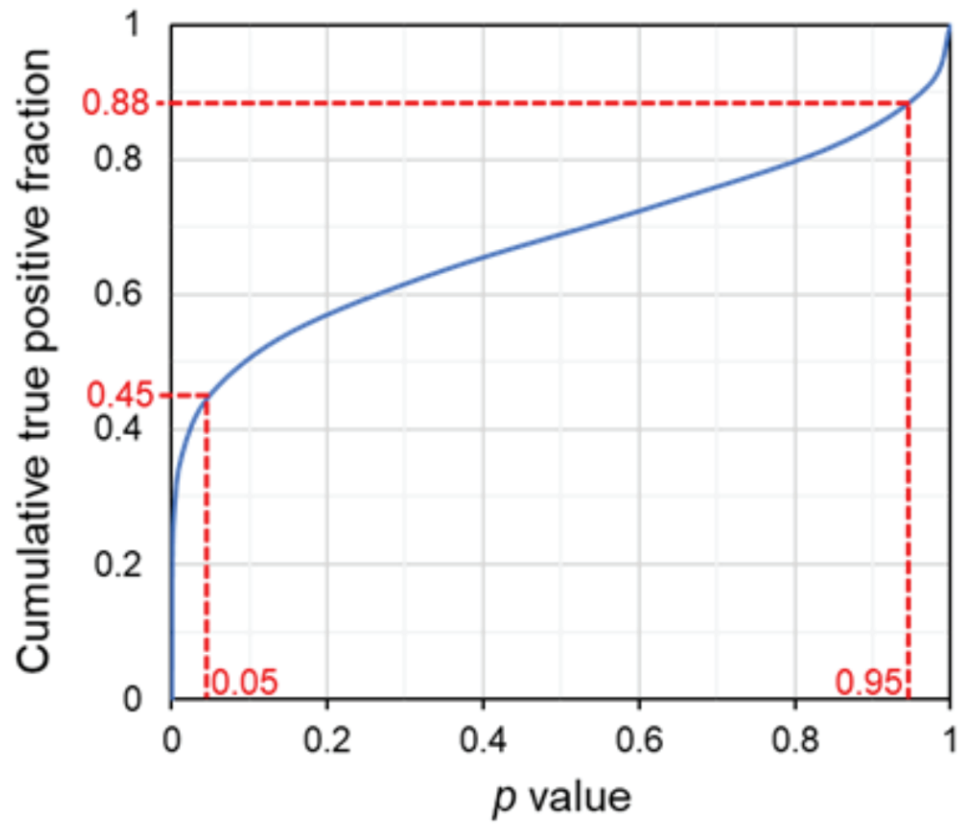


Figure S10



Supplementary table 6, Sheet 1. Functional enrichment analysis

COMMON				
Category	RGS	AC	PValue	Bonferroni
Ribosome: subunit	68	92	7.06E-29	1.50E-26
Metabolism: lipid	160	525	6.37E-28	1.35E-25
mRNA functions: processing	111	279	1.71E-27	3.63E-25
Metabolism: mitochondria	116	343	7.90E-24	1.68E-21
Stress response: pathogen	62	177	3.69E-14	7.81E-12
Transcription: general machinery: RNA Pol	51	124	4.53E-14	9.60E-12
Metabolism: nucleotide	44	111	6.15E-12	1.30E-09
mRNA functions: binding	40	103	8.80E-11	1.86E-08
Trafficking: ER/Golgi	36	87	1.84E-10	3.91E-08
Transcription: chromatin modification	42	117	2.19E-10	4.65E-08
Ribosome: EIF	29	60	6.31E-10	1.34E-07
Development: general	33	81	1.40E-09	2.96E-07
Signaling: lipid	34	102	4.66E-08	9.87E-06
Metabolism: amino acid	30	82	5.30E-08	1.12E-05
Signaling: small GTPase	48	183	5.96E-08	1.26E-05
Lysosome: Vacuolar ATPase	16	22	7.05E-08	1.49E-05
Development: somatic	35	122	5.96E-07	0.0001263
Metabolism: glycolysis	18	37	9.77E-07	0.0002071
Transmembrane protein: other	63	308	1.38E-06	0.000293
Transmembrane protein: ER	14	24	3.14E-06	0.0006663
Ribosome: biogenesis	20	53	5.64E-06	0.0011962
Nucleic acid: binding	49	229	6.61E-06	0.0014012
Trafficking: vesicle targeting/fusion	22	65	8.21E-06	0.0017411
Signaling: S/T kinase	22	66	1.00E-05	0.0021217
Cytoskeleton: other	24	77	1.03E-05	0.0021941
Metabolism: carbohydrate	25	83	1.12E-05	0.0023711
Nuclear pore: structure	14	28	1.21E-05	0.0025626
Proteolysis general: aspartate	15	33	1.45E-05	0.0030691
Metabolism: 1CC	14	30	2.21E-05	0.0046759
Chaperone: DnaJ domain	14	31	2.93E-05	0.0062179
Proteolysis proteasome: ubiquitin peptida	14	31	2.93E-05	0.0062179
Metabolism: other	41	190	2.96E-05	0.0062651
Transmembrane transport: ABC	18	51	3.35E-05	0.0071068

is for genes detected in the intestine with different methods (RAPI

Only-RAPID				
Category	RGS	AC	PValue	Bonferroni
Unknown	549	8160	1.43E-23	1.84E-21
Proteolysis proteasome: E3	61	598	3.67E-10	4.74E-08
Stress response: C-type Lectin	34	257	8.82E-09	1.14E-06
Transmembrane protein: seven transmembran	95	1461	7.81E-06	0.0010071
Stress response: detoxification	20	151	8.56E-06	0.0011048
Transcription factor: NHR	26	259	3.90E-05	0.0050347
Metabolism: lipid	42	525	3.92E-05	0.0050603

D versus FACS)

Only-FACS				
Category	RGS	AC	PValue	Bonferroni
Unknown	2299	8160	8.45E-31	1.92E-28
Metabolism: mitochondria	188	343	4.08E-24	9.26E-22
Extracellular material: collagen	117	185	3.79E-19	8.61E-17
mRNA functions: processing	141	279	2.32E-16	5.27E-14
Signaling: small GTPase	107	183	6.16E-16	1.40E-13
Neuronal function: synaptic function	118	244	5.28E-13	1.20E-10
Transmembrane protein: other	136	308	1.82E-12	4.14E-10
Muscle function	49	62	2.56E-11	5.82E-09
Metabolism: lipid	190	525	1.49E-10	3.37E-08
Cell cycle: chromosome dynamics	44	65	7.60E-09	1.73E-06
Metabolism: other	85	190	1.28E-08	2.91E-06
Transcription: general machinery: RNA Pol	63	124	2.68E-08	6.09E-06
Development: somatic	61	122	6.79E-08	1.54E-05
DNA: replication	42	69	1.44E-07	3.26E-05
mRNA functions: binding	52	103	4.73E-07	0.000107
Major sperm protein	26	31	5.00E-07	0.000114
Metabolism: nucleotide	54	111	7.03E-07	0.00016
Trafficking: ER/Golgi	46	87	7.92E-07	0.00018
Trafficking: vesicle targeting/fusion	38	65	1.14E-06	0.000259
Signaling: phosphatase	79	197	1.27E-06	0.000289
Signaling: lipid	49	102	2.91E-06	0.000661
Extracellular material: matrix	37	67	4.23E-06	0.000961
Ribosome: biogenesis	32	53	4.68E-06	0.001062
Nucleic acid: binding	84	229	9.61E-06	0.00218
Cytoskeleton: actin function	26	40	1.38E-05	0.003124
Cytoskeleton: other	38	77	2.23E-05	0.005068
Signaling: WNT	21	30	4.15E-05	0.00941

RGS

input genes are listed with mapped annotations

Supplementary table 4, Sheet 3. Tissue-enriched genes (genes significantly enriched in

Muscle	Intestine	Y cell
WBGene00003072	WBGene00001564	WBGene00013549
WBGene00004728	WBGene00007309	WBGene00010769
WBGene00006801	WBGene00003058	WBGene00021186
WBGene00001328	WBGene00005925	WBGene00006616
WBGene00011980	WBGene00020707	WBGene00002173
WBGene00006789	WBGene00012978	WBGene00018039
WBGene00019509	WBGene00010241	WBGene00008423
WBGene00022739	WBGene00017643	WBGene00022413
WBGene00002248	WBGene00020491	WBGene00003530
WBGene00010047	WBGene00017798	WBGene00003798
WBGene00007587	WBGene00000738	WBGene00010144
WBGene00009500	WBGene00012524	WBGene00011965
WBGene00004736	WBGene00012404	WBGene00016421
WBGene00002204	WBGene00017937	WBGene00010047
WBGene00001650	WBGene00015806	WBGene00004959
WBGene00004091	WBGene00022739	WBGene00008220
WBGene00013591	WBGene00016398	WBGene00007093
WBGene00005015	WBGene00013247	WBGene00010524
WBGene00019017	WBGene00016785	WBGene00008854
WBGene00017608	WBGene00022389	WBGene00013090
WBGene00000090	WBGene00007792	WBGene00007649
WBGene00000140	WBGene00000418	WBGene00017144
WBGene00011214	WBGene00002008	WBGene00007833
WBGene00015094	WBGene00012890	WBGene00006777
WBGene00006495	WBGene00019913	WBGene00044799
WBGene00012018	WBGene00021057	WBGene00015214
WBGene00009583	WBGene00021793	WBGene00004752
WBGene00016120	WBGene00013156	WBGene00017179
WBGene00003915	WBGene00019017	WBGene00005006
WBGene00000942	WBGene00008074	WBGene00006902
WBGene00003482	WBGene00018203	WBGene00017556
WBGene00019819	WBGene00020025	WBGene00006688
WBGene00015504	WBGene00015996	WBGene00000897
WBGene00018039	WBGene00077607	WBGene00008627
WBGene00004429	WBGene00020273	WBGene00020775
WBGene00017594	WBGene00009143	WBGene00022554
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1 at least one biological replica of each tissue).

Supplementary table 5, Sheet 1. Transcribed genes calling from RAPID datasets. Pol II

	Muscle			
name	BC_09			
	polii	gatc.num	FDR	polii
WBGene00022277	-0.168908939	14	1.68E+01	-0.343774855
WBGene00022276	0.162643022	12	1.55E-01	0.299489316
WBGene00022278	-0.008718192	26	4.55E+00	0.006964199
WBGene00022279	0.330084138	17	6.21E-03	0.202378263
WBGene00022275	-0.42034047	7	2.72E+01	-0.168054496
WBGene00044345	-0.092268987	6	1.53E+00	0.081175369
WBGene00021677	-0.090666061	13	4.59E+00	-0.145481619
WBGene00021678	-0.326392939	27	2.00E+04	-0.286441661
WBGene00000812	0.034712768	20	1.15E+00	0.126697936
WBGene00021683	-0.305039611	30	3.27E+04	-0.289448063
WBGene00021679	-0.414147788	8	4.04E+01	-0.450652245
WBGene00021682	0.185837629	9	1.51E-01	-0.135514741
WBGene00021676	-0.193427528	12	1.45E+01	-0.78169418
WBGene00189949	0.321265809	4	1.10E-01	-0.739484878
WBGene00021681	0.040663609	47	3.11E+00	0.043054509
WBGene00004274	0.223117071	6	1.49E-01	0.44269295
WBGene00004418	1	8	8.03E-05	0.641346232
WBGene00018774	0.516578267	5	2.51E-02	0.360664354
WBGene00018773	-0.082360177	3	9.06E-01	-0.036534603
WBGene00000622	-0.172958425	7	3.51E+00	-0.27589407
WBGene00004962	-0.161201725	9	4.96E+00	-0.267079454
WBGene00003229	-0.00196126	19	2.20E+00	0.045301739
WBGene00018772	-0.350117013	10	4.90E+01	-0.147967603
WBGene00018771	-0.364048567	25	2.39E+04	-0.201240541
WBGene00271776	-0.068069773	5	1.12E+00	-0.153705373
WBGene00000253	-0.351657464	25	1.77E+04	-0.267152618
WBGene00004225	-0.081556121	16	6.37E+00	-0.130237279
WBGene00018958	-0.176679995	10	7.33E+00	-0.173009046
WBGene00018957	-0.164067663	10	6.38E+00	0.124793107
WBGene00018955	0.270879405	6	1.05E-01	-0.180221377
WBGene00000227	-0.040938613	73	2.19E+03	-0.087766158
WBGene00021666	-0.029491056	7	1.07E+00	0.000654499
WBGene00021662	-0.439146699	10	1.30E+02	-0.267101693
WBGene00255594	0.015082442	5	6.51E-01	-0.086576192
WBGene00021672	0	1	5.26E-01	0
WBGene00021667	-0.38067516	15	5.52E+02	-0.800486399
WBGene00021675	-0.12870786	15	1.13E+01	-0.068660354
WBGene00016904	-0.015026156	1	5.50E-01	0.012150076
WBGene00016903	-0.040260303	11	1.84E+00	0.06006845
WBGene00016905	-0.002677021	2	5.75E-01	-0.000169091
WBGene00016902	0.347303415	35	7.03E-05	0.380853616

WBGene00016906	-0.207389758	12	1.73E+01	-0.148853804
WBGene00002077	0.917871774	16	5.29E-07	0.224041877
WBGene00002079	0.193715379	35	1.17E-02	-0.344441413
WBGene00021660	0.061527463	16	6.17E-01	-0.081046601
WBGene00000917	0.15121499	22	1.01E-01	0.094485277
WBGene00021661	0.000165787	17	1.81E+00	-0.263507173
WBGene00021658	0.000531497	3	6.13E-01	-0.000435354
WBGene00021657	0.016098838	13	1.07E+00	-0.029482131
WBGene00020091	-0.290968292	12	5.03E+01	-0.228264088
WBGene00020088	-0.043723864	11	1.92E+00	-0.011835098
WBGene00020089	0.07436407	6	4.48E-01	0.120914994
WBGene00004143	0.576600057	18	5.77E-05	0.143374776
WBGene00006385	-0.062910872	12	2.75E+00	-0.031160333
WBGene00020090	0.147532879	22	1.10E-01	-0.303606905
WBGene00021733	0.026024266	11	8.39E-01	0.048398516
WBGene00021734	0.001017032	8	8.97E-01	-0.012248643
WBGene00015570	-0.456036397	9	9.64E+01	-0.00273126
WBGene00006593	0.425251026	43	4.69E-07	0.423195121
WBGene00021026	0.298771082	3	1.51E-01	0.261699648
WBGene00021027	0.008321446	9	9.00E-01	-0.018714908
WBGene00021025	-0.019641369	4	7.41E-01	-0.042060879
WBGene000235388	-0.360585894	7	1.66E+01	-0.687535234
WBGene00021028	-0.045964284	11	1.97E+00	-0.158538516
WBGene00021024	0	1	5.26E-01	0
WBGene00001814	-0.290321943	33	5.87E+04	-0.385279176
WBGene00022035	-0.11013352	18	1.44E+01	-0.242020217
WBGene00022036	-0.013949554	6	8.60E-01	0.002855499
WBGene00022034	-1	12	2.48E+06	-1
WBGene00022039	-0.077228196	6	1.37E+00	-0.492258068
WBGene00022037	0.447536386	32	6.58E-06	0.044214401
WBGene00022038	-0.257482777	5	3.82E+00	-0.221710751
WBGene00022033	0.098892748	6	3.74E-01	0.043767239
WBGene00302974	0.082272476	11	4.31E-01	0.057147846
WBGene00022043	0.153863682	1	3.36E-01	-0.0103245
WBGene00022042	0.713763237	5	6.97E-03	0.137742415
WBGene00007009	0.369548027	21	1.15E-03	-0.236480821
WBGene00004235	-0.035383768	33	1.92E+01	-0.325736932
WBGene00002393	0.007901733	7	7.85E-01	-0.081694737
WBGene00022040	-0.859449958	14	3.82E+05	-0.50490881
WBGene00000434	-0.023168367	4	7.56E-01	-0.066631029
WBGene00001725	-0.507310715	8	9.50E+01	-0.439423566
WBGene00044427	-0.27443253	5	4.26E+00	0.027983657
WBGene000235390	0.226185973	3	2.12E-01	-0.26497244
WBGene00002040	0.205517448	63	4.05E-04	0.20436114
WBGene00018923	-0.059926272	31	3.19E+01	-0.10187407
WBGene00018921	-0.122652814	15	1.03E+01	-0.221632712
WBGene00022028	-0.031444701	3	7.13E-01	-0.04290806

WBGene00022029	0.064895202	10	5.19E-01	0.092677688
WBGene00022027	0.392359362	6	4.28E-02	0.542477926
WBGene00022026	0.159372088	44	2.04E-02	0.167677449
WBGene00022030	0.045087703	3	4.97E-01	0.026212888
WBGene00022025	0.028193519	7	6.64E-01	0.081866125
WBGene00022031	0.033563159	12	8.05E-01	0.069679515
WBGene00022032	0.030299286	9	7.21E-01	-0.088131997
WBGene00044461	-0.006094078	4	6.87E-01	-0.017380623
WBGene00021215	0.235105801	8	1.05E-01	0.558077577
WBGene00021214	0.063493615	11	5.38E-01	0.19385943
WBGene00021207	0.057759212	11	5.76E-01	0.109879802
WBGene00021210	0.108052651	7	3.43E-01	-0.038220036
WBGene00021208	0.145002828	10	2.16E-01	0.033384208
WBGene00021209	0.097372825	47	2.57E-01	-0.063312282
WBGene00004332	0	4	6.64E-01	0
WBGene00004028	-0.055266911	33	3.58E+01	-0.08727911
WBGene00044434	-0.240697958	12	2.65E+01	-0.397855659
WBGene00236789	0.32478956	4	1.08E-01	0.373356378
WBGene00000623	-0.160999447	11	7.70E+00	-0.129374754
WBGene00000624	-0.064122668	7	1.43E+00	-0.110595718
WBGene00021213	-0.342252853	44	2.04E+07	-0.381832791
WBGene00021212	-0.124544529	5	1.61E+00	-0.018260312
WBGene00020282	-0.032049598	1	5.78E-01	0
WBGene00020283	-0.178873862	15	2.46E+01	-0.182317334
WBGene00020281	-0.215436395	18	9.70E+01	-0.152866927
WBGene00022518	0.522808433	100	2.11E-18	0.429227404
WBGene00022517	-0.225007106	22	3.51E+02	-0.683391683
WBGene00022519	0.406724309	19	9.39E-04	0.626975129
WBGene00022388	-0.009291239	33	8.42E+00	0.023724685
WBGene00022389	0.629107057	42	2.01E-10	0.16987314
WBGene00022386	0.092499879	26	3.54E-01	-0.178590526
WBGene00022390	-0.041256038	15	2.94E+00	-0.078191878
WBGene00001678	-0.006701844	23	3.37E+00	-0.006235099
WBGene00022385	0.06309969	12	5.53E-01	-0.143997614
WBGene00022391	-0.087552887	69	2.69E+04	-0.144532928
WBGene00022383	0.014759062	6	6.95E-01	-0.0023335
WBGene00003548	0.597870954	18	3.93E-05	0.20318657
WBGene00003238	0.455591398	34	2.66E-06	0.268657723
WBGene00018787	-0.139402388	16	1.64E+01	0.084370799
WBGene00018788	0.282221946	16	1.69E-02	0.291806485
WBGene00018786	0.406428688	13	5.23E-03	-0.294780456
WBGene00016932	0.110392445	29	2.12E-01	-0.139581994
WBGene00016931	0.00097964	5	7.13E-01	0.000289754
WBGene00016930	-0.042803981	8	1.34E+00	-0.158085535
WBGene00236808	-0.921546192	3	4.71E+01	-0.875124243
WBGene00005002	-0.107442189	7	2.04E+00	-0.020329195
WBGene00021335	-0.253559903	2	1.50E+00	0.306921305

WBGene00021327	-0.000788527	10	1.07E+00	0.001249702
WBGene00004952	-0.19857423	12	1.55E+01	-0.570860007
WBGene00021329	0.078368916	5	4.31E-01	0.03614627
WBGene00021332	0.05768476	13	6.08E-01	-0.021763073
WBGene00021331	0.105040504	2	3.81E-01	0.077560026
WBGene00021333	0.228143858	15	4.62E-02	0.25908087
WBGene00021334	0.228331307	40	1.96E-03	0.069357935
WBGene00021328	0.758541201	19	1.18E-06	0.167160281
WBGene00001745	0.943779039	35	1.69E-13	0.393518394
WBGene00019909	-0.01214811	25	4.55E+00	0.031396553
WBGene00044895	0.434820416	6	3.12E-02	0.19836586
WBGene00019911	-0.025002196	11	1.54E+00	-0.076680244
WBGene00022838	-0.067295567	12	2.91E+00	0.011359804
WBGene000236809	-0.000656802	7	8.43E-01	-0.105203198
WBGene00022837	-0.024943474	8	1.14E+00	0.066183275
WBGene00021689	0.056502878	42	1.35E+00	-0.10015859
WBGene00000165	0.354454121	6	5.66E-02	-0.049652129
WBGene00004429	0.163351045	4	2.66E-01	-0.49654999
WBGene00021687	0.466107137	15	1.18E-03	0.220983908
WBGene00001816	-0.00978243	26	4.68E+00	-0.019354798
WBGene00004880	0.079340326	42	5.49E-01	0.065229526
WBGene00021686	-0.012614094	33	9.35E+00	0.005048068
WBGene00021685	-0.048736503	119	9.66E+05	-0.129648141
WBGene00195068	0.018044493	4	6.00E-01	-0.036560955
WBGene00021690	-0.446434209	5	1.30E+01	-0.756892463
WBGene00021691	0.162042329	26	6.12E-02	0.024318764
WBGene00021692	-0.223147631	13	2.80E+01	-0.751571279
WBGene00001707	-0.395724524	31	6.86E+05	-0.300619985
WBGene00271777	-0.353856376	11	7.57E+01	-0.599106722
WBGene00021693	-0.09403372	14	5.65E+00	-0.156408985
WBGene00021694	-0.06546247	2	7.30E-01	-0.025514393
WBGene00003400	0.014857449	77	6.65E+01	-0.001626286
WBGene00044896	-0.522458507	7	6.34E+01	-0.878430203
WBGene00019674	-0.306128615	5	5.24E+00	-0.256886928
WBGene00045052	-0.031064907	1	5.76E-01	-0.023740008
WBGene00045053	0	1	5.26E-01	0.022278685
WBGene00004888	0.241504822	2	2.26E-01	0.56344366
WBGene00019673	0.302124336	15	1.48E-02	0.245054817
WBGene00022363	0.017824156	32	3.37E+00	-0.051081253
WBGene00022366	0.000888896	11	1.13E+00	0.094742712
WBGene00303097	0.012783091	1	5.07E-01	0.013805673
WBGene00022365	-0.003821175	6	7.98E-01	-0.000127401
WBGene00022367	-0.030831383	10	1.48E+00	0.000260747
WBGene00022372	-0.023635818	13	1.84E+00	0.012759699
WBGene00022371	-0.032678112	23	6.05E+00	-0.259334175
WBGene00022368	-0.028211926	5	8.62E-01	0.052536997
WBGene00022369	0.036157941	13	8.15E-01	0.029035685

WBGene00022373	0	7	8.38E-01	0
WBGene00018159	-0.004389264	2	5.78E-01	0.004842315
WBGene00004969	0.454994952	46	5.25E-08	0.492557408
WBGene00001773	0.377665936	6	4.77E-02	0.770043911
WBGene00018580	-0.079975598	11	2.95E+00	-0.080373647
WBGene00018579	0.206067122	28	1.63E-02	-0.217143249
WBGene00001115	0.403968099	15	3.07E-03	0.527770068
WBGene00022361	0.043965495	69	6.24E+00	0.037195784
WBGene00022360	0.027336296	34	2.80E+00	0.012260244
WBGene00022358	0.054655833	45	1.59E+00	-0.027613598
WBGene00005077	0.021226179	23	1.79E+00	0.03231158
WBGene00022270	0.299099626	26	1.92E-03	0.258938677
WBGene00022271	0.72939571	7	2.00E-03	0.715960227
WBGene00022269	-0.000592541	4	6.66E-01	-0.002203395
WBGene00022273	0.002490704	3	6.07E-01	0.004297617
WBGene00044440	-0.013705852	21	3.30E+00	0.039065213
WBGene00000269	0.119797161	27	1.73E-01	0.022297223
WBGene00022268	-0.039386837	8	1.30E+00	0.075550183
WBGene00022274	-0.283578518	17	2.39E+02	-0.02139991
WBGene00003111	0.168607352	21	7.47E-02	-0.063025135
WBGene00022156	-0.491670728	12	6.49E+02	-0.894431996
WBGene00004168	-0.20725024	6	3.58E+00	-0.135263554
WBGene00044358	-0.185928404	31	1.35E+03	-0.13210705
WBGene00022157	-0.280340548	20	6.05E+02	-0.449587956
WBGene00022155	-0.295247687	5	4.88E+00	-0.176130323
WBGene00022158	0.062758794	8	5.09E-01	0.027912409
WBGene00185098	0.013313196	16	1.35E+00	-0.13841872
WBGene00022154	-0.079017681	9	2.17E+00	-0.102444924
WBGene00044348	-0.144674621	16	1.78E+01	-0.04441362
WBGene00006702	0.304157438	10	3.77E-02	0.133027605
WBGene00003080	-0.858135218	2	1.50E+01	0.520230393
WBGene00022153	0.058698172	12	5.84E-01	0.128367315
WBGene00022152	0.178493877	12	1.27E-01	0.124682626
WBGene00006771	0.54885492	76	3.89E-15	0.158687754
WBGene00022159	0.079847576	17	4.60E-01	-0.014293573
WBGene00022150	0	3	6.15E-01	0
WBGene00022149	0.000647511	12	1.22E+00	0.001620761
WBGene00022148	-0.036051195	56	2.44E+02	-0.095599065
WBGene00022160	-0.056686391	11	2.24E+00	-0.182084388
WBGene00022161	-0.296215862	17	2.97E+02	-0.44870665
WBGene00022146	-0.107494664	6	1.72E+00	-0.092111325
WBGene00022162	-0.000880498	1	5.28E-01	-0.009975206
WBGene00022145	-0.260084415	21	5.51E+02	-0.200301092
WBGene00022144	-0.046628851	13	2.52E+00	0.097501044
WBGene00022143	-0.142215432	9	4.09E+00	-0.429566352
WBGene00044349	-0.005520223	4	6.85E-01	-0.017154873
WBGene00022142	-0.133605566	5	1.71E+00	-0.052455012

WBGene00044347	-0.156098359	16	2.15E+01	-0.09778079
WBGene00022141	0.033204862	15	9.34E-01	-0.422797024
WBGene00044746	0.81632958	3	1.32E-02	0.431842017
WBGene00016907	1	9	7.37E-07	0.349483617
WBGene00004441	0.589530825	2	6.00E-02	-0.001755054
WBGene00001196	0.648695994	23	1.27E-06	-0.006182662
WBGene00303070	0.358210828	1	1.85E-01	0.166933695
WBGene00001309	0.176849379	6	2.10E-01	0.582622982
WBGene00003750	-0.130016376	2	9.34E-01	0.077815599
WBGene00006461	-0.233260389	20	2.37E+02	-0.144266341
WBGene00044897	-0.072517157	4	9.97E-01	-0.640422773
WBGene00004743	0.106553385	10	3.29E-01	0.104675349
WBGene00022139	0.638951542	38	9.77E-10	0.466403148
WBGene00303094	-0.002476631	1	5.30E-01	-0.179154266
WBGene00022140	0.435190918	32	9.59E-06	0.214411597
WBGene00022138	-0.023504625	62	2.29E+02	-0.03751697
WBGene00021768	-0.001119311	7	8.46E-01	0.128106257
WBGene00021766	-0.03930297	23	7.03E+00	-0.164779357
WBGene00021765	-0.155094719	31	5.39E+02	-0.145594038
WBGene00255420	0.068603726	10	4.99E-01	-0.063879121
WBGene00021771	-0.004353665	6	8.01E-01	-0.001803059
WBGene00044438	0	6	7.76E-01	0.04674478
WBGene00021764	-0.015093272	16	2.15E+00	0.004188629
WBGene00021763	-0.106507246	15	8.05E+00	-0.190360489
WBGene00021238	0.058260855	65	2.27E+00	0.024279063
WBGene00021237	0.203592071	27	1.93E-02	0.068431423
WBGene00021239	-0.062113716	35	5.80E+01	-0.003723835
WBGene00044435	0.825590168	6	1.74E-03	0.134361487
WBGene00021346	0.463241323	10	6.60E-03	-0.522959719
WBGene00021347	0.33456018	2	1.59E-01	0.076123519
WBGene00021348	0.329339762	5	8.46E-02	-0.134999589
WBGene00021349	0.578170289	13	5.03E-04	0.004716156
WBGene00004409	0.912376689	4	4.01E-03	-0.405441429
WBGene00021350	0.97159669	4	2.88E-03	-0.149468228
WBGene00004014	0.592794882	5	1.53E-02	0.27704867
WBGene00021351	0.2384657	13	5.17E-02	0.118711079
WBGene00021352	-0.132621328	22	4.75E+01	-0.018125257
WBGene00021353	-0.165410863	29	4.67E+02	-0.177764718
WBGene00003799	-0.01738952	58	1.11E+02	-0.073050632
WBGene00044810	0	3	6.15E-01	3.38E-05
WBGene00021354	0.062080464	23	7.14E-01	-0.242321463
WBGene00021355	-0.004846036	55	4.43E+01	0.01571506
WBGene00235158	-0.222579222	6	4.01E+00	0.016465474
WBGene00021009	-0.02816626	79	1.72E+03	-0.019845862
WBGene00021008	0	6	7.76E-01	0.003992356
WBGene00021005	0	1	5.26E-01	0
WBGene00001542	-0.058411824	26	1.60E+01	-0.053611066

WBGene00021006	-0.050443448	7	1.27E+00	-0.072134242
WBGene00021007	-0.387677848	19	3.35E+03	-0.146915836
WBGene00017399	-0.06409651	12	2.79E+00	-0.102864741
WBGene00017398	-8.88E-05	8	9.06E-01	-0.048224253
WBGene00000020	0.080275234	50	5.54E-01	0.088581721
WBGene00021458	-0.088822333	3	9.34E-01	-0.043956021
WBGene00000408	-0.006533424	13	1.46E+00	0.022323341
WBGene00021469	0.570546268	25	3.13E-06	0.392947467
WBGene00021470	0.116707501	27	1.87E-01	0.083452455
WBGene00021468	0.14711024	18	1.37E-01	0.008451636
WBGene00002047	-0.013757406	11	1.34E+00	-0.046060707
WBGene00021467	0.174884199	8	1.82E-01	-0.404221407
WBGene00021476	0.261664452	12	4.40E-02	-0.123841752
WBGene00021475	-0.116299591	2	8.87E-01	0.018876092
WBGene00021466	-0.142122297	16	1.71E+01	0.029417271
WBGene00021465	-0.334330118	12	8.75E+01	-0.691091485
WBGene00003156	-0.393233927	24	3.17E+04	-0.052003631
WBGene00219275	-0.430371146	3	4.66E+00	0.410664487
WBGene00021471	-0.668917853	24	2.04E+07	-0.596272966
WBGene00021477	-0.419172766	11	1.64E+02	-0.510392458
WBGene00021472	-0.207789733	13	2.27E+01	-0.304934095
WBGene00021464	-0.041180293	8	1.32E+00	-0.048235768
WBGene00021463	-0.152631238	18	3.11E+01	-0.136468022
WBGene00077563	-0.167433101	15	2.06E+01	-0.019674308
WBGene00021461	-0.138459421	35	7.36E+02	-0.044134535
WBGene00021473	0.166419178	19	9.01E-02	0.057602038
WBGene00021474	0.054515242	34	1.16E+00	0.035475598
WBGene00021460	0.270602139	26	3.95E-03	0.287894576
WBGene00017741	-8.48E-05	15	1.56E+00	0.158063929
WBGene00017734	0.316771527	11	2.68E-02	0.435540003
WBGene00017735	-0.392315197	5	9.17E+00	0.257343789
WBGene00017736	-0.027405613	8	1.16E+00	0.012561261
WBGene00017737	-0.153014727	9	4.56E+00	-0.0739666
WBGene00017738	-0.524715874	6	3.74E+01	0.12206281
WBGene00017733	0.110641215	6	3.43E-01	0.09189152
WBGene00255457	0.767481203	2	3.04E-02	0.380290593
WBGene00017732	-0.029676055	4	7.84E-01	0.028174071
WBGene00002141	-0.006959313	29	5.60E+00	0.02628536
WBGene00022280	0.033516574	5	5.77E-01	0.015449297
WBGene00022281	-0.049074362	35	3.76E+01	-0.008189523
WBGene00022282	-0.355794819	4	4.87E+00	0.177936957
WBGene00001232	0.293028196	17	1.18E-02	0.132152381
WBGene00021277	0.104575833	16	3.06E-01	-0.001647966
WBGene00021276	0.093763229	14	3.69E-01	0.121445515
WBGene00021275	0.039186326	10	6.88E-01	0.123608801
WBGene00021274	-0.400409801	10	8.50E+01	-0.903638489
WBGene00021279	-0.320145375	5	5.74E+00	-0.200874006

WBGene00021280	-0.412337902	6	1.63E+01	-0.619605688
WBGene00021272	-0.095950636	6	1.58E+00	-0.094890048
WBGene00194701	0	4	6.64E-01	-0.257511199
WBGene00016950	-0.507693752	13	1.35E+03	-0.4034274
WBGene00016949	-0.031766931	3	7.14E-01	-0.017472873
WBGene00006047	0.070191621	6	4.62E-01	-0.180349025
WBGene00016948	-0.609946326	7	1.31E+02	-0.377280809
WBGene00000006	0.524700198	12	1.54E-03	0.099287965
WBGene00001404	-0.047202582	8	1.40E+00	0.02672471
WBGene00004226	-0.050326867	23	9.02E+00	-0.272905202
WBGene00019461	-0.293227385	16	2.01E+02	-0.651493408
WBGene00000832	0.359370928	29	2.03E-04	0.273907666
WBGene00021271	0.023221741	7	6.91E-01	0.420786636
WBGene00021270	-0.116800022	9	3.17E+00	0.142262619
WBGene00021269	-0.08609941	8	1.99E+00	-0.642778743
WBGene00000800	0.077185701	28	5.30E-01	0.49829755
WBGene00023172	0.987989027	6	5.25E-04	0.054577811
WBGene00018231	0.552769545	2	6.90E-02	-0.030364406
WBGene00018230	0.680977641	9	1.03E-03	-0.425809159
WBGene00018232	-0.253454571	33	1.84E+04	-0.179987409
WBGene00018233	-0.550017551	5	2.55E+01	-0.237419698
WBGene00017979	0.019455461	13	1.02E+00	-0.283572256
WBGene00017980	0.802947824	35	1.83E-11	0.333112116
WBGene00000788	0.209949887	11	9.49E-02	0.223514055
WBGene00017978	-0.495614533	6	3.02E+01	-0.356131766
WBGene00017977	-0.421131293	7	2.74E+01	-0.404739665
WBGene00017976	-0.14540725	11	6.40E+00	-0.225251046
WBGene00017975	-0.964889263	10	4.13E+04	-0.767613797
WBGene00003006	0.098461017	26	3.04E-01	-0.067762998
WBGene00001048	-0.147201805	9	4.31E+00	-0.054589973
WBGene00022128	0.268289282	15	2.49E-02	0.069437451
WBGene00004920	0.774876601	4	8.66E-03	0.441848667
WBGene00022127	0.286870749	9	5.45E-02	-0.347168472
WBGene00022126	-0.084939873	14	4.95E+00	-0.276779784
WBGene00022129	0.200372592	34	1.03E-02	0.05827867
WBGene00004043	-0.028123635	12	1.77E+00	-0.074985716
WBGene00022130	-0.045088066	6	1.08E+00	-0.18037731
WBGene00004946	-0.012085358	45	2.65E+01	-0.100853741
WBGene00022125	0.004048768	6	7.53E-01	-0.074075657
WBGene00022131	-0.003166892	6	7.94E-01	0.032825504
WBGene00022133	-0.447239275	18	6.44E+03	-0.388949152
WBGene00020990	-0.094446036	6	1.56E+00	-0.328692051
WBGene00255550	-0.01496876	1	5.50E-01	-0.324385331
WBGene00020984	-0.145344859	8	3.43E+00	-0.258510324
WBGene00020989	-0.181809753	9	6.10E+00	-0.116005808
WBGene00020988	-0.354080864	5	7.15E+00	-0.110695454
WBGene00020985	-0.402150911	10	8.67E+01	-0.460091338

WBGene00002174	-0.408484945	41	8.34E+07	-0.450466839
WBGene00020987	-0.363147165	3	3.40E+00	-0.159770354
WBGene00044796	0.057392697	6	5.08E-01	-0.249410885
WBGene00020986	0.003506698	4	6.51E-01	0.114150897
WBGene00004077	-0.024547011	21	4.13E+00	0.074951237
WBGene00021126	0.523383169	1	1.14E-01	0.077088665
WBGene00021125	-0.193965741	8	5.36E+00	-0.089091357
WBGene00021127	-0.037125078	4	8.18E-01	0.009555924
WBGene00021128	-0.337395402	11	6.23E+01	-0.767221334
WBGene00044433	-0.060067215	2	7.15E-01	-0.171329053
WBGene00022116	-0.006645824	1	5.37E-01	0.063886112
WBGene00022115	0.057603818	8	5.34E-01	0.03466919
WBGene00022117	0.145750122	12	1.93E-01	0.056709101
WBGene00004412	0.922847256	8	1.91E-04	0.323157025
WBGene00022114	0.773423088	9	4.07E-04	0.454678313
WBGene00022113	-0.059354795	6	1.20E+00	-0.216643047
WBGene00022118	-0.000545567	5	7.20E-01	0.026718127
WBGene00000199	0.061603334	32	8.84E-01	-0.28397313
WBGene00022112	-0.145586247	10	5.21E+00	-0.67468167
WBGene00022111	0.222255768	5	1.69E-01	-0.452027753
WBGene00022119	0.156727342	22	8.98E-02	0.246355122
WBGene00001791	-0.015243809	7	9.51E-01	0.208304621
WBGene00022110	-0.204554165	13	2.17E+01	-0.227502807
WBGene00004049	-0.129735343	53	1.79E+04	0.000528087
WBGene00022108	0.015735346	15	1.22E+00	0.059593543
WBGene00022107	0.306784567	12	2.48E-02	0.27428992
WBGene00022122	0.66574992	6	5.68E-03	0.598443188
WBGene00003836	0.065651778	2	4.43E-01	0.085158089
WBGene00022121	0.002110217	31	5.06E+00	0.114349556
WBGene00045398	0.490238698	3	6.11E-02	0.490730383
WBGene00284845	0.020629673	4	5.92E-01	-0.045606011
WBGene00000237	-0.160807401	31	6.39E+02	-0.243703381
WBGene00044894	0	4	6.64E-01	0.011081756
WBGene00022123	0.027397566	7	6.68E-01	0.114860418
WBGene00022124	0.003136256	26	3.38E+00	0.012739679
WBGene00001046	-0.027842497	10	1.43E+00	0.038236447
WBGene00021839	0.064153256	5	4.73E-01	0.047290086
WBGene00021838	0.029482944	4	5.63E-01	0.169671733
WBGene00003186	0.008911833	37	6.27E+00	0.023365472
WBGene00000625	0.084195479	9	4.19E-01	0.474044035
WBGene00021837	0.196654634	6	1.81E-01	-0.382491076
WBGene00021843	-0.042279875	10	1.68E+00	-0.113747738
WBGene00021842	0.038810066	9	6.62E-01	0.057047174
WBGene00021844	0.183020982	12	1.20E-01	0.163233869
WBGene00021845	0.187655556	11	1.24E-01	-0.274708046
WBGene00021841	-0.092823757	10	2.92E+00	-0.401859511
WBGene00003387	-0.064503071	37	8.23E+01	-0.034301212

WBGene00021846	-0.01795432	11	1.41E+00	-0.004943632
WBGene00021840	-0.017894563	21	3.60E+00	-0.001292678
WBGene00000205	0.019242787	2	5.29E-01	0.248542483
WBGene00019697	0.200164532	24	2.86E-02	0.190221049
WBGene00019698	0.143799769	17	1.53E-01	0.107908142
WBGene00003654	-0.005085467	23	3.25E+00	-0.039688602
WBGene00195056	-0.89645744	6	5.82E+02	-1
WBGene00016663	0	7	8.38E-01	-0.048751478
WBGene00219460	-0.006363363	5	7.48E-01	-0.053010444
WBGene00000626	0.023170024	6	6.54E-01	-0.001891583
WBGene00045387	0.043054943	5	5.43E-01	0
WBGene00019597	-0.51614896	3	6.98E+00	-0.286408725
WBGene00003062	0.129694766	20	1.74E-01	0.189897012
WBGene00019595	-0.159946839	12	9.48E+00	-0.053028737
WBGene00006888	-0.066896625	51	6.11E+02	-0.098360935
WBGene00019598	-0.333440295	8	1.93E+01	-0.219202518
WBGene00019594	-0.58461834	13	3.87E+03	-0.732867352
WBGene00021829	0.058257364	2	4.55E-01	0.064720643
WBGene00021828	0.124342054	10	2.71E-01	0.235668582
WBGene00021827	-0.024972259	2	6.26E-01	-0.017956698
WBGene00021830	0.247808105	4	1.66E-01	0.140522789
WBGene00021831	-0.044693663	29	1.61E+01	0.030602876
WBGene00021832	-0.058155587	14	3.36E+00	-0.083701523
WBGene00021833	-0.061438672	8	1.59E+00	0.017024005
WBGene00021835	-0.313685824	13	9.61E+01	-0.485571629
WBGene00001481	-0.018268401	28	6.99E+00	-0.193050721
WBGene00004404	0.015662744	3	5.71E-01	0.02453053
WBGene00000413	-0.177498125	15	2.41E+01	-0.010042768
WBGene00021826	0.007714447	7	7.86E-01	0.039642578
WBGene00003258	-0.103915451	56	8.32E+03	-0.147885091
WBGene00021834	-0.172339619	13	1.40E+01	-0.694157537
WBGene00021553	-0.044239048	18	4.38E+00	-0.01872472
WBGene00021552	0.116412652	5	3.37E-01	0.154797822
WBGene00020915	0.589508368	13	4.31E-04	0.071664279
WBGene00004154	-0.029625457	16	2.73E+00	-0.013159624
WBGene00020914	-0.205660759	21	1.78E+02	-0.306185518
WBGene00020917	0.2883375	4	1.32E-01	0.064643599
WBGene00020913	0.017112062	1	5.01E-01	-0.003138078
WBGene00000036	0.546809786	27	2.46E-06	0.411297377
WBGene00303088	1	2	1.14E-02	0.659857387
WBGene00021548	0.116373407	6	3.28E-01	0.164130338
WBGene00021549	-0.026345757	14	2.11E+00	-0.024262719
WBGene00021547	0.006744041	2	5.54E-01	0.023299293
WBGene00021551	0.036039861	29	1.69E+00	0.075934575
WBGene00021039	-0.526819261	33	1.01E+08	-0.868352948
WBGene00195045	0	5	7.18E-01	-0.014886992
WBGene00021034	-0.797195684	14	1.54E+05	-0.90050251

WBGene00021035	-0.251055409	5	3.66E+00	0.146247021
WBGene00021038	-0.265476816	5	4.02E+00	-0.154059188
WBGene00021036	0.251340562	76	4.15E-06	0.140908937
WBGene00019362	-0.008407231	7	8.98E-01	-0.018169897
WBGene00019361	0.169513575	8	1.91E-01	0.016383193
WBGene00019360	0.142030629	8	2.46E-01	-0.02029016
WBGene00004775	0.021286983	36	3.83E+00	-0.537255119
WBGene00006440	-0.224094564	33	7.30E+03	-0.330361938
WBGene00021639	-0.688080514	20	2.01E+06	-1
WBGene00003422	-0.176352944	42	1.34E+04	-0.318758435
WBGene00021640	-0.047385606	12	2.26E+00	0.052939582
WBGene00004978	-0.076928963	30	4.57E+01	0.029353454
WBGene00021641	0.181970533	7	1.86E-01	0.050784415
WBGene00021638	0.099933136	4	3.79E-01	0.137307024
WBGene00000794	-0.166867988	5	2.12E+00	0.095637884
WBGene00021643	-0.310591446	41	1.90E+06	-0.256852145
WBGene00021637	-0.105661392	15	7.95E+00	0.129962536
WBGene00021644	-0.054677224	7	1.32E+00	0.195889161
WBGene00021636	-0.031205732	14	2.27E+00	0.006176178
WBGene00021645	-0.504378615	21	8.82E+04	-0.701724031
WBGene00021653	-0.822764286	3	2.96E+01	-0.731911505
WBGene00021635	-0.187546528	16	3.59E+01	-0.214586619
WBGene00004389	-0.02122193	11	1.47E+00	0.10956965
WBGene00021634	-0.004260455	13	1.41E+00	0.008488813
WBGene00021646	-0.24635962	46	7.03E+05	-0.303179382
WBGene00021647	0.054773285	7	5.33E-01	0.019871116
WBGene00045399	-0.466015025	8	6.50E+01	-0.6572638
WBGene00003060	-0.059212017	92	8.88E+04	-0.041989054
WBGene00021633	0.01495853	8	7.89E-01	-0.28720399
WBGene00044436	-0.067423637	5	1.11E+00	-0.007554191
WBGene00021648	-0.005144741	1	5.34E-01	-0.000271081
WBGene00021649	-0.163880847	9	5.09E+00	-0.068904756
WBGene00002144	-0.072858913	10	2.35E+00	-0.035958029
WBGene00002143	0.004323121	12	1.17E+00	0.108817381
WBGene00021650	-0.857317325	10	1.27E+04	-0.275384945
WBGene00044437	0.008480667	5	6.79E-01	-0.014549334
WBGene00000284	0.663473422	10	7.36E-04	0.343913571
WBGene00020902	0.34803513	16	5.76E-03	0.091106913
WBGene00020901	0.074965407	3	4.32E-01	0.281362757
WBGene00020900	0.019729103	5	6.31E-01	0.606725706
WBGene00000368	0.445160226	14	2.24E-03	0.442958632
WBGene00000627	0.011974265	2	5.43E-01	0.079718695
WBGene00000628	-0.632675396	4	2.30E+01	-0.530740802
WBGene00020903	-0.094779515	16	7.90E+00	-0.151216198
WBGene00004890	-0.487051005	16	4.75E+03	-0.103007167
WBGene00001501	-0.474907911	4	9.49E+00	-0.471534715
WBGene00004272	0.209580471	6	1.65E-01	0.172564134

WBGene00017025	0.096527985	21	3.34E-01	-0.017427307
WBGene00017026	-0.357287349	18	1.26E+03	-0.338637532
WBGene00003418	-0.582051249	16	2.24E+04	-0.635161422
WBGene00002042	-0.172795039	4	1.75E+00	-0.171458905
WBGene00017651	-0.206165565	9	7.79E+00	-0.142603913
WBGene00017650	0.158896798	12	1.63E-01	-0.171528039
WBGene00003040	1	38	2.27E-16	0.444545847
WBGene00001601	-0.438309921	21	2.24E+04	-0.465946076
WBGene00020467	-0.031444572	9	1.34E+00	-0.382519073
WBGene00004147	0.315565211	23	2.34E-03	0.110285057
WBGene00020466	-0.345467507	8	2.15E+01	-0.529321073
WBGene00021175	-1	43	2.46E+20	-0.992568738
WBGene00002135	-0.215255445	13	2.51E+01	-0.02755137
WBGene00002134	-0.34499995	13	1.47E+02	-0.072356527
WBGene00022815	-0.493577521	14	1.88E+03	-0.331845508
WBGene00194702	-0.016366018	2	6.05E-01	-0.108431668
WBGene00016324	-0.374403221	12	1.46E+02	-0.445815823
WBGene00284853	-0.035171275	2	6.51E-01	-0.048438623
WBGene00004368	-0.251809804	9	1.23E+01	-0.069245406
WBGene00016323	0.523079066	15	4.89E-04	-1
WBGene00016322	-0.041779883	1	5.95E-01	-0.082284313
WBGene00016321	0.432303283	4	5.90E-02	0.286983867
WBGene00004425	0.770849972	4	8.86E-03	1
WBGene00004217	0.659928605	18	1.28E-05	0.061651837
WBGene00016325	0.105616297	10	3.32E-01	0.328280066
WBGene00016320	-0.24821396	4	2.67E+00	0.337812751
WBGene00006751	0.086343019	11	4.11E-01	0.042347528
WBGene00016326	0.057775118	52	1.67E+00	-0.073842148
WBGene00003797	0.131587544	15	2.05E-01	-0.220214912
WBGene00006833	0.737606573	14	3.20E-05	0.793949692
WBGene00018765	0.379088789	2	1.34E-01	0.151433761
WBGene00044423	0.972035848	5	1.30E-03	0.559652671
WBGene00018764	0.303822036	13	2.12E-02	0.310659509
WBGene00018763	0.186794923	6	1.95E-01	-0.177517727
WBGene00020187	0.343029506	10	2.47E-02	-0.039779958
WBGene00020188	-0.089393417	6	1.50E+00	-0.150296266
WBGene00020192	-0.605150829	3	1.06E+01	-0.685961602
WBGene00020189	-0.194937044	17	5.21E+01	-0.393545945
WBGene00020190	-0.118716469	7	2.24E+00	-0.146601778
WBGene00001832	0.034543039	14	8.73E-01	-0.113004884
WBGene00020185	0.616726032	9	1.97E-03	0.159114023
WBGene00000764	0.407032421	6	3.84E-02	0.154308672
WBGene00020191	-0.256548128	5	3.80E+00	0.128141681
WBGene00020184	0.451045877	10	7.55E-03	0.052020103
WBGene00020193	0.393688701	4	7.32E-02	0.702617621
WBGene00016837	0.05112221	24	9.44E-01	0.031641645
WBGene00016836	-0.190508664	33	2.53E+03	-0.239128094

WBGene00000013	-0.126027429	1	7.61E-01	0.359643988
WBGene00000012	-0.128986214	3	1.13E+00	-0.076913314
WBGene00016838	-0.04160149	6	1.05E+00	-0.057826528
WBGene00016835	-0.068875813	11	2.58E+00	-0.485669305
WBGene00016839	-0.565550888	12	1.66E+03	-0.986450976
WBGene00001430	0.248121557	11	6.04E-02	-0.701870455
WBGene00016840	-0.119180951	4	1.29E+00	0.079946427
WBGene00016841	0.095144043	11	3.70E-01	0.08052365
WBGene00003950	-0.08901525	5	1.28E+00	-0.255351969
WBGene00020625	-0.070475066	4	9.86E-01	-0.346449642
WBGene00077599	-0.102873256	4	1.18E+00	-0.069881056
WBGene00020626	0.038521685	9	6.64E-01	-0.201038354
WBGene00020627	-0.041449968	3	7.47E-01	-0.036771082
WBGene00020628	-0.066037487	17	5.67E+00	-0.076359002
WBGene00020629	0.091761097	7	3.92E-01	0.146811701
WBGene00020653	0.042151851	4	5.25E-01	-0.101276722
WBGene00020652	-0.140368148	14	1.11E+01	-0.553510136
WBGene00003072	0.146763	105	1.31E-03	-0.135146045
WBGene00018528	-0.028128064	6	9.55E-01	-0.362358303
WBGene00018529	-2.23E-05	7	8.38E-01	-0.121547728
WBGene00018527	0	3	6.15E-01	-0.000486733
WBGene00018530	0	8	9.06E-01	0
WBGene00018531	-0.78596495	7	5.61E+02	-0.721512909
WBGene00018526	-0.101287459	2	8.37E-01	-0.036080196
WBGene00018525	0	8	9.06E-01	0
WBGene00017909	0.039658899	11	7.14E-01	-0.408537485
WBGene00017910	0	4	6.64E-01	0
WBGene00000197	0.159176641	21	9.08E-02	-0.264522549
WBGene00000779	0.824759964	5	3.39E-03	0.034255409
WBGene00017908	0.210455535	6	1.64E-01	0.241444346
WBGene00006805	0.302857886	108	2.37E-10	0.060132644
WBGene00018868	0.597172993	2	5.83E-02	-0.189463426
WBGene00006820	0.435638677	203	7.09E-29	0.217337654
WBGene00015631	0.4092559	4	6.71E-02	0.383225469
WBGene00016066	-0.279922829	13	6.07E+01	-0.411436157
WBGene00016064	-0.171922359	10	6.96E+00	-0.073010666
WBGene00016063	-0.177330981	10	7.38E+00	-0.029252042
WBGene00000867	0.061986022	8	5.13E-01	-0.198674948
WBGene00019254	-0.944568128	5	3.31E+02	-0.534197976
WBGene00019253	0.060263702	2	4.52E-01	0.145896946
WBGene00003029	-0.467016831	11	2.89E+02	-0.346466504
WBGene00002696	0.232333802	14	4.93E-02	-0.084467154
WBGene00017085	0.378267932	10	1.68E-02	0.413154425
WBGene00017087	0.80170527	5	3.94E-03	0.691618472
WBGene00017088	0.512470974	10	3.85E-03	-0.14354591
WBGene00017084	0.39357647	14	4.74E-03	-0.108792229
WBGene00017089	-0.021445306	7	1.00E+00	-0.464826359

WBGene00077701	-0.670497112	7	2.16E+02	-0.775050974
WBGene00017090	-0.335944489	2	2.05E+00	-0.193922832
WBGene00020040	-0.256630561	1	1.11E+00	-0.135802709
WBGene00020039	-0.653660748	3	1.33E+01	0.116069349
WBGene00020032	-0.120523047	2	9.01E-01	0.123623365
WBGene00020033	-0.30157529	5	5.09E+00	-0.414081263
WBGene00020034	-0.149956752	10	5.47E+00	-0.482884127
WBGene00002137	-0.07899037	6	1.39E+00	-0.429155961
WBGene00002138	-0.567133214	12	1.70E+03	-0.237257038
WBGene00002139	-0.037941268	8	1.28E+00	-0.238383173
WBGene00020035	-0.266178035	14	6.89E+01	0.061119989
WBGene00020036	1	5	1.78E-04	1
WBGene00020037	0.65481413	9	1.34E-03	0.251353338
WBGene00004464	0.652807631	9	1.37E-03	0.187372331
WBGene00020038	0.738846502	4	1.06E-02	0.870398276
WBGene00020031	0.112434277	12	2.95E-01	-0.119884343
WBGene00020030	-0.579250494	16	2.14E+04	-0.833653673
WBGene00004093	-0.358087869	35	1.10E+06	-0.386247379
WBGene00015975	-0.21777512	7	5.08E+00	-0.155506724
WBGene00015974	-0.071861625	12	3.09E+00	-0.121438697
WBGene00015973	0.007099151	2	5.54E-01	0.00171371
WBGene00015972	-0.068658912	20	8.99E+00	0.345937103
WBGene00001985	-0.124112681	3	1.10E+00	0.180805638
WBGene00015971	-0.134126333	10	4.60E+00	-0.156043574
WBGene00015970	-0.308447487	13	8.95E+01	-0.00056482
WBGene00015976	0.003027791	3	6.06E-01	0.010474912
WBGene00003516	0.241179255	29	5.49E-03	-0.155893923
WBGene00016605	-0.876117882	14	4.86E+05	-0.722254367
WBGene00003584	0.00750263	15	1.39E+00	0.090847056
WBGene00016606	-0.373194961	13	2.16E+02	0.181703233
WBGene00007001	-0.291178873	10	2.57E+01	-0.567736
WBGene00016608	0.207763124	11	9.74E-02	0.266531141
WBGene00016609	0.335171901	7	5.23E-02	0.259898834
WBGene00016603	0.376784941	38	1.21E-05	0.479627073
WBGene00016602	0.411821324	9	1.55E-02	-0.011183881
WBGene00016607	0.056897026	3	4.70E-01	-0.1401173
WBGene00000382	0.268487065	10	5.58E-02	0.241951818
WBGene00016601	-0.175087826	15	2.32E+01	-0.210217129
WBGene00021631	-0.007765631	2	5.86E-01	0
WBGene00021630	-0.559247519	6	4.83E+01	-0.581133787
WBGene00021632	-0.830860027	6	3.59E+02	-0.676590829
WBGene00021629	0.321319431	14	1.35E-02	0.576586713
WBGene00021628	-0.257772812	18	2.09E+02	-0.248956333
WBGene00303090	-0.106859641	1	7.19E-01	-0.07283331
WBGene00000140	-0.023437361	212	5.90E+08	-0.031850049
WBGene00000045	-0.007862	11	1.25E+00	0.098668196
WBGene00022833	0.015693077	2	5.36E-01	-0.006444875

WBGene00022834	-0.34278436	7	1.43E+01	-0.027770831
WBGene00022832	0.547615482	15	3.35E-04	-0.237917605
WBGene00022835	0.519309539	6	1.67E-02	-0.097295202
WBGene00003061	-0.080239169	5	1.21E+00	0.10844346
WBGene00022831	-0.149805852	30	3.73E+02	-0.62650204
WBGene00022836	-0.02240679	9	1.23E+00	-0.153209256
WBGene00022830	-0.214459566	13	2.48E+01	-0.15862039
WBGene00000962	0.132753593	98	6.69E-03	-0.133298298
WBGene00020655	-0.063345366	5	1.08E+00	-0.052037765
WBGene00015704	0.020529623	28	2.45E+00	0.089689148
WBGene00020656	-0.009115623	2	5.89E-01	0.19158523
WBGene00195180	-0.206255624	3	1.62E+00	0.01778021
WBGene00016562	-0.154085331	46	1.32E+04	-0.158752536
WBGene00001231	0.035837607	6	5.95E-01	-0.327672063
WBGene00000787	0.635272621	8	2.67E-03	0.66962599
WBGene00016567	-0.5401315	7	7.33E+01	-0.580816104
WBGene00016564	0.270912633	8	7.55E-02	-0.383546143
WBGene00016566	-0.121885908	18	1.78E+01	0.057374258
WBGene00016561	-0.150731331	49	2.15E+04	-0.197313974
WBGene00016565	-0.17494834	20	7.44E+01	-0.131214001
WBGene00271778	-0.064714566	2	7.28E-01	-0.138168227
WBGene00020131	0.401863959	79	4.83E-11	0.357042656
WBGene00022470	0.092028759	6	3.93E-01	0.626862411
WBGene00022471	-0.018418463	12	1.56E+00	-0.052398208
WBGene00022472	-0.094944129	4	1.13E+00	-0.246244034
WBGene00044754	-0.002631429	3	6.22E-01	-0.102657661
WBGene00022473	0.010045235	10	9.47E-01	0.156632491
WBGene00022474	-0.189976517	4	1.92E+00	-0.206675383
WBGene00022469	0.19767351	9	1.34E-01	0.10354545
WBGene00044441	-0.309284786	2	1.85E+00	-0.675109608
WBGene00022467	-0.583279398	12	2.09E+03	-0.907361491
WBGene00022475	-0.355341393	8	2.36E+01	-0.311417309
WBGene00017010	-0.011491088	21	3.15E+00	-0.295684928
WBGene00004113	-0.317484386	6	8.09E+00	0.055845137
WBGene00017009	-0.466628408	8	6.54E+01	0.021264902
WBGene00000440	-0.015805798	5	7.95E-01	-0.044920271
WBGene00000629	-0.254780562	4	2.77E+00	-0.29810446
WBGene00017001	-0.097950883	7	1.89E+00	-0.176502299
WBGene00044421	0.046111787	1	4.60E-01	0.117461663
WBGene00017002	0.586313365	5	1.59E-02	1
WBGene00017003	0.817400929	11	7.10E-05	0.982367688
WBGene00004479	1	3	7.63E-04	1
WBGene00004436	2	4	2.77E-05	0.953514291
WBGene00017007	0.1949737	10	1.25E-01	0.13507961
WBGene00045048	-0.857199429	4	8.08E+01	-1
WBGene00017006	-0.230264694	5	3.20E+00	-0.060403411
WBGene00017004	0.129754183	22	1.61E-01	0.262690375

WBGene00017011	0.016943187	6	6.84E-01	-0.076590976
WBGene00017005	0	1	5.26E-01	-0.00904637
WBGene00016654	0.106860078	14	3.05E-01	0.01296975
WBGene00016650	-0.077944224	91	3.71E+05	-0.230199309
WBGene00016653	2	6	7.94E-07	1
WBGene00016655	-0.218854026	5	2.97E+00	0.265702601
WBGene00016652	-0.102670374	11	3.86E+00	-0.103404512
WBGene00022466	0.04944287	10	6.15E-01	0.241783657
WBGene00015008	1	5	9.86E-05	1
WBGene00004415	1	3	1.01E-03	1
WBGene00015011	0.711860812	8	1.32E-03	0.208896406
WBGene00015009	0.191029758	5	2.08E-01	0.172799114
WBGene00303032	0.038358015	1	4.71E-01	-0.015045954
WBGene00015010	-0.383418233	3	3.74E+00	-0.618814521
WBGene00015007	0.530260632	29	1.72E-06	0.497891184
WBGene00206362	-1	20	1.19E+10	-0.315028206
WBGene00015006	-0.008698925	2	5.88E-01	0.39295211
WBGene00006961	0.187148576	29	2.48E-02	0.508373701
WBGene00006791	0.221623734	9	1.05E-01	0.375088985
WBGene00020212	-0.398273516	13	3.05E+02	-0.27663069
WBGene00007053	0.750678803	54	1.34E-15	0.271144496
WBGene00021112	0.439798981	10	8.54E-03	0.31408433
WBGene00021111	-0.003516027	3	6.25E-01	0.023216851
WBGene00021113	-0.548845936	11	7.63E+02	-0.669093092
WBGene00021110	-0.577887075	12	1.95E+03	-0.342522296
WBGene00021114	-0.852454831	8	2.25E+03	-0.575295545
WBGene00021115	-0.413855947	3	4.31E+00	-0.554311894
WBGene00021109	-0.190438049	13	1.79E+01	-0.48374642
WBGene00015696	-0.008781037	1	5.40E-01	-0.019191221
WBGene00015695	-0.081924372	6	1.42E+00	-0.107081766
WBGene00015694	-0.137674045	9	3.91E+00	-0.338982696
WBGene00015693	0.030335531	7	6.52E-01	-0.023418385
WBGene00015692	-0.579165038	10	6.03E+02	-0.349383766
WBGene00015697	-0.03256521	8	1.22E+00	-0.26935895
WBGene00002694	-0.478617659	35	6.06E+07	-0.530101913
WBGene00015691	0.039804033	34	1.87E+00	0.065807983
WBGene00015698	-0.584437457	9	3.51E+02	-0.567905103
WBGene00019769	-0.077419992	13	3.83E+00	-0.316590042
WBGene00019768	0.114350251	5	3.42E-01	0.583327803
WBGene00019767	0.00727356	6	7.35E-01	0.20506557
WBGene00019770	0.012564212	7	7.55E-01	0.441802885
WBGene00019771	0.277851211	46	1.09E-04	0.029548959
WBGene00023067	0.274144869	4	1.43E-01	0.32492662
WBGene00023068	0.785289008	3	1.52E-02	0.832287989
WBGene00006984	0.813950692	3	1.33E-02	1
WBGene00018798	0.21291303	7	1.44E-01	0.079387124
WBGene00018797	0.090337671	8	3.95E-01	-0.012925641

WBGene00019012	-0.013731144	12	1.47E+00	0.352627355
WBGene00019013	-0.087161712	9	2.35E+00	0.121843244
WBGene00002034	-0.645280359	10	1.24E+03	-0.289483736
WBGene00019011	0.214141526	17	4.57E-02	0.161434328
WBGene00019010	0.017924438	15	1.18E+00	-0.040535103
WBGene00019009	-0.132306562	4	1.39E+00	-0.054433736
WBGene00019008	-0.041852424	8	1.33E+00	0.319278403
WBGene00015303	0.075098931	44	6.63E-01	0.035558364
WBGene00017795	0.317088699	25	1.50E-03	0.113566519
WBGene00001592	0.436501556	11	6.48E-03	0.258665522
WBGene00017674	0.248184875	8	9.30E-02	1
WBGene00006774	0.471164785	10	6.06E-03	0.369403397
WBGene00017673	-0.007926083	4	6.94E-01	-0.20575054
WBGene00017672	-0.123975269	9	3.41E+00	0.101212588
WBGene00017671	0.460518487	17	6.59E-04	0.491542325
WBGene00017675	0.023465316	6	6.52E-01	0.148828783
WBGene00017676	-0.001701409	5	7.26E-01	0.052102123
WBGene00002075	0.169277803	20	7.93E-02	-0.023724847
WBGene00017886	0.206520224	12	8.89E-02	-0.112181654
WBGene00017888	0.183148066	9	1.55E-01	-0.094858807
WBGene00017885	0.254952679	54	8.77E-05	-0.112467726
WBGene00017889	0.088088028	6	4.05E-01	-0.129086913
WBGene00017887	0.151240234	7	2.40E-01	0.17820601
WBGene00001860	-0.064603697	20	8.29E+00	0.177701046
WBGene00044431	-0.135722939	2	9.55E-01	-0.002792039
WBGene00021015	-0.176085043	13	1.47E+01	-0.560617604
WBGene00021014	-0.228676303	11	1.72E+01	-0.261908523
WBGene00000155	-0.060516657	12	2.67E+00	0.142412356
WBGene00021016	-0.135443512	8	3.14E+00	-0.269544194
WBGene00044432	-0.506471494	8	9.43E+01	0.299204853
WBGene00004900	0.098153561	13	3.50E-01	0.591687764
WBGene00195069	-0.096522778	1	6.98E-01	0.288057951
WBGene00003906	-0.954415224	8	5.74E+03	-0.719022482
WBGene00021017	-0.086071647	6	1.46E+00	-0.352277139
WBGene00001117	-0.159333928	12	9.40E+00	0.000118333
WBGene00003221	-0.025584925	12	1.71E+00	-0.13833554
WBGene00001050	-0.20869068	10	1.04E+01	-0.587343145
WBGene00018792	-0.143676998	6	2.24E+00	-0.718132972
WBGene00006058	-1	8	1.10E+04	-1
WBGene00018789	-0.312116796	17	3.91E+02	-0.321329268
WBGene00018791	0.493309412	6	2.03E-02	0.4956845
WBGene00003934	1	7	6.81E-05	0.643169705
WBGene00016730	0.663152739	7	3.46E-03	0.272636365
WBGene00002979	-0.294686378	50	2.20E+07	-0.328481017
WBGene00016729	-0.744154486	2	9.73E+00	-1
WBGene00016731	-0.189677478	6	3.15E+00	-0.367894869
WBGene00016732	-0.776564596	8	1.12E+03	-0.28042578

WBGene00016733	-0.936122571	10	3.01E+04	-0.462529085
WBGene00016728	-0.107655947	7	2.04E+00	-0.159332683
WBGene00016734	0.009237505	12	1.10E+00	-0.123469513
WBGene00016727	0.09376295	1	4.00E-01	0.045079183
WBGene00016735	0.328315312	33	2.03E-04	0.211924926
WBGene00016258	0.289010603	14	2.16E-02	0.116964845
WBGene00002213	0.291316791	24	3.37E-03	0.169390166
WBGene00016259	-0.063825757	9	1.86E+00	0.068068631
WBGene00022465	-0.281960827	5	4.48E+00	-0.693754113
WBGene00004959	-0.085814755	18	9.29E+00	-0.312327326
WBGene00000502	0.237486145	7	1.17E-01	0.189355943
WBGene00003924	0.584661859	2	6.11E-02	0.373111396
WBGene00022460	-0.101882809	7	1.95E+00	-0.042981906
WBGene00000001	0.120390186	12	2.66E-01	-0.09326992
WBGene00045212	0.412539772	2	1.18E-01	-0.098698751
WBGene00022462	-0.321735836	16	3.20E+02	-0.156713488
WBGene00022463	0.126163132	19	1.93E-01	-0.048432113
WBGene00022459	-0.182126781	23	1.76E+02	-0.0150961
WBGene00003132	-0.066634907	17	5.73E+00	-0.372570929
WBGene00022458	-0.056955254	9	1.74E+00	-0.388989642
WBGene00022457	0.013571956	10	9.11E-01	-0.485121661
WBGene00022456	0.094842255	9	3.77E-01	0.043058139
WBGene00003475	0.478758802	7	1.59E-02	0.443503206
WBGene00022455	0.790093772	7	1.21E-03	0.679093296
WBGene00006797	0.463232189	20	2.29E-04	0.469599527
WBGene00022454	0.042325704	9	6.39E-01	-0.006057757
WBGene00004094	-0.162519369	18	3.72E+01	-0.661725475
WBGene00002804	0.13590556	13	2.09E-01	0.063061288
WBGene00001833	-0.453127488	32	6.11E+06	-0.702973434
WBGene00004955	-0.261592346	29	6.85E+03	-0.446765294
WBGene00003792	0.175592215	27	4.01E-02	-0.000837274
WBGene00018909	-0.234679865	9	1.04E+01	0.154918409
WBGene00000272	0.116077718	7	3.21E-01	-0.083785415
WBGene00018908	-0.012064639	14	1.72E+00	0.017244249
WBGene00016328	-0.840506719	15	6.63E+05	-0.318840192
WBGene00016329	-0.645063782	11	2.39E+03	-0.816052451
WBGene00004771	-0.074824347	23	1.57E+01	-0.166210728
WBGene00016330	-0.003257271	46	1.98E+01	0.080471467
WBGene00016327	-0.303018681	16	2.36E+02	-0.2585672
WBGene00015092	0.101912504	5	3.70E-01	0.232195744
WBGene00002583	0.033879224	80	1.99E+01	0.130741079
WBGene00015093	1	6	3.83E-04	0.388272198
WBGene00015094	-0.53287719	20	9.17E+04	-0.700021987
WBGene00015091	-0.094664868	10	2.98E+00	-0.001486566
WBGene00195057	-0.214815059	4	2.21E+00	0.163491765
WBGene00015095	0.489814549	7	1.45E-02	-0.098323994
WBGene00015096	0.06526771	4	4.61E-01	0.162428417

WBGene00015312	-0.194319609	5	2.53E+00	-0.400958249
WBGene00000540	-0.0643441	16	4.81E+00	0.03885958
WBGene00000965	0.230373576	8	1.09E-01	0.231277738
WBGene00001022	-0.121348877	4	1.31E+00	0.183974071
WBGene00001333	0.191640332	25	3.18E-02	0.346564782
WBGene00015313	0.835509568	6	1.62E-03	1
WBGene00002717	0.908369419	43	1.55E-15	0.694305933
WBGene00018596	0.514024275	2	8.00E-02	0.275708496
WBGene00018598	0.630323975	4	1.95E-02	0.606938528
WBGene00018599	0.665654601	4	1.60E-02	0.759419977
WBGene00018595	0.067918947	4	4.54E-01	0.618578026
WBGene00018594	-0.179153244	17	3.97E+01	-0.255434595
WBGene00004965	-1	7	7.05E+03	-0.9405893
WBGene00018601	-1	4	2.23E+02	-0.578597368
WBGene00195179	-0.862749086	2	1.53E+01	-0.480075451
WBGene00018600	-0.072434401	12	3.11E+00	-0.153897218
WBGene00018865	-0.023514382	7	1.02E+00	-0.128592282
WBGene00000150	0.029594762	5	5.92E-01	0.194882141
WBGene00018864	0.060307986	9	5.33E-01	0.057032002
WBGene00018866	0.251857724	14	3.71E-02	0.742766147
WBGene00000966	0.248649409	6	1.24E-01	0.197584569
WBGene00004087	0.399909694	15	3.27E-03	0.419135803
WBGene00018863	0.20297846	6	1.73E-01	0.617983479
WBGene00018867	1	5	7.16E-05	0.899625775
WBGene00004131	0.286130969	36	4.50E-04	0.730178009
WBGene00016041	0.117787523	8	3.07E-01	0.603067509
WBGene00016042	0.059233216	2	4.54E-01	0.299624279
WBGene00016043	0	2	5.69E-01	0
WBGene00016040	0.347923869	7	4.70E-02	-0.053228869
WBGene00001491	-0.014373973	19	2.79E+00	0.190286205
WBGene00000761	0.166627765	10	1.70E-01	0.217643481
WBGene00016278	0.009179803	11	1.02E+00	0.219893944
WBGene00017855	0.480689137	30	4.82E-06	0.489534056
WBGene00017854	0.317447199	6	7.44E-02	0.275197976
WBGene00017853	0.3194728	7	5.95E-02	0.114281099
WBGene00000230	0.000478114	6	7.73E-01	0.668082824
WBGene00017852	-0.026834602	6	9.46E-01	-0.024481581
WBGene00001067	0.1774505	2	2.89E-01	0.251893026
WBGene00017858	-0.418060663	30	8.48E+05	-0.296579396
WBGene00017851	-0.014172373	8	1.03E+00	-0.46789133
WBGene00017860	-0.000934044	3	6.17E-01	-0.000146753
WBGene00020262	-0.578534582	27	1.45E+07	-0.893835933
WBGene00001859	-0.154537723	20	4.96E+01	-0.069079401
WBGene00020263	0.002597853	25	3.17E+00	-0.185056085
WBGene00015635	0.208724392	18	4.50E-02	0.561633496
WBGene00004431	0.405713858	3	9.10E-02	0.537123832
WBGene00015636	-1	5	5.71E+02	-0.523695817

WBGene00206357	-0.283128442	2	1.68E+00	-0.045155062
WBGene00015634	-0.325345092	17	4.91E+02	-0.328397135
WBGene00015633	-0.127060195	1	7.63E-01	-0.234774612
WBGene00015632	-0.019872984	27	6.64E+00	-0.163070553
WBGene00019076	-0.157261838	7	3.08E+00	0.320323967
WBGene00019077	0.520757806	12	1.62E-03	-0.103003835
WBGene00019079	0.472158908	7	1.68E-02	0.446925278
WBGene00019075	-0.005848454	15	1.71E+00	-0.629765325
WBGene00185086	0.223125315	10	9.17E-02	-0.305032937
WBGene00194697	-0.489770719	4	1.03E+01	-0.137317305
WBGene00019080	-0.223521273	2	1.33E+00	-0.108944068
WBGene00019074	-0.517094788	32	4.32E+07	-0.541739108
WBGene00019081	-0.647929699	15	3.40E+04	-1
WBGene00019082	0.012821013	8	8.05E-01	-0.02123719
WBGene00019083	0.322902407	1	2.05E-01	-0.009775858
WBGene00006594	0.54336659	49	3.43E-10	0.577057967
WBGene00019693	1	4	1.22E-03	1
WBGene00019692	-0.203967434	7	4.54E+00	-0.231223921
WBGene00019713	-0.417855652	17	2.41E+03	-0.414741428
WBGene00000474	-0.355233739	10	5.18E+01	-0.138062886
WBGene00019712	-0.401223134	24	3.82E+04	-0.765221647
WBGene00002225	-0.094589166	16	7.88E+00	-0.595675103
WBGene00019711	0.294207337	8	6.10E-02	0.357407746
WBGene00019710	0.610624392	6	8.53E-03	0.716816957
WBGene00006508	0.513565083	68	9.65E-13	0.216768661
WBGene00006726	0.191437742	8	1.56E-01	0.141899645
WBGene00006919	0.554738845	4	2.97E-02	1
WBGene00018512	0.393654478	18	1.58E-03	0.538547174
WBGene00018509	-0.413324168	9	6.27E+01	-0.123758697
WBGene00000473	0.012392062	5	6.62E-01	0.265261479
WBGene00018510	-0.257859976	8	9.64E+00	0.069368731
WBGene00018513	-0.109886866	7	2.08E+00	-0.113365506
WBGene00018511	0.060963398	6	4.94E-01	-0.069650464
WBGene00018508	0.210772932	31	1.03E-02	0.258087516
WBGene00044616	-1	3	1.31E+02	-0.445159297
WBGene00000630	-0.319135673	5	5.70E+00	0.132198494
WBGene00018890	0.185561376	13	1.06E-01	0.361846322
WBGene00018891	0.248300135	12	5.22E-02	0.032565587
WBGene00018892	0.45371833	19	3.85E-04	0.051697216
WBGene00018893	-0.114007463	13	6.31E+00	-0.452172774
WBGene00018894	-0.073709119	3	8.70E-01	0.160146858
WBGene00018895	0.116815123	10	2.94E-01	-0.116972205
WBGene00004224	-0.301134858	11	4.05E+01	0.091905631
WBGene00018896	-0.000928978	2	5.71E-01	0.008087649
WBGene00018897	0.075816569	8	4.52E-01	0.023097112
WBGene00020558	0.498005837	10	4.51E-03	0.447156506
WBGene00001039	0.267302029	4	1.49E-01	0.38566779

WBGene00020557	0.446587357	8	1.51E-02	0.542822123
WBGene00006776	0.126008463	32	1.23E-01	0.361520614
WBGene00003793	0.759379413	21	3.49E-07	0.281243569
WBGene00020556	0.784075414	17	2.52E-06	0.985718109
WBGene00002989	-0.223698835	25	7.84E+02	-0.155970649
WBGene00015442	-0.371452388	6	1.21E+01	-0.248193217
WBGene00018994	-0.196401088	20	1.14E+02	-0.290686578
WBGene00206363	-0.020768646	3	6.78E-01	-0.599623629
WBGene00004505	0.637299804	12	3.67E-04	-0.415451324
WBGene00044305	-0.026267392	6	9.42E-01	0.403974195
WBGene00000493	-0.244378359	22	5.35E+02	-0.071456886
WBGene00018995	-0.181889226	28	5.82E+02	-0.056611124
WBGene00045483	-0.05247221	2	6.95E-01	-0.081683483
WBGene00020694	0.070925885	12	5.00E-01	-0.20789711
WBGene00020693	-0.267970653	17	1.83E+02	-0.178193787
WBGene00001856	0.447229772	6	2.85E-02	-0.385353431
WBGene00004393	0.069897685	17	5.46E-01	0.039478355
WBGene00000772	-0.101081565	9	2.71E+00	0.315804257
WBGene00001600	0.140802841	14	1.86E-01	-0.206720633
WBGene00003472	-0.009890641	23	3.62E+00	0.217777994
WBGene00015175	0.230885475	8	1.09E-01	0.533778499
WBGene00015176	-0.035650134	10	1.56E+00	0.121006523
WBGene00003020	-0.027692911	21	4.41E+00	-0.11823635
WBGene00016332	-0.514057753	5	2.02E+01	-0.341899969
WBGene00001973	-0.485654144	12	6.01E+02	-0.190660137
WBGene00003601	-0.208484324	5	2.78E+00	0.174819259
WBGene00016333	0.044020928	9	6.28E-01	0.120363596
WBGene00016331	0.025204222	15	1.06E+00	0.266563879
WBGene00018002	0.011466479	4	6.23E-01	0.052411613
WBGene00269382	-0.593557269	1	2.98E+00	0.533502245
WBGene00000436	0.363660394	7	4.13E-02	0.353830581
WBGene00000631	2	8	1.33E-08	2
WBGene00018003	0.296765647	8	5.95E-02	0.444108034
WBGene00018001	-0.094753223	8	2.16E+00	-0.00294482
WBGene00018004	-0.044174249	7	1.21E+00	0.002836739
WBGene00018000	-0.336055084	5	6.36E+00	0.098053747
WBGene00018005	-0.001413744	6	7.84E-01	0.455569506
WBGene00018006	0.030058049	15	9.80E-01	0.204692251
WBGene00018009	0.221296469	11	8.30E-02	0.223540094
WBGene00303057	0.378439635	1	1.74E-01	0.201626046
WBGene00018007	0.74518479	8	9.74E-04	1
WBGene00018008	0.412888469	5	4.92E-02	0.443669021
WBGene00016421	-0.100004694	12	4.42E+00	0.082949426
WBGene00016422	-0.620082615	21	9.77E+05	-0.358070727
WBGene00003996	0.07842657	24	4.97E-01	-0.074480239
WBGene00016420	0.035680677	5	5.69E-01	-0.092155009
WBGene00016419	-0.191834358	18	6.33E+01	-0.330695072

WBGene00004109	0.205425148	12	9.01E-02	0.551845268
WBGene00016418	-0.014735269	38	1.57E+01	0.249096777
WBGene00015028	-0.37604606	63	2.11E+11	-0.177857404
WBGene00015029	-0.126661687	8	2.89E+00	0.467585858
WBGene00000099	-0.257249725	12	3.27E+01	-0.306978929
WBGene00001676	-0.803013625	10	7.01E+03	-0.78026768
WBGene00015030	-0.176561586	9	5.79E+00	-0.147026272
WBGene00015031	0.160496549	1	3.29E-01	-0.076579313
WBGene00015027	-0.040782218	4	8.35E-01	-0.026910613
WBGene00015032	0.028243379	2	5.11E-01	0.107767692
WBGene00015033	0.152669859	2	3.18E-01	0.504847941
WBGene00015034	0.000286737	6	7.74E-01	-0.006167447
WBGene00015026	0.312160487	7	6.32E-02	-0.066287503
WBGene00000232	0.807118833	17	1.69E-06	0.733499905
WBGene00015504	0.038665617	23	1.21E+00	-0.033201861
WBGene00015501	0.119766241	23	1.94E-01	0.085780241
WBGene00004803	-0.061302436	10	2.07E+00	-0.178238624
WBGene00006823	0.055678569	31	1.03E+00	0.055554246
WBGene00044414	-0.130781794	11	5.38E+00	-0.167531725
WBGene00015500	-0.389255725	4	5.88E+00	-0.615075644
WBGene00015505	-0.200060807	6	3.40E+00	-0.009189209
WBGene00004380	-0.054585423	5	1.02E+00	0.011094382
WBGene00015499	0.105400297	30	2.39E-01	0.370469551
WBGene00000814	-0.056992527	9	1.74E+00	0.238530425
WBGene00194700	-0.081691	4	1.05E+00	0.508064224
WBGene00015001	-0.026112029	3	6.95E-01	0.06339018
WBGene00006932	0.195900314	17	6.25E-02	0.429007754
WBGene00016155	-0.316466658	12	6.96E+01	-0.600613492
WBGene00006492	0.247434433	9	8.11E-02	0.625729057
WBGene00016154	0.424095065	11	7.51E-03	0.47023781
WBGene00000429	0.266305657	11	4.87E-02	0.427412826
WBGene00016156	1	5	8.90E-04	1
WBGene00016157	0.367232684	9	2.43E-02	0.572368432
WBGene00016158	0.730240513	6	3.52E-03	0.896272064
WBGene00016159	0.140172853	19	1.48E-01	0.180527877
WBGene00023409	-0.150998503	7	2.93E+00	0.183617258
WBGene00022749	0.405169881	5	5.17E-02	0.221301916
WBGene00022750	0.324603013	30	4.32E-04	0.306521609
WBGene00001819	0.113990239	13	2.82E-01	0.440481378
WBGene00022751	-0.021682038	3	6.81E-01	0.145883427
WBGene00022752	0.697424846	6	4.49E-03	0.316662539
WBGene00022748	0.381200018	3	1.02E-01	0.827155727
WBGene00022753	0.100963287	9	3.54E-01	0.394538034
WBGene00022754	-0.636387577	4	2.35E+01	-0.056740936
WBGene00020840	-0.07746873	6	1.37E+00	0.033293654
WBGene00020841	0.11303574	5	3.44E-01	0.209745651
WBGene00006044	-0.200957576	5	2.65E+00	-0.260412611

WBGene00044611	0.462253273	3	6.97E-02	0.905971995
WBGene00020842	0.612933542	6	8.38E-03	0.90114259
WBGene00020843	-0.008801336	4	6.98E-01	0.010904115
WBGene00020839	0.32605643	16	8.24E-03	0.696669537
WBGene00020838	0.416892565	17	1.40E-03	0.087133628
WBGene00003878	2	20	5.40E-17	2
WBGene00018981	1	4	4.27E-04	1
WBGene00018982	0.259694591	4	1.55E-01	1
WBGene00018980	-0.006056185	8	9.57E-01	0.057158898
WBGene00018979	-0.162382714	3	1.32E+00	-0.162537726
WBGene00050896	-0.265116908	4	2.93E+00	-0.579736213
WBGene00018978	-0.461434251	5	1.44E+01	-0.678436725
WBGene00045498	-0.574048942	8	1.75E+02	0.389440828
WBGene00020379	0.304045725	17	9.73E-03	0.540410878
WBGene00020380	0.042358705	6	5.67E-01	0.610084321
WBGene00020381	0.471200509	10	6.05E-03	0.939261667
WBGene00020382	1	7	8.65E-05	0.890675739
WBGene00020378	-0.001872291	1	5.29E-01	-0.001153295
WBGene00020377	0.70073739	8	1.46E-03	0.450558925
WBGene00020383	0.123682068	6	3.11E-01	0.332829957
WBGene00000500	0.519196811	8	7.74E-03	0.601550911
WBGene00020376	0.611504837	9	2.08E-03	0.327157963
WBGene00020375	0.206968727	11	9.84E-02	0.772871299
WBGene00020259	0.487627478	27	1.15E-05	0.157755908
WBGene00020260	0.48311933	12	2.62E-03	-0.048966681
WBGene00000632	0.067030773	3	4.48E-01	-0.047430172
WBGene00020261	0.38366586	6	4.56E-02	0.228444429
WBGene00020258	-0.328873003	8	1.85E+01	0.333044191
WBGene00020347	0.877215233	16	1.03E-06	0.52029688
WBGene00020348	0.858485637	5	2.72E-03	0.723862808
WBGene00001497	1	10	2.35E-07	2
WBGene000206356	0.300225745	2	1.81E-01	0.560110017
WBGene00020346	0.695350371	21	1.32E-06	0.37463744
WBGene00004486	0.896685362	5	2.12E-03	0.12578871
WBGene00020349	0.473010803	9	8.38E-03	0.665410076
WBGene00020345	-0.112241846	8	2.54E+00	0.271662323
WBGene00020350	0.169699585	2	2.98E-01	0.536464174
WBGene00000633	-0.340545656	9	3.01E+01	-0.721955277
WBGene00016752	0.168690045	2	2.99E-01	-0.464861707
WBGene00016751	0.01089876	41	7.67E+00	0.190239423
WBGene00005000	0.132804325	6	2.91E-01	-0.51572391
WBGene00000583	0.026629805	6	6.37E-01	-0.024635635
WBGene00016754	0.111691851	1	3.80E-01	0.203974993
WBGene00003059	0.697706676	5	7.73E-03	0.127643254
WBGene00016750	-0.19434569	12	1.47E+01	0.267978984
WBGene00016749	0.286240511	11	3.84E-02	0.071269874
WBGene00016753	-0.206671927	7	4.64E+00	-0.139969598

WBGene00006689	-0.463440151	4	8.90E+00	-0.565028912
WBGene00015688	-1	8	1.91E+05	-1
WBGene00015689	0.049013793	6	5.40E-01	-0.295842527
WBGene00015687	0.640674288	16	4.87E-05	0.652250517
WBGene00015686	0.067546941	15	5.50E-01	0.36725365
WBGene00004068	-0.155250897	11	7.19E+00	-0.23910152
WBGene00005272	-0.074162076	3	8.72E-01	-0.099528529
WBGene00005274	-0.018064714	1	5.55E-01	0.014529254
WBGene00005273	-0.04133268	5	9.39E-01	0.019116807
WBGene00015690	-0.12616138	4	1.35E+00	-0.072305377
WBGene00015685	-0.175541715	5	2.24E+00	-0.146383117
WBGene00017817	-0.870089789	8	2.65E+03	-0.448825143
WBGene00000634	-0.451631141	6	2.18E+01	-0.740224416
WBGene00005171	-0.054244069	6	1.16E+00	0.072289354
WBGene00002073	-0.400902103	12	2.04E+02	-0.260840019
WBGene00017816	0.566286839	15	2.51E-04	-0.20316261
WBGene00002601	0.040206401	9	6.53E-01	0.592576368
WBGene00017815	-0.022969095	2	6.21E-01	-0.029108501
WBGene00194703	-0.441001776	2	3.06E+00	-0.378577063
WBGene00000254	0.159559687	55	9.91E-03	0.195872027
WBGene00003499	-0.140695327	11	6.05E+00	0.040258491
WBGene00019396	-0.079932705	3	8.96E-01	-0.021265836
WBGene00019395	0.352469449	8	3.57E-02	0.359923946
WBGene00019394	-0.016450912	4	7.28E-01	-0.09781434
WBGene00019399	0.089102477	12	3.97E-01	0.055290266
WBGene00022586	0.352921027	6	5.72E-02	-0.27292081
WBGene00001596	0.153026338	61	9.71E-03	-0.005875323
WBGene00022592	0.026214151	25	1.79E+00	0.303475148
WBGene00303104	0.046810883	1	4.59E-01	0.004898624
WBGene00022591	-0.003662855	3	6.25E-01	0.028466018
WBGene00022594	0.673495713	3	2.58E-02	0.117928921
WBGene00004721	-0.244860326	7	6.36E+00	0.062856136
WBGene00022593	-0.289825775	19	5.22E+02	-0.414159094
WBGene00019992	-0.123125747	1	7.54E-01	-0.102829075
WBGene00019993	-0.455121304	3	5.24E+00	-0.142067166
WBGene00018156	-0.053269219	17	4.55E+00	0.311059241
WBGene00018157	-0.123596571	10	4.10E+00	-0.083243069
WBGene00018158	-0.006258103	6	8.12E-01	-0.050489788
WBGene00004924	1	19	1.51E-12	1
WBGene00020742	0.037220239	19	1.05E+00	-0.015138729
WBGene00003798	0.224221932	37	3.30E-03	0.030490629
WBGene00020743	-0.154985486	11	7.17E+00	0.060661911
WBGene00004273	-0.318341698	4	3.95E+00	-0.286980793
WBGene00019432	-0.208696229	11	1.35E+01	0.083536966
WBGene00019433	-0.609219719	12	2.90E+03	-0.343055128
WBGene00019431	-0.526997378	3	7.35E+00	-0.192599657
WBGene00019430	-0.698247593	9	1.10E+03	-1

WBGene00000386	-0.243805129	12	2.76E+01	-0.629610887
WBGene00019429	-0.176136605	18	4.76E+01	0.252563635
WBGene00019434	-0.263674085	53	1.32E+07	-0.189365197
WBGene00016945	-0.309719427	8	1.55E+01	-0.456069117
WBGene00000937	0.009345681	9	8.91E-01	0.393778684
WBGene00007018	-0.667137695	7	2.10E+02	0.248595737
WBGene00016944	-0.399097301	7	2.28E+01	0.132735342
WBGene00016943	-0.7729428	10	5.04E+03	-0.466460187
WBGene00016942	-0.004246483	8	9.42E-01	-0.147696733
WBGene00016946	-0.205593962	9	7.75E+00	-0.12584393
WBGene00001627	0.315251491	7	6.16E-02	0.372838688
WBGene00016947	0.143341419	4	2.98E-01	-0.024597771
WBGene00001599	-0.353338041	19	1.74E+03	-0.362276777
WBGene00000483	-0.436442819	10	1.26E+02	-0.417064839
WBGene00020415	-0.021984008	2	6.19E-01	0.069207034
WBGene00020414	-0.48097968	13	9.41E+02	-0.501420315
WBGene00020416	0.245035439	4	1.68E-01	0.345022044
WBGene00020417	0.060727984	8	5.19E-01	-0.015041766
WBGene00271694	-0.037293836	3	7.33E-01	-0.113441595
WBGene00020413	-0.256049935	17	1.49E+02	-0.190827105
WBGene00020418	0.026549345	6	6.37E-01	0.403794357
WBGene00020412	-0.349370183	10	4.86E+01	-0.099907781
WBGene00020411	0.091637301	9	3.89E-01	0.51119683
WBGene00020419	-0.245056431	11	2.08E+01	-0.210978404
WBGene00019005	-0.223822978	8	7.05E+00	-0.076423561
WBGene00019006	0.565406794	5	1.83E-02	0.007728826
WBGene00019007	0.509280571	4	3.83E-02	0.576635911
WBGene00000896	0.451358524	2	1.02E-01	0.505475519
WBGene00006607	0.049463507	8	5.75E-01	0.021061594
WBGene00019004	0.052587767	13	6.51E-01	-0.142172226
WBGene00019003	-0.175979496	7	3.60E+00	-0.26257946
WBGene00000236	0.248481575	3	1.91E-01	0.128367137
WBGene00003184	0.437258046	5	4.20E-02	0.464180212
WBGene00019002	0.23822497	14	4.53E-02	0.331644664
WBGene00019001	0.328954319	13	1.50E-02	0.393824765
WBGene00002783	0.226989618	29	8.16E-03	0.282445969
WBGene00006624	-0.169474518	6	2.71E+00	0.071797641
WBGene00018582	-0.265447288	28	5.57E+03	-0.128156822
WBGene00017066	0.414997186	18	1.08E-03	0.270521303
WBGene00017065	0.392080665	10	1.44E-02	0.792272295
WBGene00006645	0.101468876	3	3.81E-01	0.217910834
WBGene00017068	-1	3	2.32E+02	-0.478313993
WBGene00000050	-0.1708095	9	5.46E+00	-0.023334436
WBGene00017064	0.018793409	7	7.17E-01	0.049005663
WBGene00044610	-0.21244396	5	2.85E+00	0.129976321
WBGene00017063	0.415751621	15	2.56E-03	0.813170245
WBGene00006625	-0.099407568	4	1.16E+00	-0.033758418

WBGene00195178	-0.474260622	5	1.56E+01	0.100996366
WBGene00022633	0.072150848	15	5.12E-01	0.517855829
WBGene00022632	-0.670108608	13	1.24E+04	-0.398385424
WBGene00022634	-0.558929534	9	2.71E+02	-0.505387499
WBGene00022631	-0.220007872	6	3.94E+00	-0.243393236
WBGene00022635	-0.405853391	24	4.26E+04	-0.060769214
WBGene00015907	0.134665895	2	3.40E-01	0.246076299
WBGene00015908	-0.075556963	3	8.77E-01	-0.079621787
WBGene00020712	-0.277637188	20	5.73E+02	0.173831692
WBGene00020713	0	2	5.69E-01	-0.038608184
WBGene00020714	-0.170256397	5	2.17E+00	-0.125056077
WBGene00255605	-0.457576036	4	8.62E+00	-0.131430651
WBGene00020710	-0.132666094	5	1.70E+00	0.224524879
WBGene00020709	0.055092036	9	5.62E-01	0.575147909
WBGene00020933	0.169513192	14	1.23E-01	0.676582504
WBGene00303103	-0.071686436	1	6.49E-01	0.824518532
WBGene00003170	-0.134242649	13	8.32E+00	-0.085768606
WBGene00002258	-0.606401033	5	3.68E+01	-0.18385307
WBGene00007057	-0.114480906	2	8.80E-01	-0.134094364
WBGene00002257	-0.984717394	5	4.30E+02	-0.277548827
WBGene00004883	0.042558414	9	6.38E-01	0.172290021
WBGene00020932	0.151698486	10	2.01E-01	0.085871409
WBGene00020931	0.737873584	3	1.90E-02	0.324647434
WBGene00020937	0.20405667	4	2.12E-01	-0.00156384
WBGene00006773	0.525249708	16	3.20E-04	0.670941856
WBGene00020935	-0.093115662	24	2.78E+01	-0.003847091
WBGene00020936	0.294050521	26	2.19E-03	0.264955428
WBGene00001682	0.244209425	5	1.47E-01	0.161249924
WBGene00017240	0.200448581	7	1.59E-01	-0.004576262
WBGene00017239	0.335758483	3	1.26E-01	0.447994172
WBGene00006819	0.961138411	25	2.32E-10	0.651735984
WBGene00004111	0.711073177	24	1.79E-07	0.553468314
WBGene00000871	2	13	7.23E-11	2
WBGene00016491	0.784029498	11	1.05E-04	0.59488625
WBGene00016492	1	6	1.87E-04	1
WBGene00016493	1	3	1.27E-03	1
WBGene00004110	0.432744584	30	1.92E-05	0.793993252
WBGene00016494	0.181871112	6	2.02E-01	0.678360141
WBGene00017098	0.335638266	16	7.05E-03	0.361611266
WBGene00019324	0.362355544	15	5.83E-03	0.664692752
WBGene00006740	-0.716937898	5	7.55E+01	-0.484764849
WBGene00019323	0.337155603	57	7.22E-07	0.330973657
WBGene00004778	0.720298218	12	1.27E-04	1
WBGene00019322	2	9	4.51E-08	1
WBGene00001056	0.263955822	18	1.66E-02	0.603249006
WBGene00001075	0.160175475	10	1.83E-01	-0.331031541
WBGene00019248	-0.113902189	10	3.68E+00	-0.773575409

WBGene00019247	-0.022423553	14	2.00E+00	-0.34973976
WBGene00019246	0.495841327	9	6.66E-03	0.100931752
WBGene00019245	0.543508224	7	9.31E-03	0.377464219
WBGene00001598	-1	19	3.06E+09	-2
WBGene00044898	-0.2585117	19	2.88E+02	-0.076604033
WBGene00020660	-0.962120712	6	9.46E+02	-0.216885439
WBGene00020661	-1	11	1.16E+06	-1
WBGene00020659	-0.663128834	13	1.13E+04	-0.742814178
WBGene00006423	0.024605993	25	1.86E+00	-0.139634307
WBGene00016742	0.181592053	10	1.45E-01	0.721459535
WBGene00016743	-0.175705294	7	3.59E+00	0.143922405
WBGene00004879	-0.048351435	32	2.55E+01	-0.008874387
WBGene00016741	0.091109273	6	3.96E-01	-0.069873425
WBGene00016740	-0.092015269	10	2.90E+00	-0.122682509
WBGene00016744	-0.285865198	15	1.28E+02	-0.25195897
WBGene00016746	-0.420421564	1	1.80E+00	-0.022948337
WBGene00016745	-0.182370472	4	1.84E+00	-0.438361558
WBGene00020399	0.298006333	7	7.11E-02	0.419057193
WBGene00020398	0.021299763	15	1.12E+00	-0.04577138
WBGene00020400	-0.150957604	9	4.47E+00	-0.627081248
WBGene00020401	-0.248566704	6	4.86E+00	-0.003215788
WBGene00020402	0.11336404	5	3.44E-01	-0.023827152
WBGene00020403	0.204372315	15	6.67E-02	-0.097337268
WBGene00020397	-0.738910678	4	4.17E+01	-0.320035958
WBGene00020404	0.040429332	12	7.38E-01	0.007069595
WBGene00016260	-0.333466317	18	8.22E+02	-0.311122277
WBGene00016261	0.5040442	9	6.13E-03	0.70297213
WBGene00016262	-0.559279295	4	1.52E+01	0.096565881
WBGene00016263	-0.188977845	4	1.91E+00	0.120747969
WBGene00016266	0.182288804	4	2.39E-01	0.291707971
WBGene00016265	-0.600053002	12	2.58E+03	-0.060462298
WBGene00016264	-0.0073994	20	2.66E+00	0.039510767
WBGene00010370	-0.311694669	21	1.61E+03	-0.246081212
WBGene00010369	0.070466599	31	6.64E-01	0.203823802
WBGene00003964	0.411342013	21	4.82E-04	0.268688499
WBGene00008852	0.22142359	29	9.53E-03	0.157045035
WBGene00004773	0.645937094	21	3.68E-06	0.502041476
WBGene00044988	0.007909447	3	5.92E-01	-0.010323895
WBGene00012164	0.145951422	2	3.26E-01	-0.143608642
WBGene00007024	0.337317896	9	3.28E-02	-0.050556943
WBGene00012165	-0.016432083	15	2.01E+00	0.208353171
WBGene00012166	-0.302049724	8	1.45E+01	-0.306053599
WBGene00012167	-0.436820483	9	7.94E+01	-0.55193278
WBGene00012168	-0.278174108	13	5.92E+01	-0.36606992
WBGene00002198	-0.49175585	14	1.83E+03	-0.262837569
WBGene00009050	0.614797095	5	1.32E-02	0.578236893
WBGene00003815	0.083787115	16	4.29E-01	-0.266962472

WBGene00009051	0.155485292	4	2.78E-01	0.617795419
WBGene00004186	0.201479528	16	6.29E-02	0.161664264
WBGene00009052	0.214621569	14	6.38E-02	0.142085322
WBGene00043279	-0.020411416	3	6.77E-01	0.057261499
WBGene00009054	0.259296884	11	5.29E-02	0.016134428
WBGene00009056	-0.023227716	2	6.22E-01	-0.113106821
WBGene00000636	-0.076693873	8	1.83E+00	-0.1931046
WBGene00001643	-0.021252944	6	9.07E-01	0.526914905
WBGene00001644	-0.29636611	6	6.92E+00	-0.309075098
WBGene00010740	-0.610955251	8	2.46E+02	-0.784281944
WBGene00001614	-0.662383172	15	4.25E+04	-0.583802344
WBGene00219281	0.718802675	2	3.66E-02	0.81130872
WBGene00006753	0.537223887	18	1.18E-04	0.559451511
WBGene00006394	-0.033172938	4	8.00E-01	-0.533622228
WBGene00010738	-0.043099841	11	1.90E+00	0.01302102
WBGene00010427	-0.132963074	24	7.08E+01	0.09358351
WBGene00010645	-0.388261601	12	1.74E+02	0.081671237
WBGene00010641	0.315090987	15	1.21E-02	0.375249943
WBGene00006963	-0.345175897	6	9.93E+00	-0.668323906
WBGene00010642	-0.221358023	15	4.73E+01	-0.243486141
WBGene00010643	-0.943411909	6	8.24E+02	-0.266010576
WBGene00010644	-0.403762095	9	5.69E+01	-0.877023272
WBGene00010870	-0.052308101	6	1.14E+00	-0.122971817
WBGene00194654	-0.410166421	5	1.03E+01	-0.108990294
WBGene00010869	-0.090469494	9	2.43E+00	-0.164507623
WBGene00010873	0.042608485	7	5.89E-01	0.027142896
WBGene00010871	0.035359846	15	9.03E-01	0.029405824
WBGene00010872	0.009751948	11	1.02E+00	-0.039651752
WBGene00001949	-0.166145491	9	5.21E+00	-0.255548258
WBGene00000637	0.05558239	4	4.87E-01	0.231423212
WBGene00007252	-0.118065083	9	3.21E+00	0.332551584
WBGene00007253	-0.120703878	4	1.31E+00	0.122100656
WBGene00007254	-0.32854091	5	6.06E+00	0.005362241
WBGene00003622	-0.17332954	24	1.82E+02	-0.087659928
WBGene00007255	0.056124726	5	4.99E-01	-0.044862369
WBGene00007256	0.441104756	12	4.47E-03	0.57318026
WBGene00007257	0.354456107	7	4.45E-02	0.056707144
WBGene00007258	-0.173568638	21	9.13E+01	-0.427786423
WBGene00011062	-0.51839187	3	7.06E+00	0.011621769
WBGene00011061	-0.568186387	18	5.75E+04	0.158403846
WBGene00000963	-0.513062879	17	1.24E+04	-0.035703532
WBGene00011063	-0.179030109	6	2.91E+00	0.007866015
WBGene00011065	0.472224181	4	4.72E-02	0.933908869
WBGene00011064	0.558673121	12	1.00E-03	0.677415283
WBGene00003041	-0.090816811	9	2.44E+00	-0.089325313
WBGene00000275	-0.504069839	20	5.17E+04	-0.888573814
WBGene00011066	-0.848762848	14	3.27E+05	-0.809135084

WBGene00002348	-1	50	4.02E+22	-1
WBGene00006656	-0.607017021	18	1.16E+05	-0.482368022
WBGene00009001	0.0174973	16	1.27E+00	0.302281584
WBGene00077548	1	5	4.85E-04	1
WBGene00009002	2	4	1.09E-04	1
WBGene00004324	1	9	3.40E-07	2
WBGene00009004	0.919473649	5	1.83E-03	0.924849536
WBGene00009005	-0.212849993	6	3.74E+00	-0.151006352
WBGene00008762	-0.187176005	7	3.95E+00	-1
WBGene00005131	-0.076796521	7	1.58E+00	0.436584409
WBGene00008770	0.052833475	3	4.79E-01	0.131982145
WBGene00008763	-0.03300718	11	1.69E+00	-0.049664091
WBGene00008764	0.726937853	3	2.01E-02	0.920435722
WBGene00008765	0.583476534	9	2.76E-03	-0.063350432
WBGene00008766	0.19583513	5	2.01E-01	0.584826268
WBGene00008767	0.204317984	5	1.90E-01	0.289238909
WBGene00303055	0.008709451	1	5.13E-01	0.508068148
WBGene00008769	0.411191531	5	4.97E-02	0.248422015
WBGene00001136	-0.040545459	9	1.47E+00	0.081090468
WBGene00003236	0.517261086	4	3.67E-02	-0.022504258
WBGene00008768	0.193011143	4	2.25E-01	-0.048500874
WBGene00009915	-0.130683916	6	2.04E+00	0.873928296
WBGene00001680	0.489049729	8	1.02E-02	0.686117883
WBGene00009916	0.510232844	5	2.61E-02	0.040033019
WBGene00009917	0.881470739	22	1.36E-08	0.974686816
WBGene00009918	0.894076978	6	1.05E-03	1
WBGene00009919	-0.731200881	9	1.54E+03	-0.371224393
WBGene00002136	-0.175473567	10	7.23E+00	0.093757851
WBGene00008541	-0.491270032	12	6.46E+02	-0.158585108
WBGene00008542	-0.276796027	7	8.29E+00	-0.438158479
WBGene00008543	0.007061441	3	5.95E-01	0.00272458
WBGene00006306	0.796970636	42	2.64E-13	0.825208512
WBGene00006754	1	32	7.64E-18	0.440611115
WBGene00007597	-0.076706747	17	6.81E+00	-0.057025267
WBGene00000612	-0.581689551	4	1.73E+01	-0.076707869
WBGene00004944	0.16169673	20	9.22E-02	0.469765647
WBGene00007598	-0.033058053	2	6.45E-01	-0.042899415
WBGene00000596	-0.726113676	4	3.88E+01	-0.390035158
WBGene00000638	-0.716837654	5	7.54E+01	-0.571384306
WBGene00007599	-0.280234166	7	8.53E+00	-0.183069109
WBGene00006752	0.992555414	93	1.43E-34	0.990756167
WBGene00004958	-0.312545857	13	9.46E+01	-0.146212179
WBGene00003074	-0.336466152	18	8.67E+02	-0.335588583
WBGene00013994	0.476622749	23	6.19E-05	0.436397896
WBGene00012136	0.194800475	15	7.73E-02	0.093432334
WBGene00012137	-0.352756301	11	7.47E+01	-0.279636483
WBGene00012138	-0.449553246	11	2.35E+02	-0.597559702

WBGene00012139	0.004202716	36	6.87E+00	-0.055574489
WBGene00271567	-0.235467804	4	2.48E+00	-0.310416139
WBGene00012140	0.763990524	7	1.50E-03	0.846532925
WBGene00007042	0.703664687	31	4.50E-09	0.922477121
WBGene00007742	-0.239499617	13	3.50E+01	-0.262629033
WBGene00007740	0.419401583	3	8.53E-02	0.034221501
WBGene00007741	0.095082143	7	3.81E-01	0.252907181
WBGene00077553	0.90591721	3	8.64E-03	-0.318863203
WBGene00007743	0.020192495	3	5.59E-01	-0.008683547
WBGene00001648	1	13	4.57E-07	1
WBGene00003552	-0.601004542	14	8.93E+03	-0.171128088
WBGene00007739	-0.107830992	13	5.80E+00	0.179632189
WBGene00000938	0.28353202	20	8.17E-03	0.663213497
WBGene00012029	0.019565384	2	5.28E-01	-0.094593416
WBGene00000496	-0.310515249	20	1.10E+03	-0.332325099
WBGene00012030	0.182432127	5	2.20E-01	0.351086155
WBGene00012031	0.316786481	13	1.78E-02	0.671838271
WBGene00008411	-0.325817882	15	2.37E+02	-0.256082315
WBGene00008412	0.056425669	14	6.35E-01	0.004907021
WBGene00008413	0.382590736	11	1.23E-02	0.371374782
WBGene00008414	0.248268228	3	1.91E-01	-0.113870741
WBGene00008415	-0.025348642	3	6.93E-01	0.744037538
WBGene00008421	-0.065880506	7	1.45E+00	0.203997217
WBGene00004178	-0.232444399	22	4.13E+02	-0.052688307
WBGene00008417	0.085898384	6	4.11E-01	-0.002808971
WBGene00008420	0.127157868	3	3.38E-01	0.355419194
WBGene00008418	0.326553995	14	1.25E-02	0.472235501
WBGene00008419	0.524386777	25	9.64E-06	0.265852144
WBGene00000084	-0.296144631	21	1.17E+03	-0.406839276
WBGene00003071	-0.700950109	100	7.04E+30	-0.78635917
WBGene00009254	0.150575398	25	8.65E-02	0.098656705
WBGene00009140	0.325192756	6	7.02E-02	0.463867517
WBGene00009141	-0.077249939	7	1.59E+00	-0.816338911
WBGene00004508	-0.02425639	29	9.08E+00	-0.28350983
WBGene00001214	-0.196332152	26	5.19E+02	-0.144395907
WBGene00009142	0.698294317	7	2.59E-03	0.260553053
WBGene00009143	-0.274776379	13	5.65E+01	-0.345937308
WBGene00009144	-0.106579467	7	2.03E+00	0.097896237
WBGene00009145	-0.023666537	11	1.51E+00	0.39304827
WBGene00011975	-0.168985359	11	8.46E+00	-0.084216781
WBGene00011972	-0.03932467	14	2.55E+00	0.19378667
WBGene00011970	-0.101102332	27	5.55E+01	0.240108455
WBGene00011971	-0.047504935	13	2.55E+00	0.292205459
WBGene00011969	0.250373311	4	1.63E-01	0.503256653
WBGene00001595	-0.546076823	12	1.30E+03	-0.31805215
WBGene00011973	0.117772735	2	3.63E-01	-0.550737571
WBGene00001647	-0.049798211	6	1.12E+00	-0.304402522

WBGene00077728	0.516364163	2	7.93E-02	0.281293003
WBGene00011968	-0.014228412	5	7.87E-01	0.254345214
WBGene00009187	0.289455355	10	4.43E-02	0.515994662
WBGene00009188	0.994887236	11	8.67E-06	0.863263225
WBGene00303056	0.765785009	1	5.61E-02	0.606609067
WBGene00009191	0.122891737	3	3.45E-01	0.002317999
WBGene00009189	0.188522812	8	1.61E-01	-0.011105012
WBGene00006518	0.50534551	10	4.16E-03	0.803061857
WBGene00077543	0.374268658	3	1.06E-01	0.492996842
WBGene00009190	-0.071949596	25	1.95E+01	-0.125556584
WBGene00010291	-0.81253489	4	6.29E+01	-0.304916828
WBGene00003818	0.812991042	16	2.93E-06	0.54388066
WBGene00000079	0.226722419	17	3.68E-02	0.822867029
WBGene00012151	0	21	2.48E+00	0.013124723
WBGene00008397	-0.012940743	3	6.53E-01	0.762368375
WBGene00008401	-0.250297983	21	4.50E+02	-0.161068334
WBGene00003746	0.288957922	10	4.46E-02	-0.579698924
WBGene00008398	-0.046637406	4	8.62E-01	-0.601320477
WBGene00008399	-0.258239326	15	8.36E+01	-0.43970704
WBGene00086551	-0.940076686	4	1.29E+02	-0.6576766
WBGene00008400	-0.241470435	19	2.08E+02	-0.115286228
WBGene00009271	-0.028375985	22	4.96E+00	0.203780912
WBGene00009270	-0.106792862	13	5.72E+00	-0.132175342
WBGene00009272	0.837753971	6	1.59E-03	0.376642935
WBGene00009276	0.116973685	10	2.94E-01	0.344335932
WBGene00009277	0.163262722	23	7.28E-02	0.299565165
WBGene00009274	0.343575722	5	7.71E-02	0.262254806
WBGene00006386	0.09334386	14	3.71E-01	0.15708026
WBGene00000163	0.170212135	17	9.73E-02	0.652266933
WBGene00011230	-0.306609682	10	3.04E+01	-0.05323289
WBGene00011231	0.189306632	6	1.92E-01	0.161855846
WBGene00011232	-0.022698945	23	4.83E+00	-0.348866793
WBGene00011234	0.012741452	2	5.42E-01	-0.290079093
WBGene00011235	-0.212105302	16	5.36E+01	-0.393621847
WBGene00010110	0.263473958	6	1.11E-01	0.043058248
WBGene00010111	-0.471850414	19	1.66E+04	-0.133268891
WBGene00006790	-0.024215961	14	2.05E+00	-0.170233259
WBGene00010114	0.328335961	5	8.51E-02	0.05950855
WBGene00010113	-0.073767894	23	1.53E+01	-0.047819174
WBGene00008991	0.029503387	9	7.27E-01	0.041373907
WBGene00008990	-0.021315126	37	1.81E+01	0.060362323
WBGene00003777	0.236247238	42	1.11E-03	-0.281332695
WBGene00011912	0.39116467	7	3.29E-02	0.055169491
WBGene00011913	0.608900094	5	1.38E-02	-0.136060817
WBGene00011914	0.289280259	11	3.71E-02	-0.228766255
WBGene00011915	-0.381551542	2	2.44E+00	-0.094785613
WBGene00011916	-0.295383339	5	4.89E+00	-0.131808399

WBGene00011917	0.852321909	10	9.30E-05	-0.138937717
WBGene00002179	1	22	1.48E-10	0.482000965
WBGene00011918	-0.501067133	13	1.24E+03	-0.583187061
WBGene00011919	-0.104670424	8	2.37E+00	-0.329287348
WBGene00011921	-0.124069569	4	1.33E+00	-0.194107446
WBGene00004318	0.020192551	39	4.76E+00	0.133198735
WBGene00011920	-0.166499853	6	2.65E+00	0.180106962
WBGene00010366	-0.250047623	18	1.82E+02	-0.454829944
WBGene00271605	-0.172611344	15	2.23E+01	-0.31535736
WBGene00010367	-0.109403358	25	4.85E+01	-0.183135167
WBGene00008315	-0.031997463	2	6.43E-01	0.124432597
WBGene00008314	-0.446946927	23	6.94E+04	-0.536775986
WBGene00008313	-0.991248409	10	5.51E+04	-0.227589157
WBGene00008312	-0.916416181	14	8.73E+05	-0.644621826
WBGene00008311	0.211929842	7	1.45E-01	0.118520826
WBGene00008317	0.491126044	17	3.89E-04	0.250372937
WBGene00008316	0.815776798	4	6.89E-03	0.312542651
WBGene00000869	-0.293816132	6	6.79E+00	0.375149876
WBGene00008318	0.693793915	3	2.34E-02	0.384033566
WBGene00010560	0.260955427	7	9.66E-02	0.345745425
WBGene00045192	0.120594541	5	3.28E-01	0.391613985
WBGene00010562	0.191537084	11	1.18E-01	0.295643269
WBGene00010563	0.04793634	6	5.44E-01	0.815002216
WBGene00010564	0.0325343	7	6.40E-01	0.444991762
WBGene00010569	0.007539211	3	5.93E-01	0.479726584
WBGene00010565	0.226100862	12	6.92E-02	-0.0434742
WBGene00077768	-0.453679592	3	5.20E+00	-0.231834925
WBGene00010566	-0.005938812	8	9.56E-01	0.184766432
WBGene00000156	0.306046748	26	1.61E-03	0.275202205
WBGene00010567	-0.568092578	6	5.15E+01	0.031096812
WBGene00010568	-0.310005252	6	7.66E+00	-0.173821352
WBGene00008935	-0.146254504	6	2.28E+00	-0.58352459
WBGene00000485	-0.400656271	76	2.54E+14	-0.269143359
WBGene00004378	0.004406661	39	8.51E+00	0.089106083
WBGene00008934	-0.031541098	5	8.81E-01	0.201770438
WBGene00005009	-0.00397644	18	2.11E+00	0.066420393
WBGene00002999	0.209666574	23	2.56E-02	0.356724455
WBGene00003136	-0.447303494	12	3.69E+02	-0.252681002
WBGene00012113	0.027222511	9	7.44E-01	-0.732279207
WBGene00012116	-0.598118362	9	4.03E+02	0.018450205
WBGene00002101	-0.000659563	4	6.67E-01	0.000771487
WBGene00044122	-0.856902491	5	1.87E+02	-0.360876842
WBGene00012114	-0.670081214	37	1.37E+11	-0.577483515
WBGene00012115	-0.916110781	37	7.62E+14	-0.647241538
WBGene00023413	0.014423164	1	5.05E-01	0.018563513
WBGene00008570	0.230518134	82	8.24E-06	0.308977691
WBGene00023411	-0.041661047	3	7.48E-01	0.110151626

WBGene00011379	-0.020532457	4	7.45E-01	-0.240531173
WBGene00011378	-0.087525716	10	2.76E+00	-0.237600789
WBGene00000967	-0.168843389	29	5.14E+02	-0.110206508
WBGene00011376	-0.229213111	23	5.10E+02	-0.133461418
WBGene00011375	0.572156686	12	8.42E-04	0.65069982
WBGene00004966	0.955440738	5	1.45E-03	0.649008165
WBGene00013955	0.247959227	25	8.08E-03	0.180227568
WBGene00011380	0.259704637	3	1.81E-01	0.129652586
WBGene00013956	-0.335999409	5	6.36E+00	-0.186842244
WBGene00000639	-0.140995192	6	2.20E+00	0.284949003
WBGene00000433	-0.001195634	4	6.69E-01	-0.006271122
WBGene00044094	1	7	3.09E-05	0.865477086
WBGene00013958	0.717101816	4	1.20E-02	0.817379249
WBGene00013957	0.191839023	4	2.27E-01	0.269289529
WBGene00013959	0.279170664	11	4.18E-02	0.180817912
WBGene00013960	-0.383784492	22	1.10E+04	-0.135639709
WBGene00011344	-0.01846331	40	2.17E+01	0.143998318
WBGene00011345	-0.065443661	16	4.90E+00	0.018425389
WBGene00002196	0.1467291	12	1.90E-01	0.397165466
WBGene00003788	0.008862928	10	9.60E-01	-0.343502982
WBGene00003183	-0.125374581	4	1.34E+00	0.363176568
WBGene00009920	0.881431617	30	4.66E-11	0.76110081
WBGene00009923	-0.005338352	7	8.76E-01	0.132448382
WBGene00009921	0.047493505	6	5.46E-01	0.153185261
WBGene00009922	0.107388194	32	2.18E-01	-0.044493366
WBGene00000467	0.010312617	9	8.82E-01	0.243086653
WBGene00004439	0.449339219	3	7.41E-02	0.010152767
WBGene00007911	0.267286049	8	7.80E-02	0.386807777
WBGene00007914	0.169771943	10	1.65E-01	0.169258539
WBGene00007912	-0.08038571	17	7.25E+00	0.31228551
WBGene00007913	-0.308088047	17	3.65E+02	-0.236292611
WBGene00006531	-0.842272144	13	1.30E+05	-0.418873452
WBGene00004684	0.139193587	18	1.58E-01	0.208531886
WBGene00008887	-0.073395526	25	2.02E+01	0.078486227
WBGene00008889	-0.337733251	6	9.40E+00	-0.233270871
WBGene00011827	0.302847844	49	2.07E-05	0.096627824
WBGene00008890	0.469521408	12	3.11E-03	-0.212570094
WBGene00003596	0.117492221	15	2.55E-01	0.309699789
WBGene00011828	0.261179742	8	8.25E-02	-0.040067564
WBGene00011829	-0.050840275	5	9.98E-01	0.03131548
WBGene00008529	-0.864402215	11	3.21E+04	-0.458789043
WBGene00008528	0.027781602	2	5.12E-01	0.043093244
WBGene00003014	0.129704882	8	2.76E-01	0.568809513
WBGene00008531	-0.230983291	12	2.34E+01	0.105406165
WBGene00004117	0.037414973	31	1.77E+00	0.226651104
WBGene00004931	0.071368616	64	1.02E+00	0.272475166
WBGene00008530	0.250539844	4	1.63E-01	1

WBGene00008533	0.312494109	7	6.31E-02	0.279104849
WBGene00008532	0.002317275	24	2.96E+00	0.127785427
WBGene00008648	0.256657061	11	5.46E-02	0.223856393
WBGene00008649	-0.013834704	5	7.85E-01	-0.038020576
WBGene00008650	-0.615290711	4	2.08E+01	-0.04825597
WBGene00008651	-0.953019264	12	2.32E+05	-0.851550695
WBGene00008652	-0.188230183	16	3.63E+01	-0.146976967
WBGene00006844	0.763774523	6	2.75E-03	0.841532416
WBGene00008381	-0.259306014	21	5.42E+02	-0.151183801
WBGene00045508	-0.377943548	6	1.26E+01	-0.233999329
WBGene00050879	-1	4	2.33E+02	-0.437068173
WBGene00086554	-0.004429146	3	6.28E-01	-0.028060933
WBGene00008382	0	2	5.69E-01	0
WBGene00008383	-0.352360679	6	1.05E+01	-0.473975064
WBGene00008384	-0.019634628	11	1.44E+00	-0.239053104
WBGene00008387	0.095935217	7	3.79E-01	-0.247581601
WBGene00008385	-0.304111615	16	2.40E+02	-0.543076638
WBGene00008386	0.000858496	17	1.79E+00	0.212767001
WBGene00000431	0.243820927	7	1.11E-01	0.116099927
WBGene00010496	0.431117392	8	1.74E-02	-0.21020318
WBGene00010495	-0.019800918	7	9.87E-01	-0.424489416
WBGene00010497	-0.069440293	12	2.99E+00	-0.174716411
WBGene00010498	-0.304259456	33	9.11E+04	0.080026755
WBGene00010499	-0.796611784	4	5.75E+01	-0.544498152
WBGene00044679	-0.138791983	8	3.23E+00	-0.057815869
WBGene00010500	0.222185808	4	1.91E-01	0.364773879
WBGene00006976	3	6	1.46E-09	3
WBGene00001677	0.523400173	7	1.10E-02	0.379837099
WBGene00010855	0.048409089	7	5.61E-01	0.027180591
WBGene00010854	-0.867338577	5	2.00E+02	-0.79023929
WBGene00001651	0.127013702	81	2.06E-02	0.088892232
WBGene00011353	0.192623784	6	1.87E-01	0.178555541
WBGene00011352	0.283171126	29	1.70E-03	-0.30824056
WBGene00000904	-0.042870131	17	3.80E+00	0.693116465
WBGene00004305	0.557416588	5	1.92E-02	0.377005257
WBGene00011033	0.966971682	6	6.13E-04	0.718606738
WBGene00011037	0.209281889	13	7.69E-02	0.379233776
WBGene00011034	0.317530297	9	4.01E-02	-0.045627356
WBGene00011032	0.47166149	13	2.15E-03	0.326355114
WBGene00011035	0.05486533	11	5.96E-01	0.347046776
WBGene00011036	0.385646027	14	5.32E-03	-0.226900983
WBGene00009673	0.000920666	1	5.25E-01	-0.016576353
WBGene00009664	-0.032562156	5	8.87E-01	0.226928116
WBGene00009665	0.40707471	4	6.79E-02	0.658622144
WBGene00009667	0.602456288	10	1.44E-03	0.553283127
WBGene00009666	-0.330956113	10	3.97E+01	-0.108573696
WBGene00009668	0.2316573	5	1.59E-01	0.922726206

WBGene00219282	0.103403774	2	3.83E-01	0.495743729
WBGene00009670	-0.10664981	4	1.21E+00	-0.069109541
WBGene00001414	-1	66	1.29E+39	-1
WBGene00000468	-0.3049535	4	3.66E+00	0.323580875
WBGene00000777	-0.296873059	8	1.38E+01	-0.327095807
WBGene00009671	0.393661923	11	1.08E-02	0.163278248
WBGene00009672	0.085378026	15	4.18E-01	0.170378118
WBGene00012150	0.026603644	6	6.37E-01	0.11175101
WBGene00000890	0.11326414	20	2.41E-01	0.051099859
WBGene00009562	-0.540213269	5	2.40E+01	-0.897898959
WBGene00045237	-0.141999693	6	2.21E+00	-0.137052269
WBGene00006377	0.243601751	3	1.95E-01	0.503748543
WBGene00009563	0.689994763	7	2.77E-03	0.311697954
WBGene00010620	0.055634057	10	5.75E-01	0.075240449
WBGene00086557	-0.026715873	7	1.05E+00	-0.043877629
WBGene00010621	-0.643456866	27	7.93E+07	-0.476586279
WBGene00001990	0.149807384	9	2.17E-01	0.086860988
WBGene00010622	0.057792353	7	5.19E-01	0.151976271
WBGene00010624	-0.052535394	4	8.91E-01	0.101017603
WBGene00000209	0.072415691	1	4.26E-01	0.732588008
WBGene00010623	0.160634262	9	1.94E-01	0.361979651
WBGene00003953	0.716615375	6	3.90E-03	0.597451032
WBGene00009565	0.239073395	7	1.16E-01	0.530821416
WBGene00006577	0.080214997	19	4.63E-01	0.410920395
WBGene00000409	0.084688125	9	4.17E-01	0.586735201
WBGene00000527	0.301933462	45	4.66E-05	0.536661067
WBGene00003925	0.221568689	8	1.19E-01	0.455753069
WBGene00007971	0.173064228	5	2.33E-01	-0.005003011
WBGene00044614	0.673531439	4	1.53E-02	0.529750056
WBGene00044120	-0.161627267	3	1.32E+00	0.247411101
WBGene00007973	-0.338406719	8	2.02E+01	-0.084523536
WBGene00007972	-0.235847404	7	5.91E+00	0.160043536
WBGene00007974	0.015858741	4	6.08E-01	0.041136704
WBGene00007975	0.328282419	15	9.86E-03	0.384607545
WBGene00007976	0.276109219	12	3.66E-02	0.249953589
WBGene00007977	-0.026230538	7	1.04E+00	0.221207898
WBGene00007979	0.069879037	14	5.22E-01	0.156476365
WBGene00007978	0.08978496	7	3.99E-01	0.640211315
WBGene00008440	0.193683899	3	2.47E-01	0.63253953
WBGene00006574	0.041855475	5	5.47E-01	0.102562276
WBGene00003052	1	17	1.12E-08	0.860231858
WBGene00001960	-0.022974583	6	9.19E-01	0.289459245
WBGene00006618	-0.251667276	4	2.72E+00	-0.091815409
WBGene00004115	-0.233698684	11	1.82E+01	-0.2908873
WBGene00008439	-0.07869548	15	5.24E+00	0.018828233
WBGene00006324	0.415120576	21	4.45E-04	0.073332442
WBGene00009453	-0.627181871	14	1.31E+04	-0.292673353

WBGene00009452	0.067475424	12	5.23E-01	0.269572876
WBGene00009451	0.081501962	12	4.37E-01	0.172961433
WBGene00009455	0.509120273	12	1.88E-03	0.746534642
WBGene00006682	0.831646885	10	1.17E-04	1
WBGene00009454	0.026973848	5	6.02E-01	0.538298818
WBGene00004484	0.360597102	5	6.90E-02	-0.356565289
WBGene00009456	0.03215881	16	9.96E-01	-0.059559008
WBGene00009457	0.343563805	9	3.08E-02	-0.167175002
WBGene00009458	-0.317680797	11	4.93E+01	-0.628251919
WBGene00023490	0.177265832	4	2.46E-01	0.045764422
WBGene00009459	-0.23594061	3	1.87E+00	-0.14835753
WBGene00009460	0.471472761	53	2.33E-09	0.265294829
WBGene00009250	-0.663121081	1	3.66E+00	0.39213813
WBGene00009251	0.169319369	1	3.21E-01	-0.080134055
WBGene00009252	0.2236068	4	1.90E-01	0.007586949
WBGene00002035	0.094528475	16	3.60E-01	0.228594246
WBGene00010137	-0.133996912	29	1.94E+02	-0.032026759
WBGene00219283	0.014386604	6	6.97E-01	0.488308481
WBGene00010133	-0.086749171	2	7.92E-01	-0.188236297
WBGene00010136	-0.064493458	6	1.25E+00	-0.159010701
WBGene00004901	-0.298707506	15	1.56E+02	-0.288158179
WBGene00010134	-0.388475553	45	2.10E+08	-0.377978237
WBGene00010135	-0.791396247	7	5.87E+02	-0.245585384
WBGene00006765	0.074742684	9	4.61E-01	0.640638654
WBGene00011631	0.403961277	15	3.07E-03	0.083480408
WBGene00011629	0.450501009	46	6.38E-08	0.515926348
WBGene00044684	-0.070965515	6	1.31E+00	-0.072371981
WBGene00011630	-0.246018949	14	5.14E+01	-0.32017586
WBGene00006641	0.100983734	7	3.63E-01	0.062664092
WBGene00009958	0.626485183	25	8.03E-07	0.621533955
WBGene00009964	0.005251716	1	5.18E-01	0.012172942
WBGene00009963	0.005251716	1	5.18E-01	0.012172942
WBGene00009959	-0.152065067	5	1.93E+00	-0.319614409
WBGene00009962	0.04139918	15	8.23E-01	-0.088983645
WBGene00219450	0.002584552	10	1.03E+00	-0.138823629
WBGene00009960	-0.024534552	7	1.03E+00	-0.171615568
WBGene00009961	-0.400374076	10	8.50E+01	-0.521801288
WBGene00043049	-0.358088741	7	1.62E+01	-0.364584021
WBGene00001568	0.214148882	14	6.42E-02	0.215870068
WBGene00007026	-0.019374325	3	6.73E-01	-0.021514812
WBGene00004953	0.083210095	9	4.24E-01	-0.05630885
WBGene00009346	0.165528688	4	2.63E-01	-0.263341469
WBGene00009341	-0.076485297	10	2.44E+00	-0.108538167
WBGene00050880	-0.049784698	5	9.92E-01	-0.400519648
WBGene00009342	-0.975921333	60	1.86E+25	-0.667918481
WBGene00009345	-0.048529932	15	3.29E+00	-0.102407157
WBGene00006532	-0.488621903	16	4.88E+03	-0.589404413

WBGene00009344	-0.505045108	7	5.48E+01	-0.6360495
WBGene00009343	-1	11	1.09E+06	-1
WBGene00009480	-0.612616701	6	7.16E+01	-0.086278093
WBGene00009478	-0.012311943	1	5.46E-01	0.019537958
WBGene00009479	-0.299217097	19	6.24E+02	0.26856605
WBGene00009477	0.139165442	28	9.93E-02	0.070751265
WBGene00009481	-0.478317587	4	9.68E+00	-0.492459565
WBGene00009476	-0.10357453	9	2.78E+00	-0.034304732
WBGene00009475	0.284113832	8	6.69E-02	-0.172333259
WBGene00006525	-0.511101666	16	7.04E+03	-0.123326486
WBGene00007854	-7.99E-05	16	1.69E+00	-0.312897616
WBGene00000058	0.335170134	21	2.35E-03	0.360548951
WBGene00007858	0.018362212	1	4.99E-01	0.002121978
WBGene00007855	0.018362212	1	4.99E-01	0.002121978
WBGene00007857	0.029371404	10	7.66E-01	0.166256279
WBGene00007856	0.950633791	7	3.20E-04	1
WBGene00001843	1	19	1.51E-09	1
WBGene00012296	1	3	2.81E-03	0.745267389
WBGene00012297	0.127002459	6	3.04E-01	0.590372611
WBGene00012298	0.146487695	7	2.49E-01	0.364010971
WBGene00006503	-0.334571948	4	4.33E+00	0.316957673
WBGene00004298	-0.045139151	18	4.45E+00	0.282574929
WBGene00011531	0.285186246	13	2.73E-02	0.391101797
WBGene00303078	0.427071314	3	8.23E-02	0.423789446
WBGene00011532	0.308166358	6	7.96E-02	0.418346205
WBGene00077558	-0.033376092	1	5.80E-01	9.81E-05
WBGene00003182	0.643563597	10	9.16E-04	0.639986744
WBGene00001574	0.336780891	19	3.54E-03	0.388156088
WBGene00012376	0.363952194	17	3.47E-03	0.237465412
WBGene00014115	0.213460104	13	7.26E-02	0.376637658
WBGene00014116	0.262108876	6	1.12E-01	0.332500271
WBGene00014121	-0.212406862	4	2.18E+00	-0.168073565
WBGene00014117	-0.704793906	11	4.84E+03	-1
WBGene00003209	0.153529996	6	2.50E-01	0.105053406
WBGene00014118	0.084791281	9	4.17E-01	0.270404334
WBGene00014119	0.18833243	36	1.27E-02	0.067390606
WBGene00014120	0.448119723	19	4.28E-04	0.063984553
WBGene00010421	-0.041375561	9	1.48E+00	0.168245665
WBGene00010422	-0.166261771	3	1.34E+00	-0.573964326
WBGene00009129	-0.084823684	12	3.64E+00	-0.028406819
WBGene00077773	0.459633454	4	5.06E-02	0.525080365
WBGene00009128	0.527730653	2	7.59E-02	0.698925952
WBGene00009127	0.288313316	16	1.53E-02	-0.181837899
WBGene00001167	1	24	1.33E-11	0.297029815
WBGene00009126	0.666061796	27	1.09E-07	0.80869603
WBGene00009130	0.688265687	5	8.22E-03	0.435976928
WBGene00009125	-0.114800626	5	1.51E+00	0.165630606

WBGene00006407	0.004995413	88	2.99E+02	0.108741844
WBGene00008107	-0.733757589	28	1.75E+09	-0.48467963
WBGene00001590	-0.143546773	4	1.48E+00	-0.004164459
WBGene00044008	-0.122369819	12	5.87E+00	-0.015899788
WBGene00000147	0.639606068	7	4.20E-03	0.078100021
WBGene00009498	0.010093818	41	7.91E+00	0.171535686
WBGene00009499	0.578613666	12	7.75E-04	0.533212163
WBGene00044247	0.559423516	3	4.41E-02	0.55847624
WBGene00194653	0.280706637	3	1.64E-01	0.110655782
WBGene00009500	-0.389495077	36	4.78E+06	-0.216878202
WBGene00008779	2	18	3.61E-19	2
WBGene00008780	0.641882579	31	2.82E-08	0.335796841
WBGene00008781	0.066902711	18	5.86E-01	0.549297315
WBGene00009173	0.278650403	6	9.90E-02	0.403011918
WBGene00009174	0.240033898	14	4.41E-02	0.079819656
WBGene00009176	0.416076961	4	6.46E-02	0.080292602
WBGene00004268	0.048801341	3	4.88E-01	0.554788334
WBGene00006732	0.275759012	6	1.01E-01	0.918350626
WBGene00009177	0.657539075	7	3.62E-03	1
WBGene00009178	0.685210618	33	2.68E-09	0.444889783
WBGene00002026	1	11	3.50E-06	0.876265093
WBGene00007533	0.00470135	7	8.06E-01	0.116290573
WBGene00003026	0.555541923	29	8.47E-07	0.587059873
WBGene00010857	0.085755115	11	4.14E-01	0.071169544
WBGene00010856	-0.092385596	8	2.11E+00	0.097217089
WBGene00010858	0.217449183	3	2.21E-01	0.056717719
WBGene00010859	0.045077383	6	5.56E-01	-0.278563303
WBGene00001121	-0.649641935	14	1.81E+04	-0.196544846
WBGene00008878	0.4670318	82	1.54E-13	0.307830757
WBGene00008877	0.090425546	7	3.96E-01	0.198273267
WBGene00008876	-0.108662336	27	6.76E+01	0.057711117
WBGene00007641	-0.237834067	8	8.02E+00	-0.589104448
WBGene00219310	-0.048376479	5	9.83E-01	0.11508265
WBGene00007642	-0.163363249	8	4.05E+00	0.167278042
WBGene00219313	0.064748255	8	5.00E-01	0.087024548
WBGene00007643	0.112970285	9	3.14E-01	0.326716052
WBGene00007644	0.207073925	3	2.32E-01	-0.01380309
WBGene00044236	0.192181487	3	2.49E-01	0.003235302
WBGene00003904	-0.172273445	8	4.40E+00	-0.098295405
WBGene00007645	0.283331592	21	6.89E-03	0.275022171
WBGene00007646	0.848377564	10	9.71E-05	0.738455634
WBGene00007647	0.143153208	13	1.89E-01	0.241402283
WBGene00003172	0.061431579	24	7.41E-01	0.237064977
WBGene00009754	-0.088249907	4	1.09E+00	-0.045755398
WBGene00009755	-0.851472264	5	1.81E+02	-0.344781066
WBGene00006681	0.033397087	13	8.46E-01	0.069679363
WBGene00004808	0.096165884	4	3.88E-01	-0.418308891

WBGene00004807	0.639738885	7	4.20E-03	0.325165592
WBGene00009260	0.29998095	5	1.02E-01	0.313977808
WBGene00045473	-0.115524279	3	1.06E+00	0.351380069
WBGene00009268	0.260122838	1	2.46E-01	-0.019675046
WBGene00044680	-0.200198572	1	9.45E-01	0.135872154
WBGene00009261	-0.488017029	7	4.76E+01	-0.088783795
WBGene00009269	0.077803885	2	4.23E-01	-0.379541885
WBGene00195244	0	1	5.26E-01	-0.031121187
WBGene00009263	0.06086101	5	4.83E-01	-0.12266161
WBGene00006061	-0.022989133	3	6.85E-01	0.17910817
WBGene00009264	0.273647857	22	7.13E-03	0.484856462
WBGene00009262	0.468482295	9	8.77E-03	0.764144754
WBGene00006062	0.420479188	19	7.23E-04	0.288890491
WBGene00009266	0.212003339	7	1.45E-01	0.473805782
WBGene00009267	0.244578833	29	4.99E-03	0.00983097
WBGene00004887	0.79910503	4	7.56E-03	0.60061325
WBGene00002226	0.261898462	16	2.35E-02	-0.338512439
WBGene00077771	0.479980425	8	1.11E-02	-0.044693599
WBGene00008061	-0.095440232	6	1.57E+00	-0.431534594
WBGene00008062	-0.069441793	7	1.49E+00	-0.230667101
WBGene00000096	-0.286716156	18	3.53E+02	-0.215350682
WBGene00008063	-0.266867311	2	1.57E+00	-0.051964419
WBGene00077525	-0.43619703	9	7.89E+01	-0.125589996
WBGene00008064	-0.069149618	5	1.12E+00	0.004542046
WBGene00219284	-0.101126849	3	9.89E-01	0
WBGene00007984	-0.007743513	13	1.48E+00	-0.060750637
WBGene00007985	-0.453855041	46	5.37E+09	-0.733369696
WBGene00004372	0.095094919	17	3.54E-01	0.1070828
WBGene00007986	-0.832879164	9	4.28E+03	-0.953591862
WBGene00009646	-0.563330192	11	9.06E+02	-0.575831795
WBGene00002276	-0.66623632	13	1.18E+04	0.015346306
WBGene00044987	-0.622409471	5	4.09E+01	-0.135845922
WBGene00010608	-0.49091837	5	1.74E+01	-0.012140249
WBGene00010617	-0.171256094	4	1.73E+00	0.126710569
WBGene00010609	0.338324623	13	1.32E-02	0.46641495
WBGene00010610	0.096933196	5	3.82E-01	-0.107117728
WBGene00010611	0.475347205	6	2.32E-02	-0.143770038
WBGene00010612	-0.750666756	8	8.85E+02	-2
WBGene00010613	-0.018194839	3	6.70E-01	0.046392963
WBGene00010614	-0.144103986	11	6.30E+00	0.137060242
WBGene00219285	0.002751978	3	6.07E-01	-0.083535494
WBGene00000177	0.163387734	4	2.66E-01	0.035541698
WBGene00010619	1	5	9.61E-04	0.903451966
WBGene00002070	0.751995835	9	5.05E-04	0.55977188
WBGene00010615	0.313528507	8	5.11E-02	0.246349521
WBGene00010616	0.159044192	3	2.91E-01	-0.046771332
WBGene00004312	0.709079869	7	2.36E-03	1

WBGene00003036	0.504120888	10	4.22E-03	0.349500089
WBGene00011488	1	12	4.83E-07	0.318171768
WBGene00004488	1	21	1.11E-13	0.840317942
WBGene00011489	1	9	6.28E-06	0.973077157
WBGene00002027	0.871911972	21	3.37E-08	0.759029002
WBGene00011490	-0.096999291	6	1.59E+00	0.592063466
WBGene00011491	-0.231332352	11	1.77E+01	-0.694431158
WBGene00011492	-0.104516253	11	3.94E+00	-0.089324155
WBGene00011493	-0.227806335	3	1.80E+00	-0.013763761
WBGene00194656	0.220457103	1	2.76E-01	-0.060829595
WBGene00011494	-0.010115223	9	1.08E+00	-0.438922326
WBGene00000968	0.094447666	5	3.89E-01	-0.205657348
WBGene00011497	-0.028066391	10	1.44E+00	0.370751962
WBGene00011495	-0.218791321	16	5.97E+01	0.013070592
WBGene00007278	-0.514223282	7	5.92E+01	-0.508233264
WBGene00007277	-0.296584326	12	5.41E+01	-0.079356379
WBGene00219796	-0.340690253	2	2.09E+00	-0.190532464
WBGene00003800	-0.001899676	15	1.60E+00	0.351994236
WBGene00000466	0.238643266	12	5.90E-02	0.108269961
WBGene00007275	0.709676609	10	4.44E-04	0.338398064
WBGene00004437	1	3	2.37E-03	0.318107263
WBGene00007297	-0.210506388	22	2.57E+02	-0.221147328
WBGene00002069	-0.059890714	17	5.10E+00	-0.042233391
WBGene00004426	2	4	1.12E-04	0.854668421
WBGene00007299	2	2	1.95E-04	1
WBGene00077685	0.019569493	1	4.97E-01	0.03275641
WBGene00007301	0.443365035	3	7.62E-02	0.7797529
WBGene00007302	0.620922299	7	4.91E-03	1
WBGene00219286	0.233636666	1	2.66E-01	0.07310856
WBGene00007303	-0.303041443	2	1.81E+00	0.179751638
WBGene00001405	0.482170787	5	3.13E-02	0.837682862
WBGene00007621	0.049902729	4	5.02E-01	0.121127705
WBGene00007620	0.085758091	41	4.26E-01	0.247513318
WBGene00001145	0.05197254	17	7.44E-01	0.008128036
WBGene00000430	0.033974239	3	5.24E-01	0.385796755
WBGene00001582	0.064310822	23	6.79E-01	-0.197121206
WBGene00010487	0.290016176	5	1.09E-01	0.443720196
WBGene00010488	0.324672538	5	8.72E-02	-0.044795977
WBGene00044607	-0.019948777	3	6.75E-01	0.013542055
WBGene00006352	0.450329256	16	1.09E-03	0.179129386
WBGene00009157	-0.020528349	6	9.03E-01	0.226147206
WBGene00009158	-0.211322922	13	2.38E+01	-0.044784246
WBGene00009160	-0.251924591	9	1.24E+01	0.069145825
WBGene00009159	-0.272696839	9	1.52E+01	-0.28521273
WBGene00009161	0.0065789	3	5.96E-01	0.397502536
WBGene00009162	-0.166933181	26	2.47E+02	-0.022111834
WBGene00009165	0.143021819	2	3.30E-01	0.021504824

WBGene00009163	0.32970654	19	4.05E-03	0.089306363
WBGene00006528	0.381334605	13	7.36E-03	-0.095331274
WBGene00000371	0.376351573	6	4.81E-02	0.110490174
WBGene00009164	0.659351289	18	1.29E-05	0.403789893
WBGene00003569	0.888674657	18	2.03E-07	0.606685323
WBGene00009408	-0.016939459	19	2.93E+00	0.135029753
WBGene00013449	-0.117696096	4	1.28E+00	-0.050970312
WBGene00003652	-0.444848071	21	2.56E+04	-0.326583549
WBGene00006978	0.026308768	10	7.93E-01	-8.25E-06
WBGene00010730	0.118573305	8	3.05E-01	0.41496455
WBGene00010731	0.11619147	31	1.71E-01	-0.118310867
WBGene00010732	0.164144649	17	1.08E-01	0.178016196
WBGene00003639	0.691301268	23	4.88E-07	0.529194216
WBGene00002142	-0.52364143	18	2.57E+04	-0.210704615
WBGene00003659	0.11136844	8	3.26E-01	0.318336261
WBGene00003524	0.234723867	7	1.20E-01	0.007038824
WBGene00003842	-0.061797563	11	2.38E+00	-0.00528593
WBGene00000640	-0.533354066	7	6.93E+01	-0.617494835
WBGene00003396	-0.139129365	11	5.94E+00	0.262111762
WBGene00009937	0.457336777	6	2.65E-02	0.54372033
WBGene00009939	-0.137155578	15	1.29E+01	0.007894797
WBGene00009938	-0.087792072	4	1.09E+00	-0.793789833
WBGene00009941	-0.054153271	4	9.00E-01	-0.00369561
WBGene00009942	-0.594787196	11	1.31E+03	-0.480625139
WBGene00009940	0.089087293	3	4.04E-01	0.078031561
WBGene00013696	0.700535471	6	4.39E-03	0.080168311
WBGene00013695	0.211226598	8	1.30E-01	-0.016186562
WBGene00013697	0.761453463	3	1.70E-02	0.306721471
WBGene00013694	-0.09103857	10	2.87E+00	0.198529615
WBGene00005023	-0.037891472	15	2.79E+00	0.183401774
WBGene00303082	0.357241368	2	1.46E-01	-0.072561157
WBGene00011985	0.658880659	17	2.17E-05	-0.17078217
WBGene00011988	0.028730682	12	8.56E-01	-0.39794516
WBGene00011986	-0.176854855	6	2.86E+00	-0.609924948
WBGene00007043	0.120158228	6	3.19E-01	0.303617627
WBGene00003397	0.610889554	14	2.02E-04	0.201412491
WBGene00006633	0.745951116	9	5.37E-04	0.838736574
WBGene00011944	0.40480647	9	1.66E-02	0.469598146
WBGene00001226	1	23	8.45E-11	0.951455935
WBGene00006379	0.0817802	14	4.39E-01	0.022373135
WBGene00001941	-0.090969855	2	8.05E-01	-0.083052668
WBGene00001942	-0.776017128	2	1.10E+01	-0.708155656
WBGene00011945	-0.188857713	13	1.75E+01	-0.132995257
WBGene00000476	0.034361164	10	7.26E-01	0.155890371
WBGene00007274	-0.076993493	8	1.83E+00	-0.360744686
WBGene00001483	-0.466619789	5	1.49E+01	-0.569520314
WBGene00008661	-0.345144907	9	3.16E+01	-0.783853291

WBGene00008662	0.170677678	5	2.37E-01	-0.814202197
WBGene00008663	-0.108517951	6	1.73E+00	-0.103476564
WBGene00003803	0.198932932	15	7.25E-02	0.259355459
WBGene00008665	0.604758176	38	3.34E-09	0.643847764
WBGene00003564	2	6	2.40E-07	1
WBGene00008664	0.199668847	5	1.96E-01	0.808537636
WBGene00008667	0.05117956	10	6.04E-01	0.392599669
WBGene00008666	-0.041568734	24	8.30E+00	0.123299856
WBGene00007156	-0.113753543	5	1.50E+00	-0.478146896
WBGene00007159	-0.226308245	7	5.46E+00	0.096788639
WBGene00007155	0.279183917	7	8.31E-02	0.40935186
WBGene00003508	-0.168108785	32	9.97E+02	0.114468248
WBGene00007054	0.418618752	36	4.87E-06	0.383289634
WBGene00007158	-0.170553159	1	8.67E-01	0.016972561
WBGene00013698	-0.403748727	6	1.53E+01	-0.166121243
WBGene00013699	-0.310766317	4	3.79E+00	-0.125649313
WBGene00013700	-0.624841112	18	1.60E+05	-1
WBGene00013701	-0.390130996	5	9.04E+00	-0.394547058
WBGene00013704	0.002614165	1	5.22E-01	0.026798533
WBGene00013702	0.128334738	6	3.01E-01	0.027492415
WBGene00014965	0.56688939	19	4.48E-05	0.298196212
WBGene00013703	0.457207516	30	9.48E-06	0.421164517
WBGene00008885	0.36020768	7	4.25E-02	0.704022554
WBGene00008886	0.11177543	10	3.11E-01	0.134023862
WBGene00023415	-0.288803734	12	4.90E+01	-0.291078973
WBGene00044243	-0.2719207	5	4.20E+00	-0.63905803
WBGene00006447	0.121385534	9	2.88E-01	-0.18726543
WBGene00007705	0.131682017	4	3.18E-01	-0.417360188
WBGene00001442	0.097218316	5	3.82E-01	-0.219718369
WBGene00045383	0.861265774	13	1.06E-05	0.080984025
WBGene00007707	-0.269614256	7	7.81E+00	-0.242581063
WBGene000077526	0.333079035	4	1.03E-01	-0.26944742
WBGene00007708	0.26423975	1	2.43E-01	-0.267360135
WBGene00303030	0.327336623	5	8.57E-02	-0.071946323
WBGene00002153	0.400102074	27	1.14E-04	0.088752321
WBGene00007709	0.416937055	4	6.43E-02	-0.102942044
WBGene00007710	0.311308769	6	7.78E-02	0.848941968
WBGene00000931	0.118959561	6	3.22E-01	0.343487813
WBGene00007711	0.118777813	10	2.88E-01	-0.043146472
WBGene00007712	0.101609946	5	3.71E-01	0.172289345
WBGene00000095	0.162260241	8	2.04E-01	0.216218437
WBGene00007713	0.545854678	1	1.07E-01	1
WBGene00013705	-0.148522742	8	3.54E+00	-0.182233692
WBGene00219498	-0.098694805	2	8.29E-01	0
WBGene00013708	-0.174821924	4	1.77E+00	-0.284885161
WBGene00000426	-0.150312514	10	5.49E+00	-0.189556294
WBGene00013709	0.387000889	12	8.91E-03	0.470429867

WBGene00003000	0.396495373	17	1.98E-03	0.205309799
WBGene00013860	0.088579421	13	3.99E-01	0.032951525
WBGene00013859	0.190206889	82	1.71E-04	0.123214305
WBGene00007047	0.185157874	18	6.89E-02	0.13385226
WBGene00011864	0.004734936	2	5.59E-01	-0.002384019
WBGene00013711	0.097593747	89	1.70E-01	0.156320056
WBGene00013713	0.354109845	11	1.72E-02	0.358848116
WBGene00013712	0.256886776	4	1.58E-01	-0.032913525
WBGene00013710	0.068798983	6	4.67E-01	0.159793782
WBGene00004476	1	4	1.68E-03	1
WBGene00013892	0.782985184	7	1.28E-03	0.916106037
WBGene00220261	-0.098891921	4	1.16E+00	0.764714322
WBGene00013891	0.522377995	5	2.41E-02	0.619240275
WBGene00001337	0.301277833	25	2.21E-03	-0.055738361
WBGene00000148	-0.002261061	10	1.08E+00	0.086504348
WBGene00013893	0.044188282	11	6.77E-01	-0.189883062
WBGene00013894	-0.306176761	11	4.30E+01	-0.302164983
WBGene00013895	-0.326097844	20	1.50E+03	-0.347404773
WBGene00009743	-0.144298055	11	6.32E+00	-0.180131484
WBGene00003587	0.259077618	3	1.82E-01	0.500064429
WBGene00009744	0.05336025	10	5.89E-01	0.12075155
WBGene00189958	-0.109206102	5	1.46E+00	-0.207331853
WBGene00303028	-0.597833231	1	3.02E+00	-0.546224469
WBGene00009745	-0.622929284	5	4.10E+01	-0.390852516
WBGene00077521	-0.040471282	9	1.47E+00	-0.031798435
WBGene00003233	0.321826866	27	8.79E-04	0.234244727
WBGene00000843	-0.031107623	6	9.76E-01	0.434169122
WBGene00009112	0.653751604	7	3.74E-03	-0.220758934
WBGene00003847	-0.067526555	17	5.81E+00	-0.285807882
WBGene00009113	-0.712510872	25	1.16E+08	-0.890197205
WBGene00009114	-0.354461782	23	8.61E+03	-0.248190356
WBGene00013716	0.034724561	14	8.71E-01	-0.058757635
WBGene00003902	1	10	5.14E-06	1
WBGene00004444	0.849587214	2	2.22E-02	0.262557101
WBGene00013717	0.683632955	5	8.47E-03	-0.359359793
WBGene00013718	0.094757053	14	3.64E-01	0.265880266
WBGene00013719	0.035565559	11	7.50E-01	0.141840907
WBGene00004753	0.112658626	22	2.33E-01	0.174312321
WBGene00013720	-0.29380332	3	2.45E+00	-0.965123284
WBGene00013721	0	4	6.64E-01	0.004822917
WBGene00001112	-0.021433331	22	4.26E+00	0.444380706
WBGene00013723	0.215857533	3	2.22E-01	0.306017597
WBGene00013724	-0.027324956	7	1.05E+00	0.211746711
WBGene00013725	-0.340167565	3	3.05E+00	0.099390889
WBGene00013726	0.146860099	2	3.25E-01	0.245467813
WBGene00009508	0.389374759	17	2.24E-03	0.178103342
WBGene00009507	-0.400261807	30	5.08E+05	-0.192315865

WBGene00009509	-0.091088248	4	1.11E+00	-0.72971241
WBGene00009510	-0.063700124	3	8.30E-01	-0.127708915
WBGene00006445	0.990407005	20	6.43E-09	0.684446434
WBGene00000492	-0.159001067	23	1.05E+02	-0.134014878
WBGene00010327	-0.035699662	11	1.74E+00	-0.076915214
WBGene00077764	-0.804081909	2	1.22E+01	0.043155316
WBGene00206464	0.08693793	8	4.08E-01	-0.392506264
WBGene00003742	0.500206629	4	4.03E-02	-0.250913757
WBGene00010325	0.091865621	4	3.97E-01	-0.035092093
WBGene00010326	-0.079894845	8	1.88E+00	-0.297835624
WBGene00044251	-0.038201781	4	8.23E-01	0.094450788
WBGene00010323	-0.752929109	6	2.02E+02	-0.525775449
WBGene00010324	-0.3929094	9	5.10E+01	-0.689544494
WBGene00044792	-0.292804674	15	1.42E+02	-0.119452874
WBGene00010328	-0.222629583	8	6.98E+00	-0.309326434
WBGene00006578	-0.233753338	4	2.46E+00	-0.060246837
WBGene00009116	0.496575459	19	1.70E-04	0.281816357
WBGene00009117	0.058674825	15	6.30E-01	-0.062242689
WBGene00009118	1	2	2.56E-03	1
WBGene00009119	0.651096126	4	1.73E-02	1
WBGene00009120	0.099517854	14	3.40E-01	0.707427577
WBGene00009121	-0.047957319	10	1.79E+00	0.269976374
WBGene00006720	0.633338799	10	1.02E-03	0.37912008
WBGene00003926	0.878116954	9	1.42E-04	0.12852542
WBGene00004408	1	9	7.96E-06	0.274397475
WBGene00009122	2	9	6.94E-08	0.271405296
WBGene00009123	1	11	5.21E-08	0.910434622
WBGene00009124	0.099213658	14	3.41E-01	0.227439258
WBGene00009243	0.096723209	7	3.76E-01	0.54486654
WBGene00011906	-0.218666058	4	2.26E+00	0.569088587
WBGene00003083	0.831034718	12	3.11E-05	0.33265323
WBGene00044070	1	9	1.18E-06	1
WBGene00206474	0.368073052	4	8.45E-02	0.434339508
WBGene00011909	0.276453601	9	6.06E-02	-0.287575733
WBGene00011908	0.26091894	21	1.10E-02	0.330802632
WBGene00002248	-0.675316069	62	4.01E+18	-0.641432927
WBGene00016622	0.194982319	6	1.84E-01	0.021142376
WBGene00016621	0.715372484	8	1.28E-03	0.256499146
WBGene00015232	0.594050149	14	2.58E-04	0.523590621
WBGene00015231	-0.039125278	9	1.45E+00	-0.046435603
WBGene00015233	-0.303583998	8	1.47E+01	-0.130538058
WBGene00255714	-0.013273523	4	7.15E-01	-0.447782876
WBGene00015238	0.235199047	6	1.37E-01	0.426100911
WBGene00044321	0.23219469	5	1.59E-01	-0.005969721
WBGene00015235	0.808408992	8	5.46E-04	0.189579588
WBGene00001228	1	6	2.94E-05	0.54996512
WBGene00219234	0.064450411	2	4.45E-01	0.121221666

WBGene00015230	-0.318473111	7	1.17E+01	-0.121063352
WBGene00015229	-0.531861224	6	3.94E+01	-0.686943987
WBGene00015236	0.097911492	19	3.31E-01	-0.155644172
WBGene00015228	0.275111715	7	8.59E-02	-0.126982498
WBGene00015237	0.259970063	52	9.28E-05	0.485073758
WBGene00001432	-0.49933869	8	8.83E+01	-0.308037359
WBGene00016389	-1	5	4.78E+02	-0.468686033
WBGene00016388	-0.08728618	5	1.27E+00	-0.010016844
WBGene00016390	-0.104037408	4	1.19E+00	-0.065017071
WBGene00016391	-0.081504076	21	1.35E+01	0.125538704
WBGene00016395	-0.454477354	2	3.22E+00	0.34535952
WBGene00016392	0.078081529	11	4.53E-01	0.135040666
WBGene00016393	0.375118801	5	6.28E-02	0.333570495
WBGene00016387	-0.028730358	2	6.35E-01	-0.02743359
WBGene00016386	-0.254292839	6	5.07E+00	-0.294661472
WBGene00016396	-0.12674206	11	5.13E+00	-0.098184283
WBGene00016394	-0.003658634	7	8.64E-01	-0.005437873
WBGene00015024	-0.510010676	14	2.38E+03	-0.834418118
WBGene00015017	-0.135496647	17	1.87E+01	-0.047946893
WBGene00015023	-0.259273763	9	1.33E+01	-0.48513773
WBGene00015018	-0.002890622	4	6.75E-01	0.004721845
WBGene00044646	-0.148206583	2	1.00E+00	0.068709198
WBGene00044644	-0.036117213	1	5.85E-01	0.066843905
WBGene00015022	-0.200924044	8	5.72E+00	0.477439984
WBGene00044413	0.188713317	2	2.77E-01	0.245645042
WBGene00004466	0.346358323	6	6.01E-02	-0.17570999
WBGene00015025	0.134083267	2	3.41E-01	0.209003895
WBGene00002191	0.546254692	11	1.76E-03	0.813712149
WBGene00015021	0.24549153	11	6.23E-02	0.402066304
WBGene00015020	0	1	5.26E-01	-0.011191933
WBGene00015019	-0.104425781	7	1.99E+00	-0.20415076
WBGene00000912	0.062461102	80	2.44E+00	-0.03128535
WBGene00018850	-0.511658458	7	5.79E+01	-0.798576784
WBGene00018851	-0.137584046	2	9.62E-01	-0.169999751
WBGene00018849	0.456296743	30	9.73E-06	0.017325611
WBGene00018848	0.086274576	17	4.12E-01	0.297746929
WBGene00018847	0.533733704	18	1.25E-04	0.650103051
WBGene00016461	2	6	1.76E-07	2
WBGene00016460	0.823653423	6	1.77E-03	1
WBGene00016462	-0.122924545	15	1.04E+01	0.826903919
WBGene00016459	0.039453854	2	4.89E-01	0.180515359
WBGene00016458	0.161484943	10	1.80E-01	0.483902923
WBGene00016457	0.002363168	20	2.19E+00	0.169874301
WBGene00271779	0.009577512	1	5.12E-01	0.019820197
WBGene00016456	-0.019667433	8	1.08E+00	0.091963253
WBGene00016455	0.021045237	14	1.06E+00	-0.055584675
WBGene00016454	0.492721192	12	2.32E-03	0.732716869

WBGene00016463	0.829854144	6	1.69E-03	1
WBGene00016453	-0.613176798	23	2.95E+06	-0.291133605
WBGene00021384	-0.143922713	3	1.21E+00	-0.08920215
WBGene00021385	0	1	5.26E-01	0
WBGene00021383	0	1	5.26E-01	0
WBGene00021382	0.008705898	3	5.90E-01	-0.091852132
WBGene00021386	-0.21250917	7	4.87E+00	-0.239983765
WBGene00021388	0.002755571	4	6.54E-01	0.005035251
WBGene00044289	0.867981253	4	5.14E-03	0.55465812
WBGene00021387	0.199450247	19	4.81E-02	0.128833681
WBGene00020859	0.146266191	4	2.93E-01	0.502082498
WBGene00020860	-0.011471645	4	7.08E-01	-0.221090883
WBGene00269435	0.065473752	3	4.52E-01	0.251906199
WBGene00003068	0.039444604	57	5.01E+00	0.056156818
WBGene00020858	0.057440833	44	1.37E+00	0.085866292
WBGene00077519	-0.098026897	4	1.15E+00	-0.205839983
WBGene00020857	-0.03861603	7	1.15E+00	-0.170562963
WBGene00020856	-0.392884952	8	3.33E+01	0.037845886
WBGene00018630	-0.049099068	11	2.04E+00	-0.008156274
WBGene00018628	-0.002225032	5	7.28E-01	-0.144878738
WBGene00018627	-0.008127373	8	9.76E-01	-0.408655237
WBGene00194698	0.123037137	3	3.44E-01	0.060678177
WBGene00018626	-0.576344641	14	6.24E+03	0.302409476
WBGene00018631	-2	1	4.46E+01	0.507348162
WBGene00000780	-0.234656177	3	1.86E+00	0.315900822
WBGene00045433	0.425056484	24	1.46E-04	0.902317149
WBGene00018632	0.344168701	7	4.85E-02	0.148761505
WBGene00235254	0.491979444	3	6.06E-02	0.525614567
WBGene00018625	0.201635058	13	8.54E-02	0.549258117
WBGene00045434	0.096569022	6	3.80E-01	-0.005578913
WBGene00013605	0.162587214	4	2.67E-01	0.370910128
WBGene00284854	-0.012845147	2	5.97E-01	-0.017457227
WBGene00013121	0.002958036	2	5.62E-01	-0.019221555
WBGene00013122	0.051076735	8	5.67E-01	0.003929873
WBGene00013123	0.064693631	18	6.10E-01	0.044685803
WBGene00013124	-0.010076218	24	3.96E+00	0.052866972
WBGene00219422	-0.045638395	8	1.38E+00	0.052226738
WBGene00077539	-0.019991572	5	8.17E-01	0.284955961
WBGene00013125	0.044697103	4	5.17E-01	0.009372866
WBGene00013126	-0.163474423	23	1.16E+02	-0.157139976
WBGene00013127	-0.145559433	6	2.27E+00	-0.13739956
WBGene00013128	0.137747082	12	2.13E-01	0.024331325
WBGene00013129	-0.029413725	14	2.21E+00	-0.033165862
WBGene00206497	-0.266060176	7	7.58E+00	-0.278372765
WBGene00206530	0.186617297	15	8.77E-02	-0.331172524
WBGene00014914	-0.16924061	12	1.07E+01	-0.259497353
WBGene00001980	0.160746479	129	7.06E-05	0.224401623

WBGene00013130	0.000262155	3	6.14E-01	0.117595592
WBGene00013929	-0.072970354	5	1.15E+00	-0.016851915
WBGene00044266	-0.052368384	5	1.01E+00	-0.422103297
WBGene00013928	-0.194304578	8	5.38E+00	-0.157366623
WBGene00013927	-0.430296667	6	1.86E+01	-0.597941219
WBGene00013930	-0.308139648	4	3.73E+00	0.27762728
WBGene00013931	0.014216346	5	6.54E-01	-0.36303198
WBGene00013932	-0.323795257	10	3.67E+01	-0.644466928
WBGene00013933	-0.108884893	4	1.22E+00	-0.047686211
WBGene00050881	-0.09508986	5	1.33E+00	-0.004408035
WBGene00013131	-0.039829951	3	7.41E-01	-0.065631304
WBGene00009220	0.085237691	18	4.20E-01	-0.036172716
WBGene00004706	-0.085473206	24	2.32E+01	-0.208598147
WBGene00005517	-0.084199586	15	5.71E+00	-0.301389745
WBGene00012317	0.456597488	18	5.07E-04	0.501627907
WBGene00002119	0.061681854	8	5.14E-01	-0.310063772
WBGene00206528	-0.16358115	2	1.06E+00	-0.147255966
WBGene00013177	0.002802916	10	1.03E+00	-0.01007765
WBGene00013178	0	2	5.69E-01	0
WBGene00043056	-0.019282803	18	2.79E+00	0.162156125
WBGene00013179	-0.083627741	3	9.11E-01	-0.430595754
WBGene00009751	-0.821794536	3	2.94E+01	-0.490053502
WBGene00009750	-0.037341482	1	5.87E-01	-0.04539269
WBGene00009748	-0.46877178	3	5.59E+00	0.321668106
WBGene00009747	-0.527309735	4	1.27E+01	-0.458064558
WBGene00009746	-0.255012044	3	2.04E+00	-0.346470863
WBGene00009749	-0.187261019	6	3.09E+00	-0.128958919
WBGene00014761	0.006997132	10	9.79E-01	-0.009117406
WBGene00009753	-0.06563834	12	2.85E+00	-0.248515469
WBGene00009467	-0.049377199	9	1.61E+00	-0.028026658
WBGene00086556	-0.162546616	4	1.65E+00	-0.007478066
WBGene00009466	-0.169440567	3	1.36E+00	-0.646421339
WBGene00195230	-0.067763934	2	7.37E-01	0.105223193
WBGene00195231	-0.019837364	2	6.14E-01	0.035673047
WBGene00009464	-0.04514286	1	6.01E-01	-0.025980719
WBGene00044246	-0.2267956	2	1.35E+00	-0.515312671
WBGene00195232	-0.456633879	4	8.57E+00	-0.693381839
WBGene00009465	-0.208336378	4	2.13E+00	-0.052249852
WBGene00009463	0	2	5.69E-01	0
WBGene00219287	-0.00654284	3	6.34E-01	-0.007834923
WBGene00009468	0.026114485	7	6.75E-01	0.041097449
WBGene00009461	-0.035825998	6	1.01E+00	0.036778819
WBGene00009462	0	7	8.38E-01	-0.077685954
WBGene00005710	0.020415543	4	5.92E-01	-0.013105699
WBGene00013181	0.574369671	7	7.21E-03	0.349962812
WBGene00013180	-0.334511118	12	8.77E+01	-0.171454221
WBGene00013182	-0.019889258	4	7.42E-01	-0.215593155

WBGene00013184	-0.000460012	9	9.83E-01	-0.042789484
WBGene00219319	-0.393620127	13	2.86E+02	-0.896523909
WBGene00010417	-0.013653378	9	1.12E+00	-0.025208175
WBGene00010416	0.006463105	18	1.75E+00	-0.029158079
WBGene00000410	0.044563828	13	7.27E-01	0.123634918
WBGene00014807	-0.187284413	9	6.44E+00	-0.1025013
WBGene00077770	-0.248246023	5	3.60E+00	0.006499204
WBGene00010157	-0.614068223	28	6.88E+07	-0.472159406
WBGene00003977	-0.117733881	5	1.54E+00	-0.168756023
WBGene00010158	-0.051555678	5	1.00E+00	-0.062431354
WBGene00044250	-0.512583645	9	1.70E+02	-0.539894979
WBGene00010161	0.012592889	19	1.67E+00	-0.014723986
WBGene00010159	0.047308068	5	5.28E-01	0.070111221
WBGene00010160	0.049467757	14	7.03E-01	0.003860292
WBGene00000010	0.004944417	11	1.08E+00	0.037858208
WBGene00001215	0.026789116	30	2.30E+00	-0.037437831
WBGene00013186	-0.31704322	16	2.97E+02	-0.516229234
WBGene00007769	-0.62797428	9	5.44E+02	-0.518656713
WBGene00007768	-0.050237844	5	9.95E-01	-0.058934106
WBGene00003664	-0.281962851	8	1.20E+01	-0.098705841
WBGene00003663	-0.50927237	9	1.65E+02	-0.335415126
WBGene00007770	-0.326512168	3	2.86E+00	-0.610998575
WBGene00007766	-0.84888905	7	9.45E+02	-0.47651999
WBGene00014182	0	6	7.76E-01	0
WBGene00014186	-0.043257802	4	8.46E-01	-0.056010545
WBGene00014184	0	7	8.38E-01	0
WBGene00014183	-0.094286562	7	1.83E+00	-0.022284514
WBGene00050875	-0.074757259	5	1.17E+00	-0.138230481
WBGene00014188	0	6	7.76E-01	0
WBGene00003703	-0.191565209	6	3.19E+00	-0.079836247
WBGene00014189	-0.066768511	9	1.92E+00	-0.290636874
WBGene00010652	-0.195681873	3	1.54E+00	0.106335912
WBGene00010650	-0.133928052	7	2.54E+00	-0.059277097
WBGene00010651	-0.080924923	8	1.90E+00	0.250180328
WBGene00000641	-0.104775851	6	1.68E+00	0.018676984
WBGene00086564	-0.236017659	3	1.87E+00	-0.155930293
WBGene00010654	0.147687039	3	3.07E-01	0.03152812
WBGene00086563	1	3	7.07E-04	2
WBGene00010653	1	8	1.53E-06	1
WBGene00009318	0.871312621	11	3.75E-05	0.88803779
WBGene00009312	0.112940168	9	3.14E-01	-0.107510287
WBGene00009313	0.019745716	1	4.97E-01	0.004593909
WBGene00009316	0.378661191	7	3.65E-02	0.18597591
WBGene00009314	0.546505941	37	4.09E-08	0.513322611
WBGene00009315	1	12	1.21E-06	0.964471418
WBGene00001131	0.350554884	74	6.49E-09	0.356780061
WBGene00077557	-0.681204392	2	7.65E+00	-0.178232311

WBGene00008853	0.050391154	11	6.29E-01	-0.063291319
WBGene00008854	-0.267161612	27	4.25E+03	-0.059765289
WBGene00008855	0.323493655	2	1.66E-01	0.116917242
WBGene00008856	0.427605562	14	2.89E-03	0.593912279
WBGene00008857	1	9	6.67E-07	0.772165743
WBGene00008858	2	9	1.06E-10	2
WBGene00004963	0.48572102	5	3.06E-02	0.66775094
WBGene00007639	0.537558344	3	4.89E-02	0.782376618
WBGene00006807	0.468288997	12	3.16E-03	0.605430066
WBGene00007640	0.23936955	9	8.80E-02	0.190292832
WBGene00007637	-0.005905685	8	9.56E-01	0.165554347
WBGene00007638	0	13	1.33E+00	0
WBGene00086552	0	1	5.26E-01	0
WBGene00012945	0	13	1.33E+00	-0.000568283
WBGene00012264	0.001207502	1	5.25E-01	-0.016463223
WBGene00012265	-0.372787444	10	6.28E+01	-0.160167776
WBGene00004275	-0.085577916	5	1.25E+00	-0.07670941
WBGene00012266	-0.362912183	7	1.69E+01	-0.134758403
WBGene00012270	0.018869391	5	6.35E-01	-0.10303979
WBGene00002205	-0.146764858	10	5.28E+00	-0.276286132
WBGene00012269	-0.076795956	11	2.84E+00	-0.457764671
WBGene00206393	-0.261883386	3	2.11E+00	-0.087629787
WBGene00012268	-0.275233719	6	5.92E+00	-0.156895434
WBGene00012267	-0.336734477	7	1.36E+01	-0.76564307
WBGene00271780	-0.010208349	1	5.42E-01	-0.018290589
WBGene00002232	0.44893216	18	5.82E-04	0.510849134
WBGene00008681	-0.097405694	5	1.35E+00	0.549002724
WBGene00206532	-0.027605373	3	7.00E-01	0.067855923
WBGene00011935	0.436557087	6	3.08E-02	0.260605281
WBGene00011934	0.107839138	2	3.77E-01	0.687782672
WBGene00005523	0.160150513	6	2.38E-01	-0.153684957
WBGene00005524	-0.020689899	4	7.46E-01	-0.027238026
WBGene00011936	-0.966602039	13	7.07E+05	-0.549166383
WBGene00009413	-0.057856425	6	1.19E+00	-0.032429245
WBGene00009415	-0.52413865	5	2.16E+01	-0.42129108
WBGene00009416	-0.554230099	12	1.44E+03	-0.299378433
WBGene00009410	-0.550009573	7	7.96E+01	-0.349545808
WBGene00009409	-0.620391343	7	1.43E+02	-0.584748559
WBGene00009412	-0.659448916	11	2.83E+03	-0.191213473
WBGene00012946	-0.028593662	14	2.18E+00	-0.096610834
WBGene00006876	-0.046498756	224	2.03E+11	-0.110965917
WBGene00011384	0.628942138	4	1.96E-02	-0.424072483
WBGene00011385	-0.215686451	5	2.91E+00	0.063925701
WBGene00011387	-0.157761614	5	2.00E+00	-0.409724305
WBGene00011386	-0.060134194	3	8.16E-01	0.049681785
WBGene00011388	-0.070421558	10	2.29E+00	-0.070793705
WBGene00011389	-0.415484072	1	1.77E+00	0

WBGene00086562	-0.037914909	8	1.28E+00	-0.300591635
WBGene00011390	-0.21259251	5	2.85E+00	-0.590301138
WBGene00012947	-0.490930179	4	1.04E+01	-0.786816347
WBGene00012948	0.002650948	14	1.39E+00	0.017026036
WBGene00000415	-5.00E-05	26	3.66E+00	-0.023625647
WBGene00001045	-0.293978438	36	1.83E+05	-0.249622872
WBGene00000821	-0.589047704	4	1.80E+01	0.600686798
WBGene00012950	-0.134809473	7	2.56E+00	-0.194745736
WBGene00012951	0.019011831	5	6.34E-01	0.205909293
WBGene00012955	0.264043338	2	2.08E-01	-0.014986897
WBGene00012952	1	15	7.25E-09	0.590737702
WBGene00012953	0.083639032	3	4.15E-01	0.045230261
WBGene00001372	0.843597015	7	7.76E-04	0.32279622
WBGene00011155	1	5	8.37E-05	1
WBGene00011156	0.604746584	3	3.57E-02	0.137834222
WBGene00006707	0.220726688	7	1.35E-01	-0.556187896
WBGene00003123	0.51442675	6	1.74E-02	-0.328326575
WBGene00001836	0.071084656	13	5.06E-01	-0.041652482
WBGene00011058	0.011444509	8	8.15E-01	0.006544093
WBGene00006958	0.021869996	14	1.05E+00	0.191916965
WBGene00011059	0.955159789	6	6.69E-04	0.356595083
WBGene00011060	0.151499806	12	1.79E-01	0.024236224
WBGene00002004	0.087308781	18	4.05E-01	0.155471509
WBGene00044805	-0.347913418	2	2.15E+00	0.403553983
WBGene00013135	0.23783243	22	1.55E-02	0.320013342
WBGene00013136	0.152708837	10	1.98E-01	0.647211461
WBGene00013137	0.64710298	7	3.95E-03	0.27195068
WBGene00000023	-0.020083459	23	4.56E+00	0.037597918
WBGene00013138	-0.461981167	60	7.26E+12	-0.467923444
WBGene00010247	-0.087447614	11	3.22E+00	-0.152013694
WBGene00010246	-0.469964642	13	8.10E+02	-0.632826353
WBGene00010245	-0.315019035	12	6.84E+01	-0.273991349
WBGene00010244	-0.033637712	8	1.23E+00	-0.019836812
WBGene00010248	0.020463572	1	4.96E-01	0.061823908
WBGene00002240	-0.002086711	25	3.56E+00	0.020763312
WBGene00002000	0.796600397	17	2.03E-06	0.509581636
WBGene00010242	0.47897864	3	6.45E-02	0.506540818
WBGene00010243	-0.142129639	15	1.39E+01	-0.083260955
WBGene00000544	0.099337781	38	2.60E-01	0.098994099
WBGene00012958	-0.414021758	10	9.87E+01	-0.37949534
WBGene00012959	-0.517646466	9	1.79E+02	-0.054159066
WBGene00012960	0.048406404	4	5.06E-01	0.009069847
WBGene00012961	-0.169164561	6	2.71E+00	-0.097164887
WBGene00004509	-0.114138469	36	3.92E+02	-0.275288308
WBGene00010825	-0.487405091	6	2.84E+01	0.115991938
WBGene00010822	-0.0699696	7	1.50E+00	-0.014159577
WBGene00010821	-0.87152936	12	8.22E+04	-0.909738517

WBGene00010820	-0.200240701	14	2.64E+01	-0.44938169
WBGene00010823	0	2	5.69E-01	0
WBGene00005858	-0.266933534	9	1.44E+01	-0.124441181
WBGene00010819	-0.117475351	4	1.28E+00	-0.13946431
WBGene00010817	0.009338995	2	5.49E-01	-0.059614967
WBGene00005526	0	8	9.06E-01	0
WBGene00005525	0.264729203	8	7.99E-02	0.194905867
WBGene00005529	0.090117348	6	3.99E-01	0.145075951
WBGene00005528	-0.048483531	4	8.71E-01	-0.035718229
WBGene00005527	-0.224405945	6	4.07E+00	0.045542438
WBGene00008870	0	5	7.18E-01	-0.088935647
WBGene00011026	0.281601113	5	1.15E-01	-0.142036936
WBGene00011027	0.156871493	7	2.29E-01	0.273712099
WBGene00011028	0.045835716	15	7.68E-01	0.129287615
WBGene00011029	0.001280698	7	8.29E-01	0.000647843
WBGene00011030	-0.119478999	11	4.71E+00	0.065659735
WBGene00077559	0.007100552	1	5.16E-01	0
WBGene00007600	0.04078845	4	5.29E-01	-0.000591307
WBGene00007601	0.064598439	8	5.01E-01	0.665200363
WBGene00007602	0.169849656	25	5.41E-02	0.125267095
WBGene00007603	0.333705236	6	6.59E-02	0.112764029
WBGene00008782	0.307565273	4	1.19E-01	0.433835595
WBGene00008783	0.583618661	23	5.54E-06	0.89680609
WBGene00008784	0.461014808	11	4.85E-03	0.438102444
WBGene00008787	0.022628967	12	9.25E-01	0.148931454
WBGene00008785	-0.040616166	13	2.32E+00	0.134839909
WBGene00008786	-0.132312771	8	3.05E+00	-0.024527812
WBGene00003672	-0.016772592	5	8.00E-01	-0.02288766
WBGene00009607	0.008244829	10	9.66E-01	-0.052358092
WBGene00009608	-0.485876688	9	1.30E+02	-0.422983396
WBGene00009609	-0.213607661	13	2.46E+01	-0.369852058
WBGene00009610	-0.029721612	10	1.46E+00	-0.03219723
WBGene00009611	-0.87375253	13	1.99E+05	-0.140113358
WBGene00009612	-0.004035878	3	6.26E-01	-0.542086001
WBGene00009613	-0.467863318	3	5.56E+00	-0.110592541
WBGene00009615	-0.167002873	10	6.59E+00	0.003757123
WBGene00009614	-0.503559525	13	1.28E+03	-0.45128451
WBGene00009616	0.428979321	6	3.26E-02	0.521550018
WBGene00010162	0	4	6.64E-01	-0.08645898
WBGene00010173	0.113382038	9	3.13E-01	-0.066370343
WBGene00010163	-0.034570543	10	1.54E+00	-0.248504398
WBGene00010164	0.003760036	4	6.50E-01	-0.125966055
WBGene00010165	-0.879391131	12	9.08E+04	-0.970231924
WBGene00010166	-0.616170342	9	4.83E+02	-0.222735051
WBGene00010167	-0.290700244	10	2.56E+01	-0.184577781
WBGene00010168	-0.558303414	18	4.81E+04	-0.503133563
WBGene00010169	-0.491500223	4	1.04E+01	-0.139310707

WBGene00010170	-0.104882885	13	5.58E+00	-0.140628086
WBGene00010171	-0.154092724	10	5.72E+00	-0.303695462
WBGene00010172	-0.538870743	14	3.62E+03	-0.344992822
WBGene00008159	-0.175000036	10	7.19E+00	0.021924309
WBGene00008160	-0.126770097	4	1.35E+00	-0.087945624
WBGene00008162	-0.113971827	4	1.26E+00	-0.018737453
WBGene00008161	-0.335133766	8	1.96E+01	-0.453136199
WBGene00008163	0	1	5.26E-01	0
WBGene00003671	-0.198813515	4	2.02E+00	-0.647844607
WBGene00008158	-0.174770505	5	2.23E+00	-0.027714095
WBGene00008157	-0.086872665	4	1.08E+00	0.006235849
WBGene00011650	0.031507411	8	6.78E-01	-0.411434637
WBGene00011651	-0.329170052	6	8.82E+00	-0.308083449
WBGene00011659	-0.378177607	6	1.27E+01	-0.527814134
WBGene00011658	-0.556817739	12	1.49E+03	-0.703773661
WBGene00011657	-0.328847616	12	8.15E+01	-0.746718708
WBGene00011656	-0.049518171	7	1.26E+00	-0.109989577
WBGene00011654	-0.319651547	9	2.44E+01	-0.448263215
WBGene00011653	-0.240240039	8	8.20E+00	-0.184368896
WBGene00045103	-0.881798733	7	1.24E+03	-1
WBGene00011655	-0.279282892	7	8.46E+00	-0.453816871
WBGene00011652	-0.03360797	4	8.02E-01	0
WBGene00011778	-0.417923859	4	6.90E+00	-0.116312178
WBGene00011779	-0.573754692	11	1.02E+03	-0.565531633
WBGene00001642	-0.187168529	8	5.04E+00	-0.306526442
WBGene00001641	-0.14521721	3	1.22E+00	-0.036061769
WBGene00011780	-0.193212223	5	2.52E+00	-0.061667337
WBGene00003667	-0.103921122	2	8.46E-01	-0.079286777
WBGene00011781	-0.743420996	13	3.37E+04	-0.808799306
WBGene00011782	-0.052696959	2	6.95E-01	-0.00017383
WBGene00011783	0.068049771	6	4.69E-01	-0.043634602
WBGene00011784	-0.553129877	11	8.03E+02	-0.900636462
WBGene00011785	-0.389136566	3	3.84E+00	-0.114864409
WBGene00011786	-0.346565293	6	1.00E+01	-0.051092848
WBGene00008470	-0.154959094	3	1.27E+00	-0.362495631
WBGene00008471	-0.523280356	3	7.22E+00	-0.249943436
WBGene00008472	-0.384334215	15	5.84E+02	-0.375980177
WBGene00008473	-0.228286377	6	4.19E+00	-0.09512939
WBGene00008474	-0.229910199	4	2.41E+00	-0.018827048
WBGene00008475	-0.226189492	14	3.85E+01	-0.223761452
WBGene00008476	-0.087929176	8	2.03E+00	-0.131103088
WBGene00008477	-0.105125171	4	1.20E+00	-0.25516419
WBGene00008478	-0.268149952	7	7.72E+00	-0.125081833
WBGene00008479	-0.693593312	5	6.49E+01	0.101256254
WBGene00003679	-0.105150515	6	1.69E+00	-0.024349811
WBGene00008289	-0.066313544	2	7.33E-01	-0.01672122
WBGene00008290	-0.544847693	14	3.95E+03	-0.106105474

WBGene00008291	-0.046885381	5	9.73E-01	-0.077433395
WBGene00008292	-0.858311357	11	2.99E+04	-0.922848215
WBGene00008293	-1	7	1.11E+05	-1
WBGene00003098	-0.805390805	5	1.34E+02	-1
WBGene00044242	-0.569585466	2	5.00E+00	-0.219941494
WBGene00008294	-0.508536486	7	5.65E+01	0.46223834
WBGene00008295	-0.873864422	3	3.76E+01	0.016928596
WBGene00001640	-0.021821811	4	7.51E-01	0.10175286
WBGene00012102	-0.005306042	17	1.99E+00	-0.046395767
WBGene00077508	-0.212357994	4	2.18E+00	-0.096222386
WBGene00012103	-0.036494853	4	8.15E-01	0.004660904
WBGene00012104	0.005702686	8	8.59E-01	0.380351137
WBGene00004190	-0.118862156	9	3.24E+00	0.053614174
WBGene00012105	0.019921375	13	1.02E+00	-0.127763239
WBGene00012106	-0.004911974	11	1.21E+00	0.083192863
WBGene00012107	-0.446368076	12	3.65E+02	-0.289306978
WBGene00010768	-0.526165159	39	2.63E+09	-0.486754436
WBGene00010769	-0.555093829	20	1.43E+05	-0.622830975
WBGene00006829	-0.093212545	9	2.50E+00	0.045839733
WBGene00010771	-0.132890826	13	8.17E+00	-0.000605558
WBGene00010770	0.101209756	19	3.11E-01	0.153644966
WBGene00004181	-0.067781443	14	3.86E+00	0.029914523
WBGene00012208	0.129392276	4	3.22E-01	-0.093906139
WBGene00012209	-0.209954288	8	6.21E+00	0.102504312
WBGene00012210	-0.010623237	1	5.43E-01	0.01040094
WBGene00012216	-0.895923325	5	2.41E+02	0.085567954
WBGene00012215	-0.525511507	2	4.22E+00	-0.178550714
WBGene00012214	-0.730007891	3	1.91E+01	-0.900074888
WBGene00012213	-1	3	2.78E+02	-2
WBGene00012212	-0.057527125	1	6.23E-01	-0.05202289
WBGene00012211	-0.856277893	7	1.00E+03	-0.823053232
WBGene00045474	-0.239219904	2	1.42E+00	-0.185612889
WBGene00008216	-0.068700216	3	8.49E-01	-0.021044026
WBGene00001008	0.503078974	27	7.71E-06	0.452782291
WBGene00077769	-0.854150328	12	6.58E+04	-0.554976206
WBGene00009359	-0.582703438	5	3.16E+01	-0.575890011
WBGene00009360	-0.154389299	8	3.73E+00	-0.348728606
WBGene00009363	-0.532286419	3	7.53E+00	-0.304108747
WBGene00009362	-0.04544972	12	2.20E+00	-0.2853465
WBGene00009361	0.247663293	26	7.05E-03	0.409432951
WBGene00011581	0.535175278	5	2.22E-02	0.48959709
WBGene00011582	-1	19	2.76E+09	-1
WBGene00011586	-0.22070587	4	2.29E+00	-0.640603241
WBGene00011583	-0.016386125	7	9.60E-01	-0.144004354
WBGene00011584	0	9	9.79E-01	0
WBGene00010399	0	9	9.79E-01	-0.001027741
WBGene00010401	-0.06812638	6	1.28E+00	-0.030545211

WBGene00010420	0.111861637	10	3.10E-01	0.085359025
WBGene00010419	0.488441231	13	1.71E-03	-0.085376815
WBGene00012040	0.022940643	1	4.92E-01	0.023863422
WBGene00012041	-0.352124097	5	7.06E+00	-0.287112236
WBGene00012039	-0.027514445	1	5.70E-01	0.439292522
WBGene00012038	-0.675430664	4	2.92E+01	-0.312448782
WBGene00012037	0.002549341	3	6.07E-01	0.00607825
WBGene00003921	0.006680065	5	6.87E-01	0.005921711
WBGene00003578	0.858881584	9	1.72E-04	0.808365431
WBGene00012042	0.387978173	5	5.78E-02	0.332139257
WBGene00012036	0.058146493	9	5.45E-01	-0.789633372
WBGene00005051	-0.594722761	10	7.15E+02	-0.33406191
WBGene00005043	0.047461796	5	5.27E-01	-0.023393697
WBGene00005044	-0.029830763	3	7.07E-01	0.062330682
WBGene00005046	-0.159873738	7	3.15E+00	-0.280159979
WBGene00005047	0	2	5.69E-01	0.01199288
WBGene00005048	0.096883766	5	3.83E-01	-0.062390628
WBGene00005049	-0.081588405	2	7.77E-01	-0.004048775
WBGene00005050	-0.23834769	6	4.51E+00	-0.462264163
WBGene00011545	-0.349277833	11	7.17E+01	-0.354585818
WBGene00011546	-0.172844979	12	1.12E+01	-0.52843619
WBGene00011547	0.000997348	3	6.12E-01	0.018652408
WBGene00011548	-0.203607092	6	3.49E+00	-0.27217785
WBGene00005835	-0.688585072	9	1.00E+03	-0.871399755
WBGene00011551	-0.187357034	2	1.16E+00	-0.358058984
WBGene00006889	0.272507295	5	1.22E-01	0.040065574
WBGene00012192	-0.100071339	7	1.92E+00	0.247007706
WBGene00012193	0.395910009	33	2.42E-05	0.18404644
WBGene00012194	0.74604852	26	2.43E-08	0.205310664
WBGene00006700	0.197964747	22	3.67E-02	0.048477011
WBGene00012195	-0.00460689	7	8.71E-01	0.235782555
WBGene00012196	-0.414655647	4	6.78E+00	0.062634571
WBGene00000138	-0.002302243	10	1.08E+00	0.064018615
WBGene00007094	0.026785525	18	1.21E+00	0.019055798
WBGene00023459	0.049640996	4	5.03E-01	0.429316213
WBGene00012474	0.004578321	34	5.86E+00	-0.035636028
WBGene00012475	0.020987225	1	4.95E-01	0.00205094
WBGene00012476	0.101258432	19	3.10E-01	0.040302552
WBGene00012477	-0.370543917	3	3.52E+00	-0.58833349
WBGene00001746	0.184340033	13	1.08E-01	0.253988241
WBGene00003735	-0.041158606	18	4.14E+00	0.152911554
WBGene00004231	0.023269613	12	9.18E-01	0.003442797
WBGene00012478	0.140651292	16	1.70E-01	0.030500102
WBGene00012479	0	7	8.38E-01	-0.000433946
WBGene00012480	-0.311999026	8	1.58E+01	-0.55288174
WBGene00012481	0.003111447	3	6.06E-01	-0.080669121
WBGene00012488	-0.189355595	6	3.14E+00	0.019145997

WBGene00012482	-0.819230478	3	2.91E+01	-0.780930385
WBGene00012487	-0.658247018	11	2.79E+03	-0.839566106
WBGene00003905	-0.072376909	98	6.31E+05	-0.018874215
WBGene00012483	0.318797842	6	7.36E-02	0.700359355
WBGene00012484	0.33549717	8	4.17E-02	0.231381477
WBGene00001433	0.018118376	4	6.00E-01	0.011057958
WBGene00001427	-0.144023095	3	1.21E+00	0.509936181
WBGene00003989	0.122394391	2	3.57E-01	0.041910597
WBGene00012486	-0.097779605	5	1.35E+00	-0.211690984
WBGene00014864	0	6	7.76E-01	-0.266532017
WBGene00006484	-0.152351254	7	2.96E+00	-0.07145844
WBGene00008564	-0.159352677	14	1.46E+01	-0.129671867
WBGene00008565	-0.342392257	16	4.49E+02	-0.22559147
WBGene00008566	-0.158621151	12	9.32E+00	-0.148255948
WBGene00008567	-0.122973692	9	3.37E+00	-0.034493752
WBGene00045468	0.064290201	6	4.82E-01	-0.230315443
WBGene00008568	-0.498629226	11	4.21E+02	-0.657799326
WBGene00008569	-0.51239379	7	5.83E+01	-0.221447972
WBGene00008130	-0.589801699	6	6.05E+01	-0.534021942
WBGene00008131	0.10142482	6	3.67E-01	0.139138898
WBGene00006529	0.301587195	12	2.65E-02	-0.422602154
WBGene00003948	0.179901382	9	1.60E-01	0.038580384
WBGene00001234	0.556609988	8	5.49E-03	-0.181805872
WBGene00004196	-0.079632791	7	1.62E+00	-0.444271086
WBGene00008132	0.103746827	7	3.55E-01	0.087342306
WBGene00008133	-0.007949011	6	8.22E-01	0.004302409
WBGene00008134	-0.063202689	2	7.24E-01	-0.063402092
WBGene00003753	0.035988751	18	1.02E+00	0.235374795
WBGene00004895	0.042539929	42	2.35E+00	-0.057832906
WBGene00004063	0.060771402	47	1.28E+00	-0.119524279
WBGene00012274	0.158656918	16	1.27E-01	0.437019955
WBGene00012275	-0.068502035	20	8.96E+00	-0.073105776
WBGene00003675	0.024151908	19	1.34E+00	-0.007422327
WBGene00012500	-0.465121748	13	7.58E+02	-0.713877884
WBGene00012502	-0.659966956	6	1.02E+02	-0.476050782
WBGene00012501	0	1	5.26E-01	0.005646588
WBGene00012503	-0.239333584	3	1.90E+00	-1
WBGene00045234	-0.404962338	3	4.14E+00	-1
WBGene00012504	-0.299555949	4	3.56E+00	-0.403311428
WBGene00012509	-0.108483744	2	8.60E-01	-0.205960467
WBGene00012505	0.176097312	12	1.31E-01	-0.371487289
WBGene00007655	-0.027731033	44	4.64E+01	0.056535213
WBGene00012510	0	2	5.69E-01	0
WBGene00077684	-0.035198695	4	8.09E-01	0.354149851
WBGene00007656	-0.218538127	8	6.72E+00	-0.201730565
WBGene00044711	0.014778184	2	5.38E-01	0
WBGene00044709	0.012701301	11	9.83E-01	-0.168068405

WBGene00007657	-0.427222485	7	2.88E+01	-0.259883945
WBGene00007658	0.013850593	8	7.98E-01	0.124695504
WBGene00007662	0.02163902	6	6.61E-01	-0.080793118
WBGene00044708	0.062530465	8	5.10E-01	-0.025208066
WBGene00007661	-0.233314527	8	7.70E+00	-0.193104668
WBGene00007659	-1	11	5.08E+05	-0.251521677
WBGene00044237	-0.21499774	8	6.51E+00	-0.159664603
WBGene00007660	-0.592220156	11	1.28E+03	-0.398337627
WBGene00009061	-0.39742975	9	5.34E+01	-0.6461839
WBGene00044707	-0.078974953	4	1.03E+00	-0.094347675
WBGene00009063	-0.555414566	3	8.40E+00	0.300471963
WBGene00009064	2	18	2.10E-14	2
WBGene00009065	0.183469632	82	2.84E-04	0.162836316
WBGene00077766	0.318222926	4	1.12E-01	-0.8922123
WBGene00008905	-0.08053204	10	2.56E+00	-0.001693898
WBGene00138716	0	2	5.69E-01	0
WBGene00045458	0	3	6.15E-01	0
WBGene00008906	-0.057705979	9	1.75E+00	-0.036030704
WBGene00008907	-0.109008729	5	1.46E+00	-0.126188454
WBGene00008908	-0.94871362	6	8.57E+02	-0.969677116
WBGene00044058	-0.43437193	8	4.87E+01	-0.570153827
WBGene00008909	-0.882047096	6	5.24E+02	-1
WBGene00014235	-0.944373459	7	2.08E+03	-0.367078063
WBGene00014236	-0.229805338	5	3.19E+00	-0.320517411
WBGene00014238	-0.235220292	7	5.88E+00	-0.369569723
WBGene00014239	-0.139268687	6	2.17E+00	0.087489848
WBGene00006048	-0.128960278	5	1.66E+00	0.253070309
WBGene00014196	-0.590978241	9	3.75E+02	-0.584032885
WBGene00014197	-0.328170337	13	1.17E+02	-0.470447354
WBGene00014200	-0.153122244	5	1.94E+00	0.00686451
WBGene00044786	-0.005538574	3	6.31E-01	-0.033067426
WBGene00014201	-0.509395113	10	2.81E+02	-0.608278186
WBGene00014199	-0.194821666	9	6.95E+00	-0.004521818
WBGene00014198	-0.306279126	13	8.69E+01	-0.337946998
WBGene00009695	-0.098725354	14	6.05E+00	-0.283431896
WBGene00009698	-0.083051099	9	2.26E+00	-0.145993845
WBGene00009696	-0.455692174	8	5.92E+01	-0.351349538
WBGene00006902	-0.459414967	14	1.14E+03	-0.014006704
WBGene00010805	0.003925871	11	1.09E+00	0.035461098
WBGene00010806	0.044347928	14	7.57E-01	0.17930642
WBGene00010807	0.355522789	5	7.13E-02	0.372214906
WBGene00006595	0.949795847	19	3.11E-08	1
WBGene00010808	2	10	2.51E-08	1
WBGene00011431	0.035652533	20	1.13E+00	0.325023656
WBGene00011432	1	16	1.61E-09	0.931720934
WBGene00011435	0.447342009	2	1.03E-01	1
WBGene00011433	0.797308701	22	8.41E-08	0.895273818

WBGene00001555	1	33	1.30E-13	0.812507059
WBGene00011434	2	6	8.74E-07	2
WBGene00012343	0.868248262	17	5.91E-07	0.6364141
WBGene00012345	0.247955103	8	9.32E-02	-0.064649999
WBGene00004915	0.741096338	5	5.83E-03	0.549391098
WBGene00012344	0.807795982	13	2.20E-05	0.797270501
WBGene00012732	-0.035524322	6	1.01E+00	-0.022946881
WBGene00012733	0.260788908	13	3.81E-02	-0.257558126
WBGene00012734	0.073182532	16	5.10E-01	0.09419595
WBGene00012735	0	8	9.06E-01	0
WBGene00077546	-0.201638346	3	1.59E+00	0.028223905
WBGene00007218	-0.173843068	11	8.97E+00	0.06240889
WBGene00007217	-0.114943627	7	2.17E+00	0.184897006
WBGene00007215	0.1754354	8	1.81E-01	0.305671577
WBGene00007216	-0.023957406	6	9.26E-01	-0.020532471
WBGene00007214	-0.020247083	9	1.20E+00	-1
WBGene00007219	0.07787378	5	4.33E-01	-0.325829459
WBGene00007213	0.175268677	4	2.49E-01	-0.449708434
WBGene00012290	0.62249441	5	1.26E-02	-0.187721722
WBGene00219206	0.478526632	3	6.46E-02	-0.515616038
WBGene00012289	0.279213819	11	4.18E-02	0.593747501
WBGene00044066	0.126831588	4	3.26E-01	0.067351727
WBGene00012739	0.008220747	3	5.91E-01	0.080464953
WBGene00012740	-0.0318023	8	1.21E+00	0.010665548
WBGene00012738	0.118686018	5	3.32E-01	0
WBGene00005010	0.099534172	22	3.10E-01	0.094369354
WBGene00013023	0	4	6.64E-01	0
WBGene00013021	0.198828124	31	1.47E-02	0.188613597
WBGene00013020	0.158883807	8	2.11E-01	0.138724897
WBGene00013019	-0.011495146	16	2.03E+00	-0.020413641
WBGene00013018	0.08769276	5	4.06E-01	-0.010047637
WBGene00013603	0.156101962	5	2.60E-01	0.250813085
WBGene00003585	-0.080250025	3	8.97E-01	-0.10440115
WBGene00044260	-0.423548879	9	6.95E+01	-0.081399344
WBGene00013604	-0.20518605	2	1.24E+00	-0.076086631
WBGene00013593	0.002772917	16	1.61E+00	-0.008458676
WBGene00219288	-0.003249674	1	5.31E-01	-0.002124063
WBGene00044261	-0.219685941	9	8.93E+00	-0.049883334
WBGene00013594	-0.000504507	5	7.20E-01	0.059227797
WBGene00013595	-0.064979937	10	2.16E+00	-0.018772282
WBGene00000089	0.215281695	4	1.99E-01	0.179219782
WBGene00006936	0.063953689	31	8.06E-01	0.102377215
WBGene00013602	-0.087936354	8	2.03E+00	-0.049381487
WBGene00001704	-0.305921274	6	7.43E+00	-0.443357362
WBGene00000891	-0.200296435	21	1.59E+02	-0.163679293
WBGene00013596	0.137845873	14	1.95E-01	-0.007704134
WBGene00013597	0.126886105	15	2.20E-01	0.38602373

WBGene00006709	0.069593067	6	4.64E-01	0.162267366
WBGene00013598	-0.031198016	7	1.09E+00	-0.014228246
WBGene00013599	-0.055269246	15	3.65E+00	-0.027450913
WBGene00013601	-0.070612253	6	1.31E+00	0.111570625
WBGene00012386	-0.001351196	39	1.05E+01	0.05039073
WBGene00012351	0.019844797	5	6.31E-01	0.076233267
WBGene00006793	-0.016991478	4	7.30E-01	0.184853738
WBGene00002116	0	1	5.26E-01	0
WBGene00012352	-0.065683247	12	2.85E+00	-0.035428685
WBGene00004445	0.300470408	5	1.02E-01	0.233203412
WBGene00012353	0.110985734	12	3.00E-01	-0.156113457
WBGene00012354	0.258378728	4	1.56E-01	0.242690328
WBGene00194660	-0.231779375	7	5.71E+00	-1
WBGene00012234	0.000962258	15	1.54E+00	0.031016659
WBGene00012233	-0.004537775	2	5.79E-01	0.003499722
WBGene00012232	-0.026352504	2	6.29E-01	0.00475871
WBGene00012231	-0.01599486	5	7.96E-01	0.12548334
WBGene00012235	-0.014160297	2	6.00E-01	0.013818722
WBGene00012387	0.00102023	130	1.03E+04	-0.149578751
WBGene00012388	-0.23439654	30	4.27E+03	-0.15023722
WBGene00012394	0	9	9.79E-01	-0.000404589
WBGene00006505	0.032931535	19	1.14E+00	-0.095580241
WBGene00012393	0.295301472	47	4.25E-05	0.1335901
WBGene00012391	0.95646894	15	6.12E-07	0.55303971
WBGene00012390	-0.039702739	6	1.04E+00	0.071114867
WBGene00012389	-0.027228108	19	3.56E+00	-0.004099667
WBGene00012576	0.052439235	11	6.14E-01	-0.027066382
WBGene00012578	0.08354356	28	4.46E-01	0.012407028
WBGene00012577	-0.261768676	9	1.36E+01	-0.636320317
WBGene00003581	0.025485245	3	5.45E-01	0.053363753
WBGene00014871	0.012273186	6	7.08E-01	-0.026110545
WBGene00012370	0.135138084	10	2.41E-01	0.201492171
WBGene00044065	0.010464743	3	5.85E-01	0.00777546
WBGene00012366	0.023779773	10	8.15E-01	0.095946219
WBGene00012371	0.003897092	3	6.03E-01	-0.004491853
WBGene00012369	0.075816428	25	5.34E-01	0.168539823
WBGene00012365	0.374795534	12	1.04E-02	0.252650681
WBGene00012236	-0.040221326	7	1.17E+00	0.073606023
WBGene00012237	-0.185570239	6	3.05E+00	-0.442954752
WBGene00012239	-0.161199412	9	4.96E+00	-0.511133631
WBGene00012238	-0.16427321	7	3.27E+00	-0.284745486
WBGene00012240	-0.137206839	3	1.17E+00	-0.362293387
WBGene00195155	-0.001610594	1	5.29E-01	-0.006388196
WBGene00012241	0.013648224	11	9.72E-01	0.071064088
WBGene00006382	-0.059032895	61	1.55E+03	0.020605375
WBGene00013500	-0.184217211	7	3.85E+00	-0.22314423
WBGene00013501	0.041992222	8	6.16E-01	0

WBGene00006616	-0.121555998	53	1.19E+04	-0.141899279
WBGene00013502	-0.169088332	5	2.15E+00	-0.325308497
WBGene00013503	-0.206458958	7	4.63E+00	-0.191603864
WBGene00195229	-0.071451803	6	1.31E+00	-0.166477002
WBGene00195228	0.041497424	3	5.06E-01	-0.703780728
WBGene00195227	0.014097651	2	5.39E-01	-0.017542076
WBGene00013505	0.129688692	8	2.76E-01	-0.239680339
WBGene00013506	0.159011814	13	1.53E-01	0.235805731
WBGene00004475	0.737555205	6	3.34E-03	0.01383899
WBGene00013507	-0.034803858	6	1.00E+00	-0.093783426
WBGene00013508	-0.630467402	10	1.06E+03	-0.81808732
WBGene00045058	-0.070340169	19	8.08E+00	-0.100273951
WBGene00013511	-0.141312541	15	1.38E+01	-0.017370429
WBGene00013509	-0.132160011	62	1.17E+05	-0.378634971
WBGene00013865	0.002375753	8	8.86E-01	-0.187178403
WBGene00002111	-0.003174094	3	6.24E-01	-0.004145589
WBGene00086553	-0.552696896	3	8.29E+00	0.147190388
WBGene00002112	-0.455637673	4	8.52E+00	-0.425317571
WBGene00002108	0.186882399	2	2.79E-01	-0.2633933
WBGene00002110	0.228159421	1	2.70E-01	0.469664649
WBGene00045396	0.700732675	2	3.92E-02	0.855520651
WBGene00002107	0.269023733	5	1.25E-01	0.723267225
WBGene00002113	-0.754132657	9	1.94E+03	-0.48069787
WBGene00002109	-0.038028364	1	5.88E-01	-0.080218852
WBGene00013512	-0.050485129	5	9.96E-01	-0.152391486
WBGene00013513	0.035855591	2	4.96E-01	0.007975504
WBGene00004875	-0.036831333	16	3.07E+00	0.087072569
WBGene00303058	-0.041564799	1	5.94E-01	0.020760987
WBGene00009822	-0.266572007	5	4.05E+00	-0.174262311
WBGene00009827	0.013828868	6	7.00E-01	-0.116984384
WBGene00009826	-0.28716043	9	1.76E+01	-1
WBGene00009825	0.68067335	15	4.31E-05	0.709108771
WBGene00009824	0.482443169	14	1.30E-03	0.370736583
WBGene00009823	0.174759562	20	7.11E-02	0.006088052
WBGene00013408	-0.025409361	5	8.46E-01	0.137446104
WBGene00013409	-0.308832195	14	1.28E+02	-0.519450221
WBGene00013404	-0.418383875	8	4.20E+01	0.06640143
WBGene00013403	-0.095394832	21	1.80E+01	-0.073792029
WBGene00013405	-0.008334406	5	7.58E-01	0.016922872
WBGene00006565	0.263249299	13	3.68E-02	0.199094345
WBGene00001047	0.013141465	19	1.66E+00	0.120223067
WBGene00013406	0.009577512	1	5.12E-01	0
WBGene00013407	-0.013127444	6	8.55E-01	0.018147759
WBGene00010537	0.029546408	11	8.05E-01	0.000641143
WBGene00002181	0.051454873	34	1.28E+00	0.149937082
WBGene00014700	0	1	5.26E-01	0
WBGene00014699	-0.215274669	1	9.88E-01	0.053493151

WBGene00007990	-0.577082024	8	1.80E+02	-0.713409601
WBGene00014698	-0.242089623	3	1.92E+00	-0.021857668
WBGene00007989	-0.63704533	5	4.49E+01	0.093010514
WBGene00007992	-0.006347618	1	5.36E-01	0.262658636
WBGene00007988	0.370118865	12	1.10E-02	0.341887278
WBGene00007991	0.215489261	12	7.93E-02	0.10781807
WBGene000077520	-0.021451142	3	6.80E-01	-0.502415939
WBGene00004202	0.205931831	12	8.95E-02	0.165030079
WBGene00014100	0.561872805	11	1.47E-03	0.127944753
WBGene00014101	0.763272197	50	7.98E-15	0.480493172
WBGene00014104	0.104697345	3	3.75E-01	-0.067876729
WBGene00014103	0.099101571	14	3.42E-01	0.244827627
WBGene00014102	-0.170749805	13	1.37E+01	-0.154236054
WBGene00008185	-0.162525582	12	9.79E+00	-0.359304106
WBGene00008184	-0.000128964	7	8.39E-01	-0.016946863
WBGene00008186	-0.023291066	6	9.21E-01	0
WBGene00001377	0.058687708	13	5.99E-01	0.132337822
WBGene00008190	0.049724429	5	5.20E-01	-4.48E-05
WBGene00008187	-0.004161149	8	9.41E-01	-0.004920226
WBGene00008191	0.028497458	7	6.62E-01	0.577821032
WBGene00008188	0.22962785	9	9.70E-02	-0.428529722
WBGene00010576	-0.06823135	4	9.73E-01	-0.32520415
WBGene00010577	-0.217159464	7	5.06E+00	-0.029899952
WBGene00010578	-0.386358215	9	4.78E+01	-0.22073747
WBGene00003980	0.159345111	31	4.74E-02	0.053984983
WBGene00008610	1	9	4.78E-07	1
WBGene00008613	-0.054881898	7	1.32E+00	-0.238566256
WBGene00008611	-0.503343451	4	1.11E+01	-0.175460288
WBGene00008612	-0.234531849	42	1.34E+05	-0.158149898
WBGene00009862	-0.794403662	7	6.02E+02	-1
WBGene00009861	-0.431029527	8	4.72E+01	-0.287840901
WBGene00008655	-0.60601196	12	2.79E+03	-0.654715138
WBGene00009863	-0.264755621	7	7.50E+00	-0.17472811
WBGene00268216	-0.914699916	5	2.73E+02	-1
WBGene00005078	-0.284865118	26	4.85E+03	-0.467375085
WBGene00009865	-0.394878915	64	9.73E+11	-0.441339708
WBGene00013666	1	6	6.12E-05	1
WBGene00013667	0.031001838	20	1.24E+00	0.002241212
WBGene00013668	0.130362492	22	1.59E-01	0.150609267
WBGene00001156	-0.074522174	7	1.55E+00	-0.085514352
WBGene00000241	-0.020864852	13	1.77E+00	0.039032385
WBGene00044264	-0.186810246	6	3.08E+00	-0.071707264
WBGene00006824	0.703009453	21	1.12E-06	-0.095975141
WBGene00002977	0.641150555	34	6.54E-09	0.47022106
WBGene00001147	0.576181295	16	1.39E-04	0.305763409
WBGene00013669	0.094922595	12	3.68E-01	0.057667263
WBGene00000158	0.014607088	19	1.61E+00	0.046696695

WBGene00013670	0.001562932	29	4.41E+00	0.026820239
WBGene00013671	-0.400833681	6	1.50E+01	-0.356164228
WBGene00013672	-0.225144568	66	7.39E+07	-0.30087007
WBGene00013684	-5.46E-05	2	5.69E-01	-0.007124056
WBGene00013673	0.069559729	6	4.64E-01	0.151835935
WBGene00013674	0.04532869	9	6.20E-01	-0.086559857
WBGene00004489	0.294201538	4	1.28E-01	-0.348755892
WBGene00013676	-0.020565615	8	1.09E+00	-0.0011246
WBGene00013677	0.035592529	20	1.13E+00	-0.025930079
WBGene00013678	0.006456815	12	1.14E+00	0.068275548
WBGene00013685	-0.141557784	4	1.47E+00	0.016155543
WBGene00013679	-0.051619524	37	5.24E+01	-0.034478015
WBGene00001365	0.063610439	18	6.22E-01	-0.096658359
WBGene00013683	0.581142032	55	4.31E-12	0.374902936
WBGene00013680	-0.048779349	24	9.83E+00	-0.031877883
WBGene00013682	-0.075564992	115	9.87E+06	0.026620899
WBGene00044265	-0.125837625	4	1.34E+00	-0.037269009
WBGene00002978	0.794255178	39	1.95E-12	0.190332402
WBGene00013687	0.034223212	16	9.63E-01	0.210494283
WBGene00013692	0.114338643	11	2.95E-01	0.11731682
WBGene00013689	-0.103033784	9	2.76E+00	-0.19879401
WBGene00013688	0.094947039	12	3.68E-01	0.09163956
WBGene00013690	-0.005419456	8	9.52E-01	0.184226354
WBGene00013691	0.009667625	2	5.48E-01	-0.031361096
WBGene00001334	-0.026326502	19	3.50E+00	0.103480489
WBGene00013693	-0.054016832	20	6.72E+00	0.014952007
WBGene00013197	-0.289185035	7	9.18E+00	-0.115416227
WBGene00013198	-0.084289238	12	3.61E+00	-0.075658528
WBGene00003790	0.135377054	9	2.51E-01	0.050085069
WBGene00013200	0.014121791	5	6.55E-01	0.194369026
WBGene00013201	0.047164781	6	5.47E-01	-0.158975959
WBGene00013202	-0.336379883	15	2.79E+02	-0.212992878
WBGene00013203	0.299570421	9	4.80E-02	-0.015909139
WBGene00003951	0.366883151	11	1.48E-02	-0.49396493
WBGene00010579	0.324206687	8	4.63E-02	0.461473792
WBGene00010587	0.056112515	10	5.72E-01	0.097821331
WBGene00010586	0.016668841	1	5.01E-01	-0.015748106
WBGene00010585	-0.040205874	6	1.04E+00	-0.102479184
WBGene00010584	0.00231121	2	5.64E-01	-0.015844849
WBGene00010581	-0.021528433	10	1.34E+00	0.164203649
WBGene00010583	-0.077311379	5	1.19E+00	0.491506211
WBGene00001979	0.139178803	25	1.14E-01	-0.123566385
WBGene00010582	-0.163345594	13	1.24E+01	0.09812103
WBGene00010580	-0.158416452	15	1.79E+01	-0.262515347
WBGene00009559	-0.257026503	6	5.18E+00	0.224847141
WBGene00001030	0.227969805	15	4.63E-02	-0.136621665
WBGene00043308	0.241906593	4	1.71E-01	-0.344560969

WBGene00004495	0.468208089	3	6.78E-02	-0.387561539
WBGene00009558	0.336409624	23	1.46E-03	0.041932758
WBGene00009557	0.036218341	11	7.44E-01	0.073790295
WBGene00009556	0.008783624	2	5.50E-01	0.010056304
WBGene00006349	0.13416729	27	1.19E-01	0.070468668
WBGene00009554	0.689248498	6	4.77E-03	0.004971773
WBGene00006730	0.18309354	2	2.83E-01	0.300832043
WBGene00009553	0.568625271	16	1.58E-04	0.348026254
WBGene00010766	0.233026094	10	8.23E-02	0.241615523
WBGene00010767	1	5	7.87E-04	0.421146652
WBGene00004889	0.581862972	22	8.96E-06	0.53290252
WBGene00013204	0.128514634	15	2.15E-01	0.130583183
WBGene00002324	0.359382808	7	4.28E-02	0.126934541
WBGene00006711	0.033761571	3	5.24E-01	0.049639989
WBGene00009304	0.684284632	18	8.22E-06	0.381927744
WBGene00044245	-0.34260315	1	1.43E+00	-0.701167765
WBGene00009305	0.149583572	12	1.84E-01	-0.062569003
WBGene00009306	-0.040731088	22	6.48E+00	-0.45659056
WBGene00000088	-0.101679391	13	5.34E+00	-0.203999459
WBGene00006272	-0.413407801	8	4.01E+01	-0.172814149
WBGene00006789	1	46	6.87E-19	-0.320775087
WBGene00008695	0.028185566	8	6.99E-01	0.095004096
WBGene00006845	-0.030271581	11	1.64E+00	-0.091210037
WBGene00001488	0.473753127	138	3.70E-22	0.364773391
WBGene00004237	-1	13	1.84E+08	-0.856162385
WBGene00002189	0.513103911	78	2.21E-14	0.406140026
WBGene00014148	-0.200194026	8	5.68E+00	-0.285308067
WBGene00014149	-0.495307071	7	5.06E+01	-0.287365656
WBGene00000469	-0.122141476	6	1.91E+00	-0.209371386
WBGene00014150	-0.05461432	2	7.01E-01	-0.004841674
WBGene00013970	1	17	3.63E-10	1
WBGene00006399	-0.017341321	7	9.67E-01	0.021294235
WBGene00013969	-0.574111474	28	2.34E+07	-0.489450711
WBGene00003471	-0.436024895	13	5.10E+02	-0.578268287
WBGene00009368	-0.34821354	37	1.72E+06	-0.711491678
WBGene00009369	-0.296250576	7	9.74E+00	-0.577857276
WBGene00001049	-0.080558904	28	3.76E+01	0.056760776
WBGene00009366	-0.074627077	14	4.26E+00	0.083205577
WBGene00009370	-0.510107317	11	4.82E+02	-0.621849829
WBGene00009371	0.449670251	5	3.87E-02	0.316700343
WBGene00009367	2	5	3.95E-05	0.598739084
WBGene00009284	0.323799824	19	4.53E-03	0.108869545
WBGene00000881	0.009229161	5	6.76E-01	0.203669432
WBGene00009285	0.024399735	47	6.36E+00	0.142018265
WBGene00009286	0.129268082	5	3.10E-01	0.132504684
WBGene00009287	-0.258456221	5	3.84E+00	0.378372617
WBGene00009288	-0.127645244	9	3.54E+00	-0.385738748

WBGene00007063	-0.431475288	7	2.98E+01	-0.310350955
WBGene00015287	-0.474941108	4	9.50E+00	-0.269407279
WBGene00015288	-0.812999206	10	7.82E+03	-0.206069234
WBGene00015286	-0.558725916	12	1.53E+03	-0.723890628
WBGene00015285	0.010894769	8	8.19E-01	0.196799539
WBGene00005017	0.034613755	1	4.76E-01	0.020158565
WBGene00015291	0.114286541	3	3.59E-01	-0.192750275
WBGene00017745	0.010036275	10	9.47E-01	-0.018301667
WBGene00017746	-0.341461203	7	1.42E+01	-0.089121268
WBGene00017744	-0.20429176	10	9.92E+00	-0.297891631
WBGene00017743	-0.398867332	6	1.48E+01	-0.441787963
WBGene00017747	-0.494185531	7	5.01E+01	-0.711864179
WBGene00017748	-0.017673541	3	6.68E-01	-0.029196761
WBGene00017750	-0.138853212	4	1.45E+00	-0.313022452
WBGene00004504	-0.056419706	15	3.72E+00	-0.23199303
WBGene00017742	0.06846463	7	4.75E-01	-0.221702723
WBGene00017749	-0.169047395	6	2.70E+00	0.079461751
WBGene00016021	-0.07597819	6	1.36E+00	0.142008546
WBGene00016020	-0.265962348	30	1.06E+04	-0.407150423
WBGene00006611	-0.427860692	13	4.56E+02	-0.176259091
WBGene00016019	-0.308727081	18	5.25E+02	-0.725109245
WBGene00016018	-0.46596488	8	6.50E+01	-0.629923829
WBGene00001193	-0.500314423	4	1.09E+01	-0.767625049
WBGene00016022	-0.491248836	21	6.72E+04	-0.684489564
WBGene00016809	0.404871236	11	9.43E-03	0.574150065
WBGene00016812	0.166949282	9	1.82E-01	-0.020932624
WBGene00016810	0.001373928	12	1.21E+00	0.292491
WBGene00016811	0.112314468	7	3.31E-01	0.038247309
WBGene00016808	0.006847562	1	5.16E-01	-0.005606819
WBGene00044420	-0.103119245	4	1.18E+00	0.089442385
WBGene00000644	-0.576570876	5	3.03E+01	-0.848057641
WBGene00016807	-0.38908046	8	3.21E+01	-0.274505898
WBGene00016806	-0.160118887	6	2.53E+00	-0.100930829
WBGene00016805	-0.11782902	9	3.20E+00	-0.065448625
WBGene00019615	-0.321271361	16	3.18E+02	-0.245855866
WBGene00019614	-0.007177083	2	5.85E-01	-0.009368627
WBGene00019616	-0.326316547	5	5.97E+00	-0.127541365
WBGene00005081	0.031875549	10	7.46E-01	-0.164991301
WBGene00000857	0.334348511	11	2.17E-02	-0.189485666
WBGene00019613	-0.438066341	22	3.55E+04	-0.306423064
WBGene00020798	0.002537577	8	8.85E-01	-5.04E-05
WBGene00020797	-0.009853025	14	1.66E+00	0.005719035
WBGene00020796	-0.06483203	3	8.34E-01	-0.072467146
WBGene00001340	0.230115331	14	5.09E-02	-0.035854394
WBGene00044428	-0.137167685	6	2.14E+00	0.090349502
WBGene00020148	-0.225916327	4	2.35E+00	0.135391861
WBGene00020149	-0.011621443	6	8.45E-01	0.034592262

WBGene00044641	-0.078514974	31	5.55E+01	0.004124313
WBGene00020150	-0.044709808	7	1.21E+00	0.011468246
WBGene00000034	-0.40695206	6	1.57E+01	-0.210106974
WBGene00000497	-0.348503677	54	1.28E+09	-0.520873526
WBGene00018585	0.098671348	11	3.55E-01	-0.026789746
WBGene00018586	0.526646235	17	2.11E-04	0.919688523
WBGene00021545	-0.055262499	14	3.22E+00	0.025559481
WBGene00021546	-0.015683729	8	1.05E+00	0.065584227
WBGene00004166	-0.028946757	43	4.40E+01	0.104681344
WBGene00000296	-1	16	2.21E+07	-1
WBGene00044640	-0.033446881	3	7.19E-01	-0.055612704
WBGene00015188	-0.071577813	14	4.08E+00	-0.064452575
WBGene00015189	-0.173209055	6	2.79E+00	-0.256443606
WBGene00015194	0.012631239	7	7.55E-01	-0.080444165
WBGene00015190	-0.035702202	6	1.01E+00	0.199165148
WBGene00015191	-0.009222912	4	6.99E-01	-0.002293377
WBGene00015186	-0.032463697	3	7.16E-01	-0.048842502
WBGene00015185	0.029154984	4	5.64E-01	0.055838825
WBGene00015184	0.041146523	3	5.06E-01	-0.097373576
WBGene00015192	-0.094951577	4	1.13E+00	-0.060944468
WBGene00015193	-2	10	6.78E+08	-1
WBGene00015183	-0.903302588	16	4.23E+06	-1
WBGene00019281	-0.553358513	4	1.47E+01	-0.565261714
WBGene00019280	-0.087884275	4	1.09E+00	-0.01010812
WBGene00000645	-0.129417987	4	1.37E+00	0.000912002
WBGene00019279	0.595234887	18	4.12E-05	0.258421722
WBGene00019282	0.595818493	8	3.83E-03	0.106666886
WBGene00019283	0.05160206	4	4.97E-01	-0.179708183
WBGene00086561	0.019215336	4	5.96E-01	-0.050220926
WBGene00001391	0.181218262	2	2.85E-01	0.09984859
WBGene00019284	0.128057757	4	3.24E-01	0.258021531
WBGene00019277	0.279905705	3	1.65E-01	0.291762688
WBGene00019285	-0.205087245	7	4.58E+00	0.022314343
WBGene00000778	-0.846799312	7	9.29E+02	-0.558926741
WBGene00017036	-0.16263756	5	2.06E+00	-0.316820626
WBGene00017037	0.095201667	11	3.70E-01	0.081055222
WBGene00017038	0.153686118	15	1.46E-01	0.293012583
WBGene00004218	-0.092960189	18	1.06E+01	-0.140993138
WBGene00015406	-0.807773999	4	6.13E+01	-0.475050666
WBGene00206366	-0.153318729	7	2.98E+00	-0.425849042
WBGene00015409	-0.332008816	4	4.26E+00	0.188552878
WBGene00015407	-0.125179647	16	1.30E+01	0.18705054
WBGene00015405	-0.055098698	3	7.97E-01	-0.016306189
WBGene00015404	0.000741026	5	7.14E-01	0.040678392
WBGene00015408	-0.126342543	9	3.49E+00	0.747432587
WBGene00015403	-0.105148629	3	1.01E+00	-0.316325494
WBGene00016074	-0.082790227	17	7.56E+00	-0.148871894

WBGene00016073	0.039655826	12	7.45E-01	0.021447415
WBGene00016075	-0.20160143	9	7.44E+00	-0.011852179
WBGene00016077	0.045555465	3	4.96E-01	-0.068532164
WBGene00235333	0.21078132	3	2.28E-01	0.156931483
WBGene00016072	-0.92906962	8	4.55E+03	-1
WBGene00016071	-0.154270591	9	4.62E+00	-0.112493853
WBGene00021129	-0.019133373	2	6.12E-01	0.281318556
WBGene00185079	0.007831529	8	8.43E-01	0.009941002
WBGene00021131	0.004031029	3	6.03E-01	0.007211388
WBGene00021132	-0.051646466	12	2.38E+00	-0.144969581
WBGene00021133	-0.001204961	4	6.69E-01	-0.000790094
WBGene00021073	0.174102303	13	1.24E-01	0.394838246
WBGene00021076	0.023438832	1	4.92E-01	0.103942058
WBGene00021074	0.309785673	13	1.95E-02	-0.132585068
WBGene00004188	0.133992861	14	2.06E-01	-0.057629907
WBGene00021075	-0.129100227	9	3.59E+00	-0.210933837
WBGene00005324	-0.028977719	3	7.04E-01	0.004446375
WBGene00005512	-0.43269103	4	7.50E+00	-0.355627779
WBGene00003106	0.05670125	14	6.33E-01	-0.426623106
WBGene00020837	-0.118715202	8	2.69E+00	0.128689067
WBGene00020836	0.182944935	12	1.20E-01	0.454560778
WBGene00020834	-0.037734916	4	8.20E-01	-0.10709296
WBGene00020835	-0.169607824	33	1.31E+03	-0.145789187
WBGene00015646	0.174763756	17	8.99E-02	-0.032765306
WBGene00015645	-0.141194564	6	2.20E+00	0.041608214
WBGene00015644	-0.125189275	23	4.88E+01	-0.131037036
WBGene00303037	-0.00959788	1	5.41E-01	0
WBGene00021094	-0.038979597	2	6.60E-01	-0.050477186
WBGene00021095	-0.450418286	14	1.00E+03	-0.921879143
WBGene00021096	-0.110991986	9	2.99E+00	-0.051202024
WBGene00021097	-0.019516651	9	1.19E+00	-0.050214365
WBGene00021093	-0.014245928	1	5.49E-01	-0.026985036
WBGene00021098	-0.642495545	7	1.71E+02	-0.303890984
WBGene00021101	-0.246949068	4	2.65E+00	-0.304034386
WBGene00044733	-0.01232307	5	7.78E-01	-0.261553217
WBGene00021092	-2	4	4.10E+03	-1
WBGene00021099	-0.005720713	1	5.35E-01	-0.014903366
WBGene00021091	0.275414192	3	1.68E-01	-0.017406193
WBGene00003599	-0.151792753	12	8.54E+00	0.073509622
WBGene00021031	-0.050092948	3	7.78E-01	0.780418702
WBGene00206416	0.005090191	1	5.19E-01	0.15282667
WBGene00206417	0.071286043	3	4.39E-01	-0.097869355
WBGene00021030	-0.376501642	2	2.39E+00	-0.680597349
WBGene00021032	-0.104412173	6	1.68E+00	-0.1612809
WBGene00020207	-0.472024576	25	3.31E+05	-0.360591306
WBGene00020205	-0.297865167	7	9.87E+00	-0.796262876
WBGene00020203	-0.198980708	6	3.37E+00	-0.138262385

WBGene00019497	-0.213360848	6	3.75E+00	-0.205734869
WBGene00019498	0.339765167	38	4.59E-05	0.138997749
WBGene00019496	0.470054941	16	7.87E-04	0.107963889
WBGene00019495	-0.502286904	4	1.11E+01	-0.313446012
WBGene00005557	-0.139459698	7	2.66E+00	-0.128449811
WBGene00005558	-0.020074995	5	8.18E-01	-0.004019785
WBGene00206368	-0.061361767	6	1.22E+00	-0.037436726
WBGene00021457	-0.124865562	10	4.15E+00	-0.037972608
WBGene00020179	-0.109640482	4	1.23E+00	-0.433685322
WBGene00020180	-0.005720713	1	5.35E-01	-0.011191933
WBGene00020178	-0.001756359	3	6.20E-01	-0.00343612
WBGene00020177	-0.222061598	4	2.30E+00	0.191544662
WBGene00020176	0	1	5.26E-01	0
WBGene00020175	-0.12500785	5	1.62E+00	-0.127670588
WBGene00020174	-0.367772165	15	4.52E+02	-0.313071499
WBGene00020173	0	3	6.15E-01	-0.002877546
WBGene00020181	0.006014762	6	7.42E-01	-0.187374127
WBGene00020172	-0.001042794	12	1.25E+00	-0.038982912
WBGene00020171	-0.157546441	35	1.39E+03	-0.321017956
WBGene00021456	0.014095233	13	1.10E+00	0.080048388
WBGene00015615	-0.596824713	8	2.16E+02	-0.90076498
WBGene00004926	-0.070494575	8	1.73E+00	-0.067785814
WBGene00044418	0.284114794	13	2.77E-02	0.25856939
WBGene00015618	0	2	5.69E-01	0
WBGene00021452	0.394479159	4	7.29E-02	0.47182086
WBGene00021454	0.003008637	2	5.62E-01	-0.043240111
WBGene00269332	-0.000223641	4	6.65E-01	-0.083114456
WBGene00018507	-0.281756907	5	4.47E+00	-0.014153041
WBGene00018506	-1	4	2.71E+02	-0.116043592
WBGene00018493	-0.003988785	4	6.79E-01	-0.003705126
WBGene00018505	-0.298835714	6	7.05E+00	-0.131034884
WBGene00018504	-0.012615572	1	5.46E-01	-0.008255095
WBGene00018502	-0.821326273	13	9.75E+04	-0.963143921
WBGene00018496	-1	9	9.91E+04	-0.89725171
WBGene00018497	-0.71061061	5	7.24E+01	-0.499367204
WBGene00018498	-0.334691835	10	4.14E+01	-0.512293684
WBGene00018499	-0.204623248	2	1.24E+00	-0.279815089
WBGene00018500	-0.314066924	5	5.52E+00	-0.232344042
WBGene00018501	-0.455899671	6	2.25E+01	-0.083666293
WBGene00017869	-0.433691946	6	1.91E+01	-0.510719018
WBGene00017876	-1	5	1.20E+03	-0.544213065
WBGene00017871	-0.040536824	2	6.64E-01	-0.062845117
WBGene00017872	-0.068205619	4	9.73E-01	0.092332663
WBGene00017875	-1	3	1.35E+02	-0.986815453
WBGene00017874	-0.413440692	5	1.05E+01	-0.290168485
WBGene00284851	-0.118186358	2	8.93E-01	-0.139610548
WBGene00017873	-0.442377957	6	2.04E+01	-0.053603766

WBGene00021577	-0.127004654	42	1.91E+03	-0.162371749
WBGene00284850	-0.522693759	4	1.24E+01	-0.497182636
WBGene00021578	-0.017642658	5	8.05E-01	-0.021092334
WBGene00021576	-0.322059095	11	5.19E+01	-0.300986996
WBGene00000106	0.384659945	57	5.84E-08	-0.313425284
WBGene00020307	-0.068294742	27	2.35E+01	0.015328946
WBGene00020311	-0.08294313	14	4.81E+00	-0.120383588
WBGene00020305	0.009659219	2	5.48E-01	0.083493595
WBGene00019927	-0.154819559	11	7.16E+00	0.043009274
WBGene00019926	-0.207311576	7	4.66E+00	0.07206379
WBGene00019925	0.07225682	7	4.61E-01	0.206413835
WBGene00019924	0.160562867	6	2.37E-01	-0.219381092
WBGene00019923	-0.101459818	8	2.30E+00	-0.173109799
WBGene00045302	-0.372393791	10	6.26E+01	-0.510707885
WBGene00019928	0.036882329	9	6.75E-01	-0.239428539
WBGene00019922	-0.926519082	11	6.70E+04	-0.780241507
WBGene00019929	-0.238503201	2	1.41E+00	-0.595752827
WBGene00019921	-0.003006772	1	5.31E-01	0.002621816
WBGene00019920	-0.229422556	15	5.36E+01	-0.284124947
WBGene00019919	-0.318826278	9	2.42E+01	-0.04412234
WBGene00019918	-0.189794735	10	8.46E+00	-0.104977643
WBGene00019917	-0.084958133	11	3.13E+00	-0.184446652
WBGene00016303	-0.500968886	13	1.24E+03	-0.656096243
WBGene00016302	-0.167724829	8	4.22E+00	-0.404941606
WBGene00016309	-1	7	1.09E+04	-0.708616878
WBGene00016300	-0.072982086	12	3.13E+00	-0.156126894
WBGene00235351	-1	3	9.51E+01	-0.865531162
WBGene00016306	0.076195612	4	4.33E-01	-0.225614998
WBGene00016307	-0.541281889	4	1.38E+01	-0.554752612
WBGene00016299	-0.099648946	7	1.91E+00	-0.279188306
WBGene00016308	-0.672306384	8	4.31E+02	-1
WBGene00016298	-0.091642804	4	1.11E+00	0.077829843
WBGene00044419	0.004387776	5	6.98E-01	0.025601064
WBGene00016297	-0.361693392	7	1.67E+01	-0.301408074
WBGene00005479	-0.430001079	7	2.95E+01	-0.51706196
WBGene00016295	0.032217912	8	6.74E-01	-0.093012647
WBGene00018456	-0.082878569	8	1.94E+00	-0.28638672
WBGene00018455	-0.321386685	17	4.59E+02	-0.263214706
WBGene00043327	0.038357855	8	6.37E-01	-0.508818803
WBGene00043328	-0.326521286	9	2.62E+01	-0.462189161
WBGene00018457	-0.449251743	3	5.10E+00	-0.039848444
WBGene00018458	-0.684114456	3	1.54E+01	-0.163511358
WBGene00018452	-0.20424981	5	2.70E+00	-0.338026699
WBGene00018459	0	9	9.79E-01	0
WBGene00018460	0	9	9.79E-01	0
WBGene00018461	0	9	9.79E-01	0
WBGene00019700	-0.689349902	8	5.04E+02	-1

WBGene00269373	-0.045874443	6	1.09E+00	0.051670981
WBGene00019699	-0.234254366	17	1.02E+02	-0.216238006
WBGene00019702	0	3	6.15E-01	-0.596247312
WBGene00019703	-4.13E-05	3	6.15E-01	-0.156015988
WBGene00019705	-0.003062503	3	6.24E-01	0.064362144
WBGene00006195	-0.127107152	4	1.35E+00	-0.230703789
WBGene00019704	-0.257138531	3	2.06E+00	-0.043514012
WBGene00019312	-0.253679698	2	1.50E+00	0.074217969
WBGene00019313	0.204537728	13	8.20E-02	0.207655199
WBGene00019314	-0.117349355	4	1.28E+00	-0.009382214
WBGene00019316	0.04601411	3	4.95E-01	0.240389424
WBGene00019309	0	2	5.69E-01	0
WBGene00019315	0	5	7.18E-01	0
WBGene00019306	-0.073992287	3	8.71E-01	0.069491564
WBGene00004902	0.081065271	14	4.44E-01	0.295991409
WBGene00020471	-0.065132128	8	1.65E+00	0.093415396
WBGene00020476	-0.03039471	7	1.08E+00	-0.057249651
WBGene00000617	0.005933522	7	7.98E-01	-0.217513114
WBGene00020472	-0.130569889	6	2.03E+00	-0.058402874
WBGene00020473	-0.221659285	4	2.30E+00	-0.375198983
WBGene00020474	0	3	6.15E-01	-0.00866244
WBGene00020475	-0.02994238	2	6.38E-01	-0.019542245
WBGene00021103	0.014711741	10	9.00E-01	-0.009749263
WBGene00006387	0.034038536	8	6.63E-01	-0.028667818
WBGene00021104	0.093365634	7	3.87E-01	0.234907469
WBGene00004076	-0.102186659	120	3.73E+08	-0.395045892
WBGene00021105	-0.009618653	6	8.33E-01	-0.42543066
WBGene00020740	-0.011256266	3	6.48E-01	-0.003288333
WBGene00020741	0.009185777	5	6.76E-01	0
WBGene00003545	-0.166604954	12	1.03E+01	-0.358921148
WBGene00018734	0.094342286	43	3.01E-01	0.110270358
WBGene00018572	0.034305827	39	2.83E+00	-0.071488802
WBGene00018575	-0.665076724	13	1.16E+04	-0.520114291
WBGene00023410	-0.426044132	14	7.03E+02	-0.563312488
WBGene00018573	-0.724237658	13	2.59E+04	-0.482660303
WBGene00005813	0	4	6.64E-01	-0.001938722
WBGene00021968	-0.120202568	7	2.27E+00	0.04085328
WBGene00021974	-0.254259449	2	1.50E+00	0.050796642
WBGene00023499	-0.190561815	9	6.66E+00	-0.252164753
WBGene00021969	-0.031389389	15	2.53E+00	-0.320001632
WBGene00021967	-0.605311728	3	1.06E+01	0.0154534
WBGene00021970	-0.022426701	18	2.95E+00	-0.219560111
WBGene00021966	-1	4	2.57E+03	-0.889851972
WBGene00021965	-0.003928426	3	6.26E-01	-0.002109366
WBGene00021972	-0.172933705	4	1.75E+00	0
WBGene00021973	0.045759096	4	5.14E-01	-0.014124895
WBGene00000112	-0.004133538	10	1.11E+00	-0.042313484

WBGene00018974	0.100582852	25	2.92E-01	0.047326462
WBGene00006924	1	11	4.52E-06	0.799606407
WBGene00002176	0.099879057	33	2.71E-01	0.109767745
WBGene00015728	0.000261843	7	8.36E-01	-0.002948841
WBGene00015729	0.150134049	5	2.71E-01	0.320206687
WBGene00018817	0.060352921	1	4.41E-01	0.01265779
WBGene00018819	0.531229718	15	4.31E-04	0.355933245
WBGene00044424	-0.817389418	3	2.88E+01	-0.103652609
WBGene00018822	0	1	5.26E-01	0
WBGene00018820	0	2	5.69E-01	0
WBGene00000008	0	7	8.38E-01	-0.04947443
WBGene00044425	-0.340312014	3	3.05E+00	-0.31897938
WBGene00018821	-0.0236958	5	8.37E-01	-0.033808982
WBGene00018816	-0.886495409	7	1.29E+03	-0.456349416
WBGene00018815	-0.246562278	4	2.64E+00	0.718624559
WBGene00021786	0.405417268	3	9.11E-02	0.301451282
WBGene00021785	0.210130137	5	1.83E-01	0.171565161
WBGene00302984	0.184060389	1	3.07E-01	0.134119439
WBGene00021784	0.118111938	13	2.67E-01	-0.047754055
WBGene00021787	0.459378794	11	4.94E-03	-0.115341067
WBGene00021783	0.000538115	18	1.95E+00	-0.129510386
WBGene00021788	-0.04166889	7	1.18E+00	0.008187377
WBGene00021789	-0.074203677	30	4.23E+01	-0.051333294
WBGene00021781	-0.180300041	6	2.94E+00	-0.194094038
WBGene00021790	-0.027240698	11	1.58E+00	-0.052174967
WBGene00021780	-0.154202003	3	1.27E+00	0.147551381
WBGene00044439	0	51	2.54E+01	-0.058145748
WBGene00021791	-0.094483698	8	2.15E+00	-0.027884716
WBGene00021779	-0.253836072	6	5.06E+00	-0.033305627
WBGene00000646	-0.212783406	6	3.73E+00	-0.18510215
WBGene00044643	-0.058232956	3	8.09E-01	-0.342333732
WBGene00019209	0.015569066	26	2.47E+00	0.076231431
WBGene00019207	0.385091011	10	1.56E-02	0.292128519
WBGene00021772	0.030944316	14	9.20E-01	0.055723167
WBGene00044645	0	2	5.69E-01	0
WBGene00021778	0	2	5.69E-01	0
WBGene00021776	0.024084747	8	7.26E-01	0.133448995
WBGene00021774	0.178574275	1	3.12E-01	0.217442235
WBGene00021773	0.10356219	5	3.66E-01	0.104981385
WBGene00019416	-0.029263586	5	8.68E-01	0.542404128
WBGene00044697	-0.336230276	7	1.36E+01	-0.241802041
WBGene00019415	-0.264530086	7	7.49E+00	-0.169603114
WBGene00045486	-0.674303976	4	2.90E+01	-0.087390487
WBGene00019417	-0.310820133	6	7.70E+00	-0.114329373
WBGene00019414	0.061296354	3	4.61E-01	-0.030399396
WBGene00019418	0	1	5.26E-01	0
WBGene00019413	0	4	6.64E-01	0

WBGene00219239	-0.00959788	1	5.41E-01	-0.009407048
WBGene00019419	-0.685641294	3	1.55E+01	-0.511433495
WBGene00019412	-0.000486033	4	6.66E-01	-0.38360501
WBGene00019420	-0.175381403	4	1.77E+00	0
WBGene00019421	-0.065155917	13	3.24E+00	-0.872730165
WBGene00020326	-0.298809672	18	4.39E+02	-0.608839147
WBGene00219321	-0.149710969	4	1.54E+00	-0.055396722
WBGene00020327	-0.483771058	8	7.65E+01	-0.58414524
WBGene00194704	-0.726719093	4	3.89E+01	-1
WBGene00044429	-0.841799777	7	8.91E+02	-0.757470169
WBGene00020328	-0.468603995	12	4.84E+02	-0.076875722
WBGene00020325	0.126079532	4	3.28E-01	-0.003454955
WBGene00020329	0.366854423	10	1.90E-02	0.122824922
WBGene00006464	0.095325521	18	3.50E-01	0.115581587
WBGene00015595	-0.505270578	36	2.49E+08	-0.918798223
WBGene00015598	-0.485555808	12	6.01E+02	-0.705033066
WBGene00015599	-0.453734587	8	5.81E+01	-0.689386912
WBGene00015600	-0.640411434	12	4.32E+03	-0.771447965
WBGene00015601	-0.139286659	10	4.86E+00	-0.059678558
WBGene00015602	-0.34994134	6	1.03E+01	-0.280480131
WBGene00015604	-0.374339962	4	5.41E+00	0.277983975
WBGene00044415	-0.108230965	2	8.60E-01	-0.069389261
WBGene00044416	-0.242356879	4	2.58E+00	-0.236532568
WBGene00015605	-0.213280416	4	2.19E+00	-0.070552102
WBGene00015593	-0.409009845	2	2.71E+00	-0.09530631
WBGene00005177	-1	18	3.21E+08	-1
WBGene00005293	-0.673260933	10	1.69E+03	-0.671127966
WBGene00022556	-0.430402242	3	4.66E+00	-0.312386628
WBGene00194714	-0.768173023	7	4.84E+02	-0.641932107
WBGene00022558	-1	7	2.15E+04	-0.712909889
WBGene00022559	-0.848802336	4	7.71E+01	-1
WBGene00022560	-0.766956858	4	4.87E+01	-0.635175645
WBGene00022557	0.094838261	6	3.85E-01	-0.275181242
WBGene00022561	0.047383408	4	5.09E-01	-0.100423111
WBGene00022555	-0.608270564	7	1.29E+02	-0.182395947
WBGene00022562	-0.391557231	6	1.40E+01	-0.262355532
WBGene00022563	0.020677768	1	4.96E-01	0.017058688
WBGene00022564	-0.003724761	4	6.78E-01	-0.220102086
WBGene00022554	0.258247241	16	2.49E-02	0.007160254
WBGene00022553	-0.508641021	7	5.65E+01	-0.394893472
WBGene00005844	-0.377362668	7	1.91E+01	-0.654403938
WBGene00003734	-0.542865736	55	3.92E+13	-1
WBGene00019037	-0.383539326	6	1.32E+01	-0.406555197
WBGene00019038	-0.312412395	9	2.27E+01	-0.153926102
WBGene00019036	-0.657685217	14	2.03E+04	-0.858157708
WBGene00019035	-0.744653667	3	2.05E+01	-0.6786661
WBGene00019034	-0.736969457	4	4.12E+01	-0.425726797

WBGene00019039	-1	9	1.80E+05	-1
WBGene00019040	-0.335560864	6	9.25E+00	-0.236344106
WBGene00019041	-0.054419057	4	9.01E-01	-0.133375594
WBGene00019042	-0.391497771	9	5.03E+01	-0.346102945
WBGene00019043	-0.696171915	21	4.75E+06	-0.263189311
WBGene00019044	-0.434887868	8	4.89E+01	-0.799163477
WBGene00019045	-0.006321576	1	5.36E-01	0
WBGene00018442	-0.577006156	6	5.50E+01	-1
WBGene00018441	-0.516990827	4	1.20E+01	-0.522704003
WBGene00018440	-0.279606957	4	3.18E+00	-0.11131816
WBGene00018439	-0.285100445	6	6.37E+00	-0.206510358
WBGene00018443	-0.325918654	5	5.96E+00	-0.147764406
WBGene00018438	-0.68010033	13	1.42E+04	-0.645046485
WBGene00018444	-0.971149286	5	3.93E+02	-1
WBGene00018445	-0.323296129	5	5.86E+00	-0.357033035
WBGene00018437	-0.408641413	7	2.47E+01	-0.587605534
WBGene00018436	-0.036690555	3	7.31E-01	-0.246915795
WBGene00269388	-0.424181625	5	1.13E+01	-0.821566367
WBGene00018435	-0.129308993	10	4.36E+00	-0.4883248
WBGene00018434	0.026599678	6	6.37E-01	0.084885155
WBGene00018433	-0.782007159	12	2.63E+04	-0.915241313
WBGene00018446	-0.280182824	13	6.09E+01	-0.163189948
WBGene00018447	-0.04272664	11	1.90E+00	0.490334224
WBGene00018432	-0.023180019	6	9.20E-01	-0.421976401
WBGene00019502	-0.536378422	7	7.11E+01	-0.422106267
WBGene00206518	0.010324884	4	6.27E-01	-0.02139984
WBGene00018105	-0.156511337	5	1.98E+00	-0.410665497
WBGene00206519	-0.547213108	10	4.25E+02	-0.495346932
WBGene00018106	-0.18853604	3	1.49E+00	-0.368547579
WBGene00018107	-0.973947852	3	6.03E+01	-0.614680313
WBGene00270293	-0.773394063	3	2.34E+01	-0.808390503
WBGene00018108	-0.792178931	4	5.61E+01	-0.986383746
WBGene00018104	-0.103736868	12	4.63E+00	-0.091684308
WBGene00018103	-0.010762624	4	7.05E-01	-0.011931468
WBGene00018102	-0.149182862	9	4.39E+00	-0.072645987
WBGene00018101	-0.03974938	19	4.52E+00	-0.05455198
WBGene00018100	-0.080362914	8	1.89E+00	-0.06417322
WBGene00015608	-0.054896432	13	2.82E+00	-0.048538178
WBGene00219271	-0.008057907	4	6.95E-01	-0.005432713
WBGene00015609	-0.301393484	11	4.06E+01	-0.238974595
WBGene00044417	-0.003575916	5	7.35E-01	0.098979045
WBGene00015613	0.015458461	6	6.92E-01	0.002498943
WBGene00015610	0.042050691	2	4.84E-01	-0.108408413
WBGene00015607	-0.340010629	9	3.00E+01	-0.770662308
WBGene00015606	-0.009223038	6	8.30E-01	0.072899719
WBGene00269389	-0.186318656	5	2.41E+00	-0.16564791
WBGene00015611	0.204524412	2	2.61E-01	0.062209194

WBGene00020362	-0.318090623	6	8.13E+00	0.150217258
WBGene00020363	-0.215148603	4	2.22E+00	-0.020398629
WBGene00020361	-0.238331916	7	6.03E+00	0.015170894
WBGene00020360	-0.15818706	16	2.22E+01	-0.258733098
WBGene00020359	-0.089566666	4	1.10E+00	-0.058633006
WBGene00020358	-0.005280509	5	7.43E-01	-0.100366968
WBGene00020364	-0.178352143	7	3.67E+00	-0.054708794
WBGene00020357	-0.039231388	14	2.55E+00	-0.026504357
WBGene00016884	-0.657146415	7	1.93E+02	-0.247915831
WBGene00016883	-0.014185213	6	8.61E-01	-0.077205864
WBGene00016885	-0.489880051	9	1.35E+02	-0.709148663
WBGene00016886	-2	7	4.82E+05	-2
WBGene00016882	-0.53683728	10	3.79E+02	-0.758593808
WBGene00016881	-0.956798509	2	2.19E+01	-1
WBGene00016880	-0.339603319	10	4.37E+01	-0.756930652
WBGene00194998	-0.540426583	3	7.83E+00	-0.333814472
WBGene00015830	-0.38960769	7	2.11E+01	-0.163946476
WBGene00044359	-0.04187122	1	5.95E-01	-0.004618963
WBGene00015829	0.003833687	6	7.54E-01	-0.323364532
WBGene00015828	-0.058292503	3	8.09E-01	-0.005892176
WBGene00015839	-0.284187318	6	6.33E+00	-0.426369137
WBGene00015827	-0.549517867	9	2.47E+02	-0.444718331
WBGene00015832	-0.002369133	2	5.74E-01	-0.047535864
WBGene00015833	0.141630128	3	3.16E-01	0
WBGene00015834	0.000766672	3	6.12E-01	0
WBGene00015835	0	2	5.69E-01	-0.001580191
WBGene00015836	-0.029783803	1	5.74E-01	-0.019529271
WBGene00015837	-0.045532651	9	1.55E+00	-0.106037628
WBGene00015838	-0.1189814	3	1.08E+00	-9.78E-05
WBGene00015825	-0.228952034	2	1.36E+00	0.122721518
WBGene00016720	-0.558800259	8	1.52E+02	-0.14063593
WBGene00016719	-0.067843265	6	1.28E+00	0
WBGene00016718	-0.000101231	4	6.65E-01	0
WBGene00016717	-0.233708875	11	1.82E+01	-0.127588108
WBGene00018663	0	1	5.26E-01	0
WBGene00018665	-0.093829422	2	8.14E-01	-0.093495968
WBGene00018667	-0.896605246	7	1.40E+03	-0.65847674
WBGene00018668	-0.085539202	5	1.25E+00	-0.170518498
WBGene00018661	-0.313348006	6	7.85E+00	0.117240742
WBGene00018660	-0.009508769	5	7.63E-01	-0.00528704
WBGene00018659	-0.1362059	5	1.74E+00	-0.147635685
WBGene00018669	-0.999382995	9	2.28E+04	-0.449207697
WBGene00018670	-0.004774683	5	7.40E-01	0.225142133
WBGene00018671	-0.450897843	13	6.24E+02	-0.395123647
WBGene00235352	-0.007828473	5	7.55E-01	0
WBGene00235354	-0.008572585	1	5.40E-01	-0.030571298
WBGene00022689	0	1	5.26E-01	-0.149297814

WBGene00022685	-0.668191026	7	2.12E+02	-0.867189968
WBGene00022690	-0.304696965	7	1.04E+01	-0.119316425
WBGene00022691	0.035990617	5	5.68E-01	-0.001983721
WBGene00022692	0.000126057	43	1.36E+01	-0.000138612
WBGene00021194	0	43	1.36E+01	0.000280752
WBGene00021193	-0.007805172	3	6.38E-01	0.028920494
WBGene00016556	-0.009682133	2	5.90E-01	0
WBGene00016555	0	5	7.18E-01	-0.000907206
WBGene00016554	0	3	6.15E-01	0.009200619
WBGene00016557	-0.015064456	3	6.60E-01	0.096282329
WBGene00019136	-5.61E-05	42	1.27E+01	0.005845668
WBGene00269394	-0.015961176	1	5.52E-01	-0.015644508
WBGene00000864	-0.059660824	5	1.06E+00	-0.152740042
WBGene00019138	-0.038368473	6	1.03E+00	0.203413018
WBGene00019139	-0.500259797	10	2.54E+02	-0.839209952
WBGene00019140	-0.066787271	2	7.34E-01	-0.112738778
WBGene00019141	-0.27867523	10	2.24E+01	-0.023169724
WBGene00019142	-0.016101691	3	6.63E-01	0.146560811
WBGene00206415	-0.105290873	3	1.01E+00	-0.305966771
WBGene00019132	-0.046162754	8	1.38E+00	-0.111703647
WBGene00015012	-0.937896745	9	1.23E+04	-0.364939354
WBGene00015014	-0.582607723	3	9.55E+00	-0.838273158
WBGene00015015	-0.028820896	4	7.81E-01	-0.136137738
WBGene00017209	-0.01289064	4	7.14E-01	-0.003953532
WBGene00017208	-0.135740312	2	9.55E-01	0.020149196
WBGene00017210	0.033149718	7	6.37E-01	0.005686755
WBGene00017211	-0.183927509	5	2.37E+00	-0.019571491
WBGene00304173	-0.48198215	3	5.95E+00	-0.674401935
WBGene00017207	-0.29144617	7	9.36E+00	-0.290501065
WBGene00219315	-0.01194386	2	5.95E-01	-0.012346132
WBGene00017212	-0.291881313	1	1.24E+00	-0.007050099
WBGene00017213	-0.704648678	12	9.80E+03	-0.671663317
WBGene00017214	-0.27168466	20	5.09E+02	-0.404853562
WBGene00020535	-0.169643921	3	1.37E+00	-0.421844188
WBGene00020536	-0.071391503	2	7.47E-01	-0.160785119
WBGene00020534	-0.559749072	6	4.84E+01	-0.64295723
WBGene00004149	-0.03691928	10	1.58E+00	-0.126425071
WBGene00269431	-0.392137648	2	2.54E+00	-0.13085163
WBGene00020537	-0.432861024	6	1.90E+01	-0.072121896
WBGene00020533	-0.219706748	10	1.17E+01	-0.267493712
WBGene00020532	-0.056314561	12	2.53E+00	-0.037960387
WBGene00020076	-0.004484886	2	5.79E-01	-0.008930774
WBGene00020077	-0.411053994	5	1.04E+01	-0.149178668
WBGene00020078	-0.194407677	3	1.54E+00	-0.25633765
WBGene00005408	0	4	6.64E-01	-0.085558227
WBGene00020080	0	9	9.79E-01	0.017351051
WBGene00020073	-0.318794377	7	1.17E+01	-0.558577903

WBGene00016548	-0.132865198	6	2.07E+00	-0.005195728
WBGene00016547	-0.54542964	5	2.48E+01	-0.070146472
WBGene00016546	-0.024866555	7	1.03E+00	-0.079898017
WBGene00016549	-0.057055632	7	1.34E+00	-0.086369447
WBGene00016545	-0.136958047	6	2.13E+00	-0.053071061
WBGene00016550	-0.224679826	5	3.09E+00	-0.178141017
WBGene00016551	-0.209421672	6	3.64E+00	-0.345775727
WBGene00016544	0.134344435	3	3.27E-01	0
WBGene00044360	-2	3	1.95E+03	-2
WBGene00016336	-0.237593344	4	2.51E+00	-0.016943373
WBGene00016337	-0.878068575	8	2.85E+03	-1
WBGene00219322	-0.056894415	1	6.22E-01	-0.230458519
WBGene00016339	0	1	5.26E-01	0
WBGene00016335	-0.111921414	8	2.53E+00	-0.143365266
WBGene00016340	0.050066191	8	5.72E-01	0.005115616
WBGene00016341	0.174612008	4	2.50E-01	0.270980773
WBGene00016342	0.039272302	3	5.11E-01	0.04559676
WBGene00016334	0.000949212	1	5.25E-01	0.095390804
WBGene00021985	0.029601249	16	1.04E+00	0.001485837
WBGene00021984	0.017150341	8	7.74E-01	-0.03281449
WBGene00021986	0.532144188	31	7.35E-07	0.064953389
WBGene00018783	-0.372572209	32	5.19E+05	-0.482891453
WBGene00018784	0.007283425	2	5.53E-01	0
WBGene00018785	0.056603574	11	5.84E-01	-0.00922153
WBGene00018782	0.101058925	16	3.24E-01	0.202546737
WBGene00018781	-0.062243645	11	2.39E+00	-0.033175458
WBGene00019586	-0.304730497	29	2.28E+04	-0.16864903
WBGene00019587	-0.090368365	15	6.28E+00	-0.093849813
WBGene00019588	-2	11	4.07E+08	-2
WBGene00271744	-0.740797079	9	1.69E+03	-0.508717338
WBGene00019589	-0.179573975	10	7.56E+00	-0.232969693
WBGene00044361	-0.166011982	4	1.68E+00	0.480943693
WBGene00019592	-0.168134444	8	4.23E+00	0.273746279
WBGene00019593	0.416653227	12	6.11E-03	0.655755569
WBGene00235164	0.306720478	6	8.05E-02	-0.321096557
WBGene00019590	0.092860487	5	3.93E-01	0.160587928
WBGene00019591	-0.062663429	11	2.40E+00	-0.350887073
WBGene00015111	-0.242560145	6	4.65E+00	-0.672716542
WBGene00015112	-0.767713211	6	2.25E+02	-0.16285988
WBGene00015113	-0.074445928	5	1.16E+00	0.167376383
WBGene00015110	0	3	6.15E-01	-0.00958482
WBGene00015114	0.051492701	5	5.14E-01	-0.05749554
WBGene00015108	0	2	5.69E-01	-0.128158002
WBGene00022869	-0.009670138	2	5.90E-01	0
WBGene00022870	-0.225088234	8	7.14E+00	-0.162313189
WBGene00022873	-0.158405002	4	1.61E+00	0.023317661
WBGene00022868	0.072138293	3	4.38E-01	0.015467725

WBGene00022871	-0.321733127	2	1.94E+00	-0.428323803
WBGene00022867	-0.793519302	7	5.98E+02	-0.113086258
WBGene00206413	-0.788995523	6	2.63E+02	-0.338327128
WBGene00022872	-0.003419677	5	7.34E-01	-0.003207005
WBGene00022866	0	10	1.06E+00	-0.150495852
WBGene00018385	0	5	7.18E-01	-0.06885817
WBGene00018384	-0.141086347	5	1.79E+00	0.193107744
WBGene00018386	0.076722892	14	4.73E-01	-0.152363381
WBGene00018383	-0.000494747	1	5.27E-01	0.007189825
WBGene00018381	-0.132632889	7	2.51E+00	-0.076137761
WBGene00018387	0.027689895	8	7.02E-01	-0.250068232
WBGene00018380	-0.154085294	3	1.27E+00	-0.087605745
WBGene00018379	-0.426730712	6	1.81E+01	-0.820051822
WBGene00018378	-0.657032965	5	5.12E+01	-1
WBGene00018388	-0.261899965	14	6.48E+01	-0.319843464
WBGene00018389	-0.441610071	5	1.26E+01	-0.178716067
WBGene00017520	-0.06132309	7	1.39E+00	-0.278137817
WBGene00017519	0.016057322	4	6.07E-01	-0.035562847
WBGene00017518	-0.182412259	6	2.98E+00	-0.139837162
WBGene00017517	-0.211556458	2	1.28E+00	-0.073199194
WBGene00017521	-0.022395298	1	5.62E-01	-0.019529271
WBGene00017522	-0.00959788	1	5.41E-01	-0.012529149
WBGene00017523	-0.150699738	3	1.25E+00	-0.268460599
WBGene00017524	-0.17126226	3	1.38E+00	-0.251944801
WBGene00017525	-0.894994706	8	3.33E+03	-1
WBGene00017526	-0.099430061	5	1.37E+00	-0.118402093
WBGene00017527	-0.097835939	4	1.15E+00	-0.186385463
WBGene00017528	-0.004232939	2	5.78E-01	-0.012003982
WBGene00017516	-0.421916295	1	1.81E+00	0.015618741
WBGene00018353	-0.239129786	15	6.22E+01	-0.193713425
WBGene00044672	-0.070856182	7	1.51E+00	0.379658793
WBGene00018354	-0.226032249	7	5.44E+00	0.256646809
WBGene00044362	-0.329414099	5	6.09E+00	-0.712542187
WBGene00018352	-0.04339436	5	9.51E-01	-0.148645819
WBGene00018351	-0.614536335	15	2.03E+04	-0.334890973
WBGene00018355	-0.224077467	11	1.63E+01	-0.161915721
WBGene00006882	0.146402658	30	7.34E-02	0.116398518
WBGene00004129	-0.033381122	7	1.10E+00	0.235826065
WBGene00006647	0.062509036	21	6.77E-01	0.040432937
WBGene00018769	0.008054081	11	1.04E+00	0.277275515
WBGene00302998	0.013088165	6	7.04E-01	-0.013277243
WBGene00018768	0.334741172	4	1.02E-01	-0.031476779
WBGene00018767	0.014153517	5	6.55E-01	-0.150178543
WBGene00304220	0	2	5.69E-01	0.166106138
WBGene00018766	0.307185647	21	4.19E-03	0.188566689
WBGene00019130	-0.001567614	12	1.26E+00	-0.024205707
WBGene00018223	-1	8	5.52E+05	-2

WBGene00019341	-0.393451475	20	5.74E+03	-0.570200653
WBGene00019340	0.000126155	3	6.14E-01	-0.002996259
WBGene00019342	-0.001289822	5	7.24E-01	-0.004136938
WBGene00019339	-0.003543856	6	7.96E-01	0
WBGene00019338	-0.44954312	19	1.08E+04	-0.417351147
WBGene00019337	-0.008957641	30	6.45E+00	0.22980633
WBGene00019335	-0.282258227	12	4.50E+01	-0.066915863
WBGene00019343	-0.015425213	33	1.02E+01	-0.419958337
WBGene00017280	0.008390456	18	1.69E+00	0.027396695
WBGene00005586	-0.015682023	6	8.71E-01	-0.018666938
WBGene00005548	-0.018443543	3	6.70E-01	-0.017270984
WBGene00045457	-0.298521596	5	4.99E+00	-0.195959648
WBGene00005551	-0.458669618	10	1.61E+02	-0.1542019
WBGene00018020	0.050295368	42	1.73E+00	0.069693
WBGene00018019	-1	12	1.66E+07	-0.973215456
WBGene00005589	-0.169724617	7	3.42E+00	-0.204657309
WBGene00005550	-0.260344969	8	9.86E+00	-0.301127065
WBGene00194711	-0.023621755	5	8.37E-01	-0.030956681
WBGene00017059	-0.015652611	2	6.04E-01	-0.174709597
WBGene00017058	-0.639919602	3	1.25E+01	-0.427579151
WBGene00017057	-0.070575413	5	1.13E+00	0
WBGene00017056	-0.002315655	5	7.29E-01	0.000685877
WBGene00044301	0	5	7.18E-01	-0.027014099
WBGene00005583	0	2	5.69E-01	-0.00469887
WBGene00005549	-0.002073969	7	8.53E-01	-0.087185221
WBGene00017055	-0.075276658	6	1.35E+00	-0.192560463
WBGene00044363	0.006003446	2	5.56E-01	0.009508405
WBGene00017708	0	2	5.69E-01	0.047293826
WBGene00017707	-0.016625873	5	8.00E-01	-0.015867725
WBGene00017706	0.234417913	2	2.33E-01	-0.172390804
WBGene00017709	-0.385431092	8	3.11E+01	0.403560132
WBGene00017710	-0.209826889	6	3.65E+00	-0.402795552
WBGene00017711	-0.004305305	6	8.01E-01	0.118701119
WBGene00017705	0.040080666	3	5.09E-01	-0.093855342
WBGene00005559	-0.064836361	3	8.34E-01	-0.094251386
WBGene00001546	-0.47131214	24	1.98E+05	-0.445800139
WBGene00017704	0	1	5.26E-01	0.006714087
WBGene00005569	-0.040886081	3	7.45E-01	0.053120185
WBGene00017713	-0.106432407	7	2.02E+00	-0.111007819
WBGene00017703	-0.512338672	18	2.09E+04	-0.401047022
WBGene00017712	-0.862813845	7	1.06E+03	-0.371336771
WBGene00018021	-0.365298393	13	1.94E+02	-0.220518442
WBGene00018022	0.048077941	5	5.25E-01	0.144370017
WBGene00006318	-0.19701982	6	3.32E+00	-0.075503536
WBGene00044364	-0.119180496	2	8.96E-01	-0.654607562
WBGene00044365	-0.75089246	2	9.98E+00	-0.273074493
WBGene00044366	1	2	7.30E-03	1

WBGene00018023	0.215478901	5	1.77E-01	0.211844225
WBGene00005574	0.364813076	4	8.61E-02	0.706999565
WBGene00005573	0.119052747	6	3.22E-01	0.053492799
WBGene00005572	0.137809439	4	3.07E-01	-0.212243026
WBGene00005345	0.070624524	4	4.47E-01	0.085361754
WBGene00021654	0.106457533	12	3.18E-01	-0.111888676
WBGene00020227	0.245391984	11	6.24E-02	0.148111327
WBGene00020228	0.067168219	3	4.48E-01	-0.023399632
WBGene00020229	0.066265347	5	4.67E-01	0.252992804
WBGene00020230	0.16276685	19	9.65E-02	0.211830883
WBGene00303077	0.532780011	1	1.11E-01	-0.073517409
WBGene00020231	0.704215385	22	6.32E-07	0.505267437
WBGene00044367	2	7	3.62E-08	2
WBGene00020232	-0.005108138	2	5.80E-01	-0.01540917
WBGene00020233	-0.287197672	10	2.46E+01	-0.255634989
WBGene00017915	0.001351044	1	5.24E-01	-0.015644508
WBGene00017914	0.003421801	4	6.52E-01	-0.026779905
WBGene00017916	-0.000713283	2	5.70E-01	0.005976868
WBGene00017913	0.011721324	2	5.44E-01	-0.006466285
WBGene00017918	-0.286216015	10	2.43E+01	0.067871942
WBGene00017912	-0.301675362	9	2.04E+01	-0.139712437
WBGene00017911	-0.854302165	6	4.27E+02	-0.056740886
WBGene00017249	-0.242562777	6	4.65E+00	0.229813418
WBGene00017250	0.34156969	3	1.23E-01	0.447551876
WBGene00017251	-0.245779882	5	3.54E+00	-0.424666511
WBGene00017252	-0.215908846	6	3.82E+00	-0.754398439
WBGene00017253	-0.19261267	9	6.80E+00	-0.35626164
WBGene00017254	-0.134252739	7	2.55E+00	-0.770402204
WBGene00017248	-0.494786244	4	1.06E+01	-0.626158149
WBGene00017247	-0.072522197	4	9.97E-01	-0.172037141
WBGene00017246	0.057384638	5	4.94E-01	0.474126354
WBGene00017255	0.524188743	18	1.49E-04	0.096652484
WBGene00017245	0.038154795	11	7.27E-01	0.142141208
WBGene00003709	-0.063665445	22	1.06E+01	0.188995887
WBGene00019691	-0.010695272	2	5.93E-01	-0.009957968
WBGene00019683	-0.101122664	4	1.17E+00	-0.042842053
WBGene00019690	-0.001499293	9	9.93E-01	0.112371524
WBGene00001507	-0.051815433	8	1.46E+00	0.031230553
WBGene00044368	-0.045841243	1	6.02E-01	0.025776819
WBGene00019684	-0.084091887	2	7.84E-01	-0.306282721
WBGene00019689	-0.140068247	3	1.19E+00	-1
WBGene00019685	-0.369465476	5	7.90E+00	-0.404479248
WBGene00019688	0.005221728	5	6.94E-01	-0.023625063
WBGene00019686	0.417437642	8	1.97E-02	0.663982696
WBGene00019687	0.419228467	9	1.44E-02	-0.097973054
WBGene00022441	-0.06813665	2	7.38E-01	-0.003930354
WBGene00022443	0.081767227	3	4.18E-01	-0.574618663

WBGene00022444	-0.310298446	4	3.78E+00	-0.321347964
WBGene00004210	-0.048853401	30	2.04E+01	-0.108134757
WBGene00022442	0.390332088	6	4.34E-02	0.276956148
WBGene00022445	0.024942593	1	4.89E-01	-0.093793729
WBGene00022440	0	2	5.69E-01	0.003828529
WBGene00022439	-0.234278059	9	1.03E+01	0.004345787
WBGene00022446	-0.087596678	2	7.95E-01	0.085389573
WBGene00022438	0	3	6.15E-01	0
WBGene00022447	0.021201306	13	9.99E-01	0.021897997
WBGene00022448	0	5	7.18E-01	0.020630911
WBGene00005020	0	7	8.38E-01	0.00560252
WBGene00022450	0	3	6.15E-01	0
WBGene00006710	-0.008759126	18	2.30E+00	0.024171618
WBGene00022453	0.010424228	9	8.81E-01	0.003031324
WBGene00022452	0.038081794	9	6.67E-01	0.123386679
WBGene00022712	-0.077013953	18	7.92E+00	-0.137175461
WBGene00022713	-0.094106468	3	9.57E-01	-0.04075142
WBGene00086560	-0.152138752	1	8.21E-01	-0.493079764
WBGene00022714	-0.867651661	16	2.36E+06	-1
WBGene00022711	-0.170715585	16	2.73E+01	-0.093446671
WBGene00044369	-0.134552469	6	2.10E+00	0.143978071
WBGene00022715	-0.145309766	9	4.22E+00	-0.004734409
WBGene00022716	0.002661901	7	8.20E-01	-0.238478021
WBGene00020431	-0.319361592	8	1.69E+01	-0.223817603
WBGene00020430	-0.151257432	10	5.55E+00	-0.158780377
WBGene00005826	-0.25963127	10	1.82E+01	-0.341812488
WBGene00077759	0.00938631	6	7.24E-01	0.019872147
WBGene00020432	-0.042551362	9	1.50E+00	-0.145356633
WBGene00020428	-0.042125847	4	8.41E-01	-0.207695814
WBGene00005807	-0.072999303	7	1.53E+00	-0.168197366
WBGene00003678	0.389299718	34	2.28E-05	0.390010779
WBGene00019513	0.311277472	18	7.03E-03	0.382825536
WBGene00019512	0.367486798	11	1.47E-02	0.19094213
WBGene00019511	0.137566387	11	2.24E-01	-0.117122285
WBGene00016576	-0.093111352	8	2.13E+00	0.37642306
WBGene00016575	-0.751585419	11	8.43E+03	-0.470581625
WBGene00016574	-0.090702922	12	3.92E+00	-0.080409481
WBGene00016573	-0.085961318	8	1.99E+00	0.437587366
WBGene00016578	0	4	6.64E-01	-0.061629401
WBGene00044370	-0.147127962	2	9.97E-01	-0.043720558
WBGene00016572	-0.183299376	3	1.46E+00	-0.180679252
WBGene00016571	-0.186473374	9	6.39E+00	-0.299559304
WBGene00016577	-0.083645112	9	2.27E+00	-0.045010754
WBGene00015198	-0.066869155	7	1.46E+00	-0.090854511
WBGene00015197	-0.352996748	9	3.42E+01	-0.473404681
WBGene00206372	-0.152043868	4	1.56E+00	-0.157174881
WBGene00015196	0.107422008	5	3.57E-01	0.05096568

WBGene00015199	-0.83701976	15	6.28E+05	-0.92900217
WBGene00005541	0.006328441	3	5.97E-01	0.208942597
WBGene00005542	-0.465923458	9	1.06E+02	-0.698935993
WBGene00005540	0.013492655	12	1.04E+00	-0.170097426
WBGene00005543	-0.067561977	7	1.47E+00	0.201383679
WBGene00015200	0.426798464	9	1.33E-02	0.162903453
WBGene00002997	0.244034448	14	4.16E-02	0.661886686
WBGene00021293	2	3	2.00E-04	1
WBGene00021294	0.050896819	7	5.50E-01	0.092914424
WBGene00021295	0.001956883	14	1.40E+00	0.003242878
WBGene00021292	0.063238802	22	6.81E-01	0.150358614
WBGene00005178	-0.073220838	12	3.14E+00	-0.076605899
WBGene00005179	-0.17574909	12	1.16E+01	-0.207345057
WBGene00005180	-0.012320502	5	7.77E-01	-0.008911829
WBGene00194985	0	2	5.69E-01	-0.045774875
WBGene00005181	-0.14021512	5	1.78E+00	-0.137928395
WBGene00021291	-0.045157443	12	2.20E+00	-0.030519744
WBGene00021290	-1	40	2.45E+20	-1
WBGene00021296	0.035013794	9	6.88E-01	-0.075052736
WBGene00021289	-0.245783058	5	3.54E+00	-0.145215319
WBGene00021288	-0.218867458	16	5.98E+01	-0.404978376
WBGene00020409	-0.000366482	4	6.66E-01	-0.000952891
WBGene00020408	0.255717672	26	5.75E-03	-0.092610682
WBGene00005292	-0.428050569	3	4.61E+00	-0.667507543
WBGene00002102	-0.578227679	6	5.55E+01	-0.430709504
WBGene00002114	-0.334677413	6	9.19E+00	-0.201698897
WBGene00020407	-0.771062322	9	2.30E+03	-0.454195911
WBGene00005566	-0.000667335	7	8.43E-01	-0.087512096
WBGene00005554	-0.054197461	7	1.31E+00	-0.044388515
WBGene00005555	-0.18410954	6	3.02E+00	-0.076205457
WBGene00077522	-0.179955117	2	1.13E+00	-0.239614735
WBGene00020410	-0.091516597	4	1.11E+00	-0.034150319
WBGene00020406	-0.30559034	12	6.06E+01	-0.148545324
WBGene00044889	-0.202887071	2	1.23E+00	-0.003532205
WBGene00005544	-0.668307856	7	2.12E+02	-0.743727408
WBGene00005545	-0.070220421	3	8.55E-01	0
WBGene00005546	-0.001686903	6	7.85E-01	-0.000501863
WBGene00021297	-0.199921812	7	4.39E+00	-0.682380105
WBGene00045303	-0.062311711	4	9.42E-01	-0.138217548
WBGene00005552	-0.371701898	9	4.12E+01	-0.495259805
WBGene00021298	-0.199309742	7	4.36E+00	-0.271136288
WBGene00021299	-0.105967374	5	1.43E+00	-0.46431927
WBGene00005590	0.072613399	6	4.54E-01	-0.207194251
WBGene00045304	0.053840611	4	4.91E-01	-0.050138227
WBGene00021300	0	1	5.26E-01	-0.007132178
WBGene00001541	-0.297666756	27	9.44E+03	-0.250946357
WBGene00005563	0	4	6.64E-01	-0.059439841

WBGene00005560	-0.082263754	2	7.79E-01	-0.278381341
WBGene00005565	-0.575516557	7	9.83E+01	-0.405279581
WBGene00005562	-0.167610439	3	1.35E+00	0.182637427
WBGene00044371	-0.310254734	3	2.65E+00	0.019168908
WBGene00044372	-0.196624576	1	9.35E-01	-0.100013853
WBGene00022570	-0.60706622	3	1.07E+01	-0.559320582
WBGene00022569	-0.136742031	5	1.74E+00	-0.03269488
WBGene00022568	-0.15743356	3	1.29E+00	-0.232602815
WBGene00022567	0.009357547	4	6.30E-01	-0.159479949
WBGene00022566	-0.585068864	6	5.84E+01	-0.439231909
WBGene00022565	-0.005903375	4	6.87E-01	0.007329972
WBGene00194717	-0.141722021	4	1.47E+00	-0.160425685
WBGene00022572	-0.274052609	4	3.08E+00	-0.12889674
WBGene00022571	-0.01499802	2	6.02E-01	-0.00682893
WBGene00022573	0.002428556	5	7.06E-01	-0.153887538
WBGene00022574	-0.024375102	4	7.61E-01	-0.219815593
WBGene00022575	0	3	6.15E-01	-0.076227441
WBGene00005501	-0.07585479	5	1.17E+00	-0.070778695
WBGene00015914	0	9	9.79E-01	0.048398219
WBGene00023479	0	2	5.69E-01	0
WBGene00044373	0	4	6.64E-01	-0.152359205
WBGene00015911	-0.610187735	10	8.47E+02	-1
WBGene00044374	-0.222647623	1	1.01E+00	-0.266908133
WBGene00015913	-0.008376908	2	5.87E-01	-0.005126652
WBGene00015912	0.012930837	9	8.59E-01	-0.092948147
WBGene00015910	-0.200971561	4	2.05E+00	-0.105086793
WBGene00015909	-0.471997856	9	1.13E+02	-0.569928825
WBGene00001544	-0.026024387	14	2.10E+00	-0.097819187
WBGene00017180	0.005700588	2	5.57E-01	0.013279784
WBGene00195073	0.239274095	5	1.52E-01	0.529990771
WBGene00017181	-0.143653819	10	5.10E+00	-0.097231469
WBGene00017182	-0.323640023	5	5.87E+00	-0.756531701
WBGene00017179	-0.29427063	16	2.05E+02	-0.210387604
WBGene00018196	-0.736976931	28	1.91E+09	-0.545842231
WBGene00017183	-0.606204695	8	2.35E+02	-0.329149508
WBGene00005575	-0.515396425	7	5.98E+01	-0.358996409
WBGene00044375	-0.022585805	1	5.62E-01	0
WBGene00018200	-0.134405195	5	1.72E+00	-0.042988635
WBGene00018195	-0.173913208	6	2.80E+00	-0.007715356
WBGene00018201	-0.454711716	5	1.37E+01	-0.555734066
WBGene00269387	-0.800799444	5	1.30E+02	-0.574946234
WBGene00018198	-0.051481886	3	7.83E-01	0.276158857
WBGene00021590	0.133328236	10	2.45E-01	-0.076511913
WBGene00021589	-0.119038568	14	8.13E+00	0.025847933
WBGene00021591	0.019491381	4	5.95E-01	0.130231085
WBGene00017454	-0.305834504	5	5.23E+00	-0.414614729
WBGene00077751	-0.607755286	9	4.44E+02	-0.69782824

WBGene00206522	-0.706831246	6	1.44E+02	-0.39887035
WBGene00017455	-0.327639083	4	4.16E+00	-0.447742959
WBGene00017453	-0.212791867	4	2.19E+00	-0.276132421
WBGene00017459	-0.393472704	5	9.24E+00	-0.381156765
WBGene00023427	-0.530204771	8	1.17E+02	-0.501733054
WBGene00017461	-1	7	3.72E+03	-1
WBGene00017460	-0.094208278	8	2.15E+00	-0.534906509
WBGene00017462	-0.071869382	3	8.62E-01	-0.169100156
WBGene00017456	-0.405876655	9	5.82E+01	-0.286459417
WBGene00017452	-0.409402879	31	1.03E+06	-0.370491096
WBGene00017451	-0.73977269	5	8.75E+01	-1
WBGene00017450	-0.427255127	7	2.88E+01	-0.105463006
WBGene00021728	-0.012102825	13	1.57E+00	-0.031152711
WBGene00021729	0.214876682	4	1.99E-01	-0.246042894
WBGene00021730	-0.473315151	7	4.22E+01	-0.606058804
WBGene00021727	-0.102112611	7	1.95E+00	-0.216645282
WBGene00021726	0.038249506	4	5.36E-01	0.0983603
WBGene00021725	-0.540343459	7	7.35E+01	0.113120645
WBGene00021724	-0.428165219	6	1.83E+01	-0.297550631
WBGene00020290	-0.496419497	14	1.95E+03	-0.507509906
WBGene00020291	-0.077839753	5	1.19E+00	-0.092419718
WBGene00206385	-0.53313652	1	2.50E+00	-0.385317532
WBGene00020292	-0.383061024	12	1.63E+02	-0.213285865
WBGene00020293	-0.247225765	12	2.88E+01	-0.367745101
WBGene00017554	-0.582811552	16	2.27E+04	-0.373278119
WBGene00017555	-1	25	1.66E+11	-1
WBGene00017553	-0.309015807	14	1.28E+02	-0.427866111
WBGene00017552	-0.245598885	12	2.82E+01	-0.518205181
WBGene00017556	-0.199617395	17	5.64E+01	-0.339199886
WBGene00017551	0	2	5.69E-01	0.087802566
WBGene00017550	-0.071835616	12	3.08E+00	-0.21983638
WBGene00017557	0.351369841	20	2.12E-03	0.504136433
WBGene00015855	-0.019445482	8	1.08E+00	0.092574915
WBGene00015841	-0.090242321	31	7.86E+01	-0.065144569
WBGene00015854	0.744235289	13	5.23E-05	0.538686976
WBGene00195072	0.766332574	5	4.95E-03	0.893943537
WBGene00015842	-0.043772621	3	7.55E-01	0.199981794
WBGene00015843	0.078139352	4	4.29E-01	0.015941272
WBGene00015853	-0.031067584	7	1.08E+00	0.006705503
WBGene00195070	0.015094045	5	6.51E-01	0.301839509
WBGene00195071	-0.137792767	5	1.76E+00	0.256457093
WBGene00015852	-0.131649631	6	2.05E+00	0
WBGene00015851	0.040834475	5	5.51E-01	0
WBGene00015850	0	3	6.15E-01	0
WBGene00015849	0	4	6.64E-01	0
WBGene00015856	0.030897916	3	5.31E-01	-0.237985555
WBGene00015845	-0.222647623	2	1.33E+00	-0.011338834

WBGene00015846	-0.180674037	2	1.13E+00	-0.466469528
WBGene00015847	-0.759162119	3	2.19E+01	-0.059536125
WBGene00015848	-0.465152402	3	5.49E+00	-0.195426905
WBGene00303369	0.254285863	2	2.16E-01	-0.207638406
WBGene00044377	0	2	5.69E-01	-0.00529865
WBGene00044376	0	1	5.26E-01	-0.149297814
WBGene00021718	-0.007063472	1	5.37E-01	0
WBGene00021717	-0.072668847	6	1.33E+00	-0.244824188
WBGene00021719	-0.462844749	7	3.87E+01	-0.408110319
WBGene00021720	0.202575369	5	1.93E-01	-0.037080865
WBGene00004896	0.048066931	14	7.17E-01	-0.016836668
WBGene00021716	-0.389529033	5	9.00E+00	0.189761346
WBGene00021721	0.007016794	35	5.81E+00	0.047632639
WBGene00000647	0.272217684	8	7.46E-02	0.048003407
WBGene00021715	0.210314619	6	1.64E-01	0.174696529
WBGene00021714	0.032603879	8	6.72E-01	0.100182363
WBGene00303368	0	5	7.18E-01	0.082920026
WBGene00021722	0.088597335	5	4.04E-01	-0.04396782
WBGene00044378	-0.101314514	9	2.71E+00	0.004339655
WBGene00021118	2	24	2.16E-16	1
WBGene00021117	3	5	2.96E-10	2
WBGene00000648	0.509504493	12	1.87E-03	0.457756534
WBGene00271830	0.027264215	7	6.69E-01	0.031669194
WBGene00021116	0.306554741	15	1.38E-02	0.568281912
WBGene00000162	0.017879174	18	1.42E+00	0.030222686
WBGene00021148	0.326830655	12	1.92E-02	0.128521305
WBGene00021149	0.355849459	8	3.46E-02	0.57654236
WBGene00021146	0.310712485	38	1.30E-04	0.791882347
WBGene00021134	-0.056098952	4	9.09E-01	0.691195535
WBGene00021135	-0.393774957	4	6.03E+00	0.707175714
WBGene00021136	-0.085220009	3	9.18E-01	0.037963979
WBGene00021137	-0.048796418	2	6.85E-01	0.057846906
WBGene00021138	1	3	1.82E-03	1
WBGene00021139	0.382647826	4	7.79E-02	0.526082906
WBGene00021145	0.208377372	4	2.07E-01	0.256246282
WBGene00021144	-0.541757414	7	7.43E+01	-0.40209085
WBGene00021143	-0.551570777	6	4.56E+01	-0.485189259
WBGene00021142	-0.483497718	7	4.59E+01	-2
WBGene00021141	-0.004462482	3	6.28E-01	-0.002731305
WBGene00005281	-0.117016324	5	1.53E+00	-0.054237013
WBGene00005282	-0.253384628	8	9.25E+00	-0.198749482
WBGene00005280	0	2	5.69E-01	0
WBGene00005509	0	2	5.69E-01	0
WBGene00303367	0	1	5.26E-01	0
WBGene00303366	0.060063168	2	4.52E-01	-0.224934229
WBGene00021711	-0.405174682	25	6.51E+04	-0.526452459
WBGene00021713	-0.675155435	19	7.87E+05	-0.502276321

WBGene00018235	-0.335076882	21	2.62E+03	-0.28373836
WBGene00018234	-0.072366088	3	8.64E-01	0.062459314
WBGene00019799	-0.212933572	9	8.34E+00	-0.153802351
WBGene00019796	-0.465618978	16	3.35E+03	-0.388740644
WBGene00019795	-0.518422796	9	1.81E+02	-0.272113939
WBGene00019794	-0.192858005	9	6.82E+00	-0.104728039
WBGene00019797	-0.172419817	6	2.77E+00	-0.298416521
WBGene00303365	-0.469679138	4	9.22E+00	0.382602783
WBGene00019793	-0.058993109	17	5.02E+00	-0.329446756
WBGene00019798	0.002863835	3	6.06E-01	-0.004680229
WBGene00044314	0.053646825	3	4.77E-01	-0.0862259
WBGene00017590	-0.332806594	19	1.18E+03	-0.242593359
WBGene00017587	-0.907791985	12	1.30E+05	-0.85434035
WBGene00017586	-0.035691277	6	1.01E+00	-0.015482582
WBGene00194713	0.084673294	3	4.13E-01	0.148203378
WBGene00017588	-0.037859182	3	7.35E-01	-0.114714574
WBGene00017585	0	1	5.26E-01	0
WBGene00005988	-0.291244884	4	3.39E+00	-0.430571895
WBGene00005989	-0.03458525	3	7.23E-01	-0.183380409
WBGene00004750	-0.505367838	9	1.58E+02	-0.186641643
WBGene00017584	-0.197850499	3	1.56E+00	-0.005659837
WBGene00017589	-0.078709974	11	2.90E+00	0.004047686
WBGene00017583	0.394288479	9	1.85E-02	0.284291863
WBGene00044379	0.325899713	6	6.99E-02	-0.467498445
WBGene00005992	-1	8	2.40E+04	-1
WBGene00005993	-0.034382369	2	6.49E-01	-0.017595684
WBGene00005995	-0.045550366	2	6.77E-01	-0.002083118
WBGene00005996	-0.11190038	2	8.72E-01	-0.031136342
WBGene00005999	-0.158766896	8	3.88E+00	-0.560294011
WBGene00006001	-0.247189831	2	1.46E+00	-0.223674918
WBGene00016711	-0.20511712	7	4.58E+00	-0.35359649
WBGene00005319	-0.065703516	4	9.60E-01	-0.27145226
WBGene00005318	0.082431175	4	4.19E-01	0.072412394
WBGene00016710	-0.171995635	8	4.39E+00	-0.118407916
WBGene00016709	-0.367963941	11	8.94E+01	-0.403844859
WBGene00016708	-0.001152062	1	5.28E-01	-0.037316816
WBGene00016707	-0.101505072	5	1.39E+00	-0.071344012
WBGene00016712	-0.445007444	9	8.62E+01	-0.250549071
WBGene00017406	-0.473809447	9	1.15E+02	-0.923698003
WBGene00017405	-0.200454872	4	2.04E+00	-0.727817151
WBGene00017407	0.013132886	2	5.41E-01	-0.203072385
WBGene00017403	-0.382281165	9	4.59E+01	-0.389961312
WBGene00017402	0.244330063	3	1.95E-01	-0.467363951
WBGene00044811	-0.119858398	11	4.73E+00	-0.488215696
WBGene00086558	-0.287806914	8	1.27E+01	-0.425089293
WBGene00044693	-1	9	7.05E+05	-1
WBGene00044694	-0.729596085	8	7.30E+02	-0.760912404

WBGene00044692	-0.173911807	6	2.80E+00	0.041142803
WBGene00017408	-0.255251074	4	2.77E+00	-0.057589137
WBGene00020774	-0.173445391	9	5.61E+00	-0.113667151
WBGene00006002	-0.216092127	3	1.70E+00	-0.116843372
WBGene00044380	-0.264634146	5	4.00E+00	0.041279058
WBGene00020775	-0.864146237	10	1.37E+04	-0.616660272
WBGene00006003	0.02710938	3	5.41E-01	-0.048325032
WBGene00020777	-0.335299039	28	3.68E+04	-0.284497069
WBGene00020773	-0.032501136	5	8.86E-01	-0.002192111
WBGene00020778	-0.391461679	5	9.12E+00	-0.294915918
WBGene00020772	0	4	6.64E-01	-0.004424917
WBGene00020771	-0.480575027	10	2.05E+02	-0.3355347
WBGene00195077	-0.237691269	6	4.49E+00	-0.682285707
WBGene00021173	0	1	5.26E-01	-0.284584147
WBGene00021172	-0.192178859	3	1.52E+00	-0.31912275
WBGene00021174	-0.226369428	8	7.22E+00	-0.480710952
WBGene00021171	-0.53503832	18	3.16E+04	-0.353694408
WBGene00002115	-0.98615073	4	1.66E+02	-0.466687815
WBGene00018805	-0.758792666	7	4.48E+02	0.010736777
WBGene00018806	-0.144465453	5	1.83E+00	0.11237802
WBGene00018804	-0.029211058	8	1.18E+00	-0.111565567
WBGene00018803	0.12298819	6	3.13E-01	0.045885436
WBGene00018808	-0.077967955	6	1.38E+00	-0.072914627
WBGene00004821	-0.375456393	7	1.88E+01	-0.343715373
WBGene00018809	-0.299169102	6	7.07E+00	-0.253347973
WBGene00018810	-0.080079421	10	2.54E+00	-0.14404055
WBGene00015873	-0.065739527	6	1.26E+00	-0.067562906
WBGene00015872	-0.009983399	3	6.44E-01	-0.011892112
WBGene00015875	-0.440788484	8	5.16E+01	-0.053592978
WBGene00015871	-0.049883008	7	1.27E+00	0.075811978
WBGene00015870	-0.10938825	5	1.46E+00	-0.089870569
WBGene00003662	-0.176566942	7	3.62E+00	-0.100829286
WBGene00015869	-0.004982825	5	7.41E-01	0
WBGene00016775	-0.061052603	3	8.19E-01	-0.021975348
WBGene00016776	-0.011118977	10	1.19E+00	-0.227760717
WBGene00016777	-0.010108676	4	7.03E-01	-0.046957101
WBGene00016773	-0.18012376	7	3.72E+00	-0.037293517
WBGene00016778	-0.751998874	21	1.51E+07	-0.940476732
WBGene00016779	-0.34874491	3	3.17E+00	-0.036417595
WBGene00005456	-0.01370613	3	6.56E-01	-0.001811994
WBGene00016772	-0.940415203	11	7.90E+04	-0.718063974
WBGene00018752	-0.095208359	8	2.17E+00	-0.438275646
WBGene00018751	-0.40214568	3	4.08E+00	-0.501707009
WBGene00018750	-0.075446203	8	1.81E+00	0.274806622
WBGene00018748	-0.317265711	9	2.38E+01	-0.271747313
WBGene00018747	-0.284146747	6	6.33E+00	-0.322980174
WBGene00018754	-0.262690085	7	7.38E+00	-0.266061022

WBGene00018746	-0.451225131	3	5.14E+00	-0.269522835
WBGene00018755	-0.818869172	10	8.34E+03	-0.578272774
WBGene00018745	-0.066449077	5	1.10E+00	-0.021679464
WBGene00018756	0.025874183	22	1.53E+00	0.123501414
WBGene00021192	-0.007333398	12	1.36E+00	-0.132533406
WBGene00021191	0.225438174	7	1.30E-01	-0.238123087
WBGene00004751	0.661549001	74	4.13E-18	0.438781582
WBGene00206374	0.109646856	2	3.74E-01	0.489549045
WBGene00019641	0.010785796	15	1.32E+00	-0.110827324
WBGene00019640	-0.406409928	8	3.76E+01	-0.058389332
WBGene00003017	-0.03533822	9	1.40E+00	-0.053123449
WBGene00044381	-0.449410013	5	1.33E+01	-0.153362024
WBGene00044382	-0.16329183	2	1.06E+00	-0.101841619
WBGene00021190	-0.334995544	4	4.34E+00	-0.11764307
WBGene00303364	-0.036177976	1	5.85E-01	0.001394833
WBGene00019487	0.141505179	25	1.08E-01	0.019297499
WBGene00019486	-0.565033644	10	5.16E+02	-0.011099153
WBGene00019485	0.011876075	6	7.10E-01	0.002818269
WBGene00019488	0.125207613	3	3.41E-01	-0.111506288
WBGene00019484	-0.022120922	1	5.62E-01	-0.034538018
WBGene00004135	-0.151765074	10	5.58E+00	-0.588162302
WBGene00004467	-0.151840757	8	3.65E+00	-0.222094336
WBGene00019483	-0.136064162	10	4.70E+00	-0.006416291
WBGene00021055	0.148478234	6	2.59E-01	0.135182505
WBGene00021053	-0.354314473	8	2.33E+01	-0.291186924
WBGene00021054	-0.305426712	7	1.05E+01	-0.453434143
WBGene00021052	-0.036409024	7	1.13E+00	-0.078460049
WBGene00020009	-0.412807167	10	9.74E+01	-0.331979174
WBGene00020008	-0.086729719	9	2.34E+00	0.041110464
WBGene00020007	0.905446583	15	1.34E-06	0.332836063
WBGene00006476	0.217052735	69	1.03E-04	0.298753274
WBGene00020368	0.078632376	19	4.77E-01	0.16581814
WBGene00021822	0	2	5.69E-01	0
WBGene00018969	-0.098391413	18	1.17E+01	-0.11831792
WBGene00019855	-0.199422797	30	1.56E+03	-0.17385556
WBGene00019856	-0.010534344	1	5.43E-01	-0.009407048
WBGene00019857	-0.017042219	2	6.07E-01	0
WBGene00019858	-0.345114908	9	3.16E+01	-0.150812821
WBGene00019859	-0.038466874	5	9.21E-01	-0.070119872
WBGene00019854	0.336700671	7	5.16E-02	0.392724744
WBGene00271824	-0.054157573	4	9.00E-01	-0.36266007
WBGene00006495	0.534633986	70	1.16E-13	0.448996491
WBGene00017947	0.637746848	20	7.14E-06	0.360468964
WBGene00017948	0.512103658	32	9.12E-07	0.550271007
WBGene00017949	-0.10461622	1	7.15E-01	-0.104782749
WBGene00206414	-0.275786893	5	4.30E+00	-0.804000256
WBGene00017945	-0.044948078	5	9.61E-01	-0.009510074

WBGene00017944	-0.433377075	15	1.24E+03	-0.513233962
WBGene00015818	-0.557718578	14	4.76E+03	-0.665565488
WBGene00015817	-0.038282518	8	1.29E+00	0.041272664
WBGene00015816	0.506578363	4	3.89E-02	0.223845307
WBGene00185089	0	7	8.38E-01	-0.030876832
WBGene00045297	0.037230434	7	6.16E-01	0.220083098
WBGene00015819	0.345516233	11	1.90E-02	0.198208372
WBGene00015815	0.050726002	12	6.47E-01	0.032450407
WBGene00001673	-0.07020866	15	4.60E+00	-0.038612374
WBGene00015820	-0.276466053	8	1.14E+01	-0.331172377
WBGene00015821	-0.024750829	4	7.63E-01	-0.076370052
WBGene00015299	0.264183269	9	6.85E-02	0.507905378
WBGene00015300	-0.010120496	8	9.94E-01	-0.097940644
WBGene00015301	0.030404694	9	7.21E-01	0.172024227
WBGene00015298	-0.023034976	13	1.83E+00	0.471294126
WBGene00015297	0.114334979	6	3.33E-01	0.217122795
WBGene00015296	0.003346823	4	6.52E-01	0.092305142
WBGene00021796	0.288504549	8	6.42E-02	0.443317511
WBGene00021797	-0.155767267	6	2.45E+00	-0.052877505
WBGene00005787	0	1	5.26E-01	0
WBGene00021798	-0.090031601	8	2.07E+00	-0.009127874
WBGene00021795	-0.867498458	5	2.01E+02	-0.491145332
WBGene00021794	-0.433872457	4	7.54E+00	0.249504851
WBGene00019221	0.294398248	4	1.28E-01	0.296498598
WBGene00003390	0.057030104	10	5.66E-01	0.007902072
WBGene00019220	0.509127	7	1.24E-02	0.422310284
WBGene00019219	-0.043197875	11	1.91E+00	0.017239555
WBGene00019218	0.122712616	16	2.27E-01	0.231225184
WBGene00019217	0.001044932	31	5.22E+00	-0.028955275
WBGene00044310	-0.051881146	14	3.06E+00	-0.556303092
WBGene00019222	0.006537337	2	5.55E-01	-0.009593426
WBGene00019216	-0.60846815	18	1.19E+05	-0.476639933
WBGene00002252	-0.565355534	30	5.91E+07	-0.594847655
WBGene00023425	-0.299050655	10	2.80E+01	-0.256083252
WBGene00015116	0.232279964	14	4.94E-02	0.321351612
WBGene00003825	0.882296088	17	4.64E-07	0.583217376
WBGene00015115	0.264731192	35	1.10E-03	0.077834921
WBGene00001438	0.4152761	14	3.46E-03	-0.019127996
WBGene00022743	-0.191745232	30	1.25E+03	-0.13433814
WBGene00022741	-0.258734627	24	1.35E+03	-0.236673716
WBGene00007036	-0.31231313	6	7.79E+00	-0.039149469
WBGene00044063	-0.133132582	8	3.07E+00	-0.087621039
WBGene00022742	0.144564076	10	2.17E-01	0.035446547
WBGene00022739	0.324026591	44	2.27E-05	0.238812127
WBGene00003699	-0.712474009	7	3.05E+02	-0.270587677
WBGene00020460	-0.211625536	7	4.83E+00	-0.029928234
WBGene00003615	-0.190736018	7	4.07E+00	-0.128590312

WBGene00006657	0.231530348	32	4.88E-03	0.309827453
WBGene00020461	0.084621873	6	4.15E-01	0.061410327
WBGene00021058	0.025362662	19	1.31E+00	0.145100166
WBGene00021057	-0.221508311	15	4.74E+01	-0.702719996
WBGene00021056	-0.036990151	10	1.59E+00	-0.080123164
WBGene00020248	0.089522229	7	3.99E-01	0.048463534
WBGene00020249	0	1	5.26E-01	0.014890617
WBGene00020250	-0.421157506	6	1.74E+01	-0.180750792
WBGene00020252	0.38467623	4	7.70E-02	0.757145804
WBGene00020251	0.2557341	46	2.82E-04	0.278027833
WBGene00015135	0.024471278	5	6.12E-01	0.149180227
WBGene00001948	1	11	2.85E-06	0.819253101
WBGene00015136	0.040798484	2	4.87E-01	0.870055068
WBGene00015134	-0.305328881	8	1.49E+01	-0.331412374
WBGene00005061	-0.196646775	12	1.51E+01	-0.530846102
WBGene00005058	-0.008221285	5	7.57E-01	-0.001864123
WBGene00005059	-0.005932925	3	6.32E-01	-0.01655381
WBGene00005062	-0.294971553	5	4.87E+00	-0.350345372
WBGene00005060	-0.430178531	7	2.95E+01	-0.089277119
WBGene00019489	-0.28794938	5	4.66E+00	-0.440538411
WBGene00019746	-0.026204826	8	1.15E+00	-0.333755979
WBGene00077490	-0.469986897	5	1.52E+01	-0.378898285
WBGene00000928	0.167363863	5	2.42E-01	0.35673283
WBGene00006868	0.463306789	56	1.27E-09	0.143757416
WBGene00019747	0.065351051	23	6.63E-01	0.056568902
WBGene00018046	0.23157616	5	1.60E-01	-0.150927066
WBGene00018045	-0.143534551	3	1.21E+00	-0.039623262
WBGene00018044	-0.082828989	13	4.13E+00	0.047761976
WBGene00004122	-0.539360915	38	2.45E+09	-0.545039616
WBGene00018047	-0.082000379	3	9.04E-01	-0.145599185
WBGene00018048	-0.452754508	5	1.36E+01	-1
WBGene00018049	-0.385705914	4	5.76E+00	-0.252846887
WBGene00018050	-0.751478424	8	8.92E+02	-0.3332438
WBGene00018043	0.302217714	4	1.22E-01	-0.105601511
WBGene00018051	-0.186283096	41	1.56E+04	-0.084922923
WBGene00022283	-0.115826963	8	2.62E+00	-0.206682306
WBGene00020222	0.185236671	9	1.52E-01	0.173698448
WBGene00271415	0.562399762	6	1.22E-02	0.639092194
WBGene00271414	-0.559310556	5	2.71E+01	0.036565114
WBGene00044383	-0.519594473	10	3.14E+02	-0.568217422
WBGene00043986	0.066220267	4	4.58E-01	-0.035951449
WBGene00020223	-0.63488664	15	2.78E+04	-0.507371257
WBGene00001976	0.039970937	6	5.77E-01	-0.721839255
WBGene00020220	0.437146887	4	5.74E-02	0.200225496
WBGene00020221	1	4	1.10E-03	-0.441974357
WBGene00020219	-0.595280102	7	1.16E+02	-0.285553393
WBGene00020224	-0.712086742	5	7.31E+01	-0.378952406

WBGene00020225	-0.516925825	8	1.04E+02	-0.251398761
WBGene00017371	-0.13554279	8	3.14E+00	-0.097504188
WBGene00044744	-0.018064053	4	7.35E-01	0.387368895
WBGene00017369	-0.207352614	11	1.33E+01	0.010034562
WBGene00004461	0.511761873	11	2.66E-03	0.399079525
WBGene00004737	0.370294085	11	1.42E-02	0.222478539
WBGene00006817	0.894099287	10	5.88E-05	0.550944378
WBGene00017372	0.776469885	13	3.37E-05	0.319423912
WBGene00006626	0.931911948	13	4.04E-06	0.531963966
WBGene00006497	0.883819827	8	2.73E-04	0.553052136
WBGene00017373	-0.057437216	52	4.43E+02	0.070421395
WBGene00018274	-0.172405954	13	1.40E+01	0.248794758
WBGene00017374	-0.184956533	4	1.87E+00	-0.140330073
WBGene00018273	-0.015524796	4	7.25E-01	0.000429096
WBGene00018275	-0.139446607	9	3.98E+00	-0.351386934
WBGene00018272	-0.040132259	11	1.84E+00	-0.450005326
WBGene00018271	0.249282905	11	5.96E-02	-0.116852823
WBGene00018270	0.208107148	6	1.67E-01	-0.059855125
WBGene00018269	-0.114930802	13	6.39E+00	-0.10866104
WBGene00018268	-0.285779371	12	4.71E+01	-0.700037703
WBGene00018267	-0.513815185	4	1.18E+01	-0.372456721
WBGene00016163	-0.556173602	13	2.62E+03	-0.604199962
WBGene00016164	-0.235341127	7	5.88E+00	-0.086890162
WBGene00017839	-0.002067835	3	6.21E-01	-0.148209175
WBGene00017838	-0.954341221	5	3.53E+02	-0.796173525
WBGene00017840	-0.783814597	11	1.24E+04	-0.80166773
WBGene00017841	0	3	6.15E-01	-0.226673404
WBGene00044662	-0.752835657	4	4.50E+01	-0.804803578
WBGene00044663	-1	4	4.47E+02	-1
WBGene00017842	-0.579985093	22	7.70E+05	-0.46564966
WBGene00045455	-0.236140978	2	1.40E+00	-0.123394075
WBGene00003424	-0.485405454	6	2.80E+01	-0.244813316
WBGene00270318	-0.014676102	4	7.21E-01	-0.004704403
WBGene00017837	-0.302772738	23	2.68E+03	-0.061117637
WBGene00016353	-0.56802644	6	5.15E+01	-0.55401593
WBGene00050941	0.129334542	5	3.10E-01	-0.093799894
WBGene00016354	0.356433328	45	4.67E-06	0.139779668
WBGene00016355	0.235094653	11	7.05E-02	-0.155691432
WBGene00016356	-0.471581526	10	1.85E+02	-0.470475068
WBGene00003435	-0.630606104	4	2.27E+01	0.05098385
WBGene00016359	0.103956391	7	3.54E-01	0.672735777
WBGene00016352	0.022343955	14	1.04E+00	0.008864843
WBGene00016357	-0.036752976	2	6.54E-01	0.027567399
WBGene00016351	-0.010571027	2	5.92E-01	0.013131207
WBGene00016358	-0.194527556	3	1.54E+00	0.223584677
WBGene00044298	0.303620799	3	1.47E-01	0.079921877
WBGene00020715	-1	5	8.54E+02	-0.594623237

WBGene00044767	0.280265309	9	5.83E-02	0.12405868
WBGene00001027	-0.080877857	17	7.32E+00	-0.065354837
WBGene00017385	-0.074516533	8	1.79E+00	0.068555291
WBGene00017386	-0.909602754	4	1.08E+02	-0.805023409
WBGene00017384	-1	4	2.07E+03	-1
WBGene00017387	-0.488741372	4	1.03E+01	-0.835429117
WBGene00044384	-0.006139775	4	6.87E-01	-0.019125599
WBGene00000606	-0.267254773	8	1.05E+01	-0.569970418
WBGene00000609	-0.066058813	7	1.45E+00	-0.487213128
WBGene00000649	-0.840274731	5	1.68E+02	-0.856087206
WBGene00271822	-0.166854191	3	1.35E+00	-0.426183725
WBGene00017388	-0.436887486	2	3.01E+00	-0.186481207
WBGene00001754	-0.512744763	6	3.42E+01	-0.66314539
WBGene00001755	-0.110211686	6	1.75E+00	-0.169703646
WBGene00001756	-0.544874276	8	1.34E+02	-0.982403576
WBGene00019891	0.112900035	3	3.61E-01	0.08975409
WBGene00019890	-0.003193668	14	1.51E+00	-0.494857795
WBGene00001757	-0.231362802	12	2.35E+01	-0.132535834
WBGene00003431	-0.43114762	5	1.18E+01	-0.324297344
WBGene00003430	-0.265275228	6	5.50E+00	-0.024941642
WBGene00019892	0.138121304	7	2.67E-01	0.315842278
WBGene00019893	0.650843772	6	6.34E-03	0.60516995
WBGene00019888	0.611501536	21	7.53E-06	0.393182753
WBGene00019894	0.317994133	8	4.90E-02	0.421588396
WBGene00019895	-0.219388153	41	5.60E+04	0.019670505
WBGene00003429	-0.685813048	4	3.09E+01	0.077217806
WBGene00003470	0.068003915	6	4.69E-01	-0.136141392
WBGene00001778	0.464233362	11	4.66E-03	0.175454412
WBGene00022762	0.402143793	13	5.54E-03	0.08760131
WBGene00022761	1	3	2.43E-03	1
WBGene00022766	0.852569331	12	2.36E-05	0.955735434
WBGene00195246	1	3	1.45E-03	0.830333224
WBGene00007012	2	10	1.91E-09	2
WBGene00022765	0.153900466	4	2.81E-01	0.619563017
WBGene00022759	0.107997598	7	3.43E-01	0.285690371
WBGene00006619	0.323790746	9	3.76E-02	0.116191581
WBGene00006997	0.265949677	17	1.87E-02	0.706724455
WBGene00003580	0.302545343	6	8.30E-02	0.935806087
WBGene00003949	0.460310824	4	5.04E-02	1
WBGene00006737	0.875128813	20	6.36E-08	0.610166579
WBGene00020867	0.026409687	48	6.15E+00	0.160200234
WBGene00206517	0.752300023	4	9.83E-03	0.497566855
WBGene00020868	0.592441428	9	2.52E-03	0.740684069
WBGene00194986	0.545988403	5	2.07E-02	0.538374278
WBGene00020866	0.753206698	7	1.64E-03	0.646348423
WBGene00004382	0.562840254	9	3.39E-03	0.576965481
WBGene00044664	0.10035837	3	3.83E-01	0.188003757

WBGene00019087	-0.172477526	23	1.42E+02	-0.581145916
WBGene00044385	-0.200254946	3	1.58E+00	-0.169253678
WBGene00019086	-0.401362314	17	1.82E+03	-0.404994225
WBGene00019085	-0.209982974	16	5.17E+01	-0.267340326
WBGene00044665	-0.134906277	3	1.16E+00	-0.224967043
WBGene00019084	-0.286824768	4	3.31E+00	-0.433631214
WBGene00003822	0.679723773	28	4.49E-08	0.857671231
WBGene00303064	0.017480327	1	5.00E-01	0.027798412
WBGene00018014	1	4	9.46E-04	2
WBGene00018015	2	6	4.44E-06	2
WBGene00018016	0.548291786	6	1.35E-02	0.593558246
WBGene00018017	0.658275928	13	1.69E-04	0.954125623
WBGene00044666	0.254036057	3	1.86E-01	0.040268925
WBGene00018018	1	21	2.23E-10	0.799792358
WBGene00002068	0.957233113	7	3.03E-04	1
WBGene00004434	3	3	1.49E-06	2
WBGene00206373	3	6	2.76E-10	2
WBGene00016152	1	13	4.25E-09	1
WBGene00016151	0.030043878	25	1.63E+00	-0.125682944
WBGene00044387	-0.042948014	1	5.97E-01	0.057126517
WBGene00016153	-0.911839456	6	6.53E+02	0.531358661
WBGene00044386	-0.061020129	2	7.18E-01	0.049647162
WBGene00001102	0.382747151	20	1.14E-03	-0.067725511
WBGene00015454	0.941161165	5	1.59E-03	0.048136777
WBGene00004040	0.271587631	33	1.21E-03	0.180922755
WBGene00015455	0.71617324	2	3.70E-02	1
WBGene00015453	0.154264808	3	2.97E-01	0.602653035
WBGene00077489	0.095415908	7	3.80E-01	0.210706156
WBGene00015456	-0.095985292	7	1.86E+00	-0.146553971
WBGene00015457	-0.093008235	3	9.52E-01	-0.018390495
WBGene00015458	-0.205209198	3	1.62E+00	0.560935347
WBGene00015459	0.194584872	2	2.71E-01	0.591845528
WBGene00003402	0.13516528	11	2.30E-01	0.348670537
WBGene00017277	-0.072975049	7	1.53E+00	0.06622844
WBGene00017279	-0.163738336	9	5.08E+00	-0.732154023
WBGene00003462	-0.433540301	2	2.97E+00	-0.315431728
WBGene00017278	0.065302752	6	4.79E-01	-0.091398659
WBGene00001588	-0.21285321	8	6.38E+00	0.113532498
WBGene00019023	-0.053801771	4	8.98E-01	0.13559636
WBGene00003547	-0.118773289	10	3.89E+00	0.380071759
WBGene00019022	-0.692581159	8	5.20E+02	-0.179480748
WBGene00019024	0.140446361	7	2.62E-01	0.111566937
WBGene00019025	-0.030537833	6	9.72E-01	0.171994677
WBGene00019027	-0.002313019	1	5.30E-01	-0.009552692
WBGene00019028	-0.030174732	6	9.69E-01	-0.168431939
WBGene00003438	-0.052603555	3	7.87E-01	-0.249751794
WBGene00019026	-0.399668189	3	4.04E+00	-0.346893454

WBGene00044388	-0.320639164	5	5.76E+00	-0.187508379
WBGene00005070	-0.034389067	2	6.49E-01	-0.023599342
WBGene00005068	0	4	6.64E-01	0
WBGene00005067	-0.204790218	4	2.09E+00	-0.018472761
WBGene00005066	-0.204766341	4	2.09E+00	-0.005050238
WBGene00303362	-0.005347536	2	5.81E-01	0
WBGene00016160	-0.748368558	20	6.66E+06	-0.327881713
WBGene00016161	-0.744750551	4	4.30E+01	-0.159804002
WBGene00044389	-0.377595243	2	2.40E+00	-0.345027617
WBGene00016162	0.026378409	19	1.29E+00	0.273149652
WBGene00003442	-0.179187841	3	1.43E+00	0.308966676
WBGene00016416	0.274155511	12	3.75E-02	0.004412691
WBGene00003443	1	4	1.53E-03	0.757892362
WBGene00016415	0.741749772	21	5.03E-07	0.855868449
WBGene00016417	0.083094036	4	4.17E-01	0.57678358
WBGene00016414	0.204622811	4	2.11E-01	-0.122405226
WBGene00016413	0.108823213	4	3.61E-01	0.950120511
WBGene00001101	0.426657965	40	1.10E-06	0.114487332
WBGene00017148	0.662114578	4	1.63E-02	0.826341093
WBGene00017147	0.892139474	11	2.93E-05	0.931627584
WBGene00004020	0.770513971	13	3.65E-05	1
WBGene00004023	1	5	8.55E-05	1
WBGene00020539	-0.005998611	2	5.82E-01	0.088008831
WBGene00004221	-0.392031049	14	4.29E+02	-0.058135288
WBGene00016909	-0.024557818	8	1.13E+00	0.151434337
WBGene00016910	0.393244337	2	1.27E-01	1
WBGene00016911	1	6	1.84E-04	1
WBGene00022781	0.077256831	16	4.77E-01	0.049706224
WBGene00001806	0.136775021	10	2.36E-01	0.22256689
WBGene00044667	1	8	1.32E-05	2
WBGene00022782	2	6	5.65E-06	0.794591449
WBGene00022780	2	10	1.85E-09	2
WBGene00001538	1	41	3.46E-18	1
WBGene00006923	0.136515788	53	3.52E-02	0.320467237
WBGene00017291	-0.067108827	8	1.68E+00	-0.095525448
WBGene00017287	-0.036431205	4	8.15E-01	-0.707989452
WBGene00017288	0.220103392	11	8.42E-02	0.018793851
WBGene00017286	0.331355838	4	1.04E-01	0.526871653
WBGene00017285	0.257720906	9	7.31E-02	0.354309466
WBGene00005226	0.297698384	6	8.60E-02	0.427424999
WBGene00017289	0.1226043	11	2.67E-01	-0.098417809
WBGene00017293	0.034400261	8	6.61E-01	-0.089837711
WBGene00017284	0.061773724	41	1.07E+00	0.250156324
WBGene00017292	0.244595625	9	8.35E-02	0.639577147
WBGene00017290	0.29543886	5	1.05E-01	0.071579591
WBGene00000094	-0.057726375	3	8.07E-01	0.233425052
WBGene00017283	0.114430386	7	3.25E-01	-0.377436384

WBGene00017282	0.159313047	9	1.97E-01	0.529945153
WBGene00006434	0.020183235	6	6.68E-01	-0.128163915
WBGene00004034	0.030879151	16	1.02E+00	-0.099314594
WBGene00017136	-0.46002078	13	7.07E+02	0.282247987
WBGene00004701	0.566162743	11	1.39E-03	0.199425035
WBGene00003583	0.513072446	7	1.20E-02	0.560388452
WBGene00017144	0.430824699	16	1.49E-03	0.57921662
WBGene00017137	0.033954613	5	5.76E-01	0.261283383
WBGene00017138	0.226527696	16	4.18E-02	0.028192505
WBGene00003393	0.236675775	32	4.17E-03	0.077052277
WBGene00017139	0.116510983	4	3.46E-01	0.305403379
WBGene00017140	-0.680838273	4	3.01E+01	-0.453430015
WBGene00017135	-0.238847562	3	1.89E+00	-0.500345682
WBGene00017141	-0.524883925	6	3.74E+01	-0.632385666
WBGene00194696	-2	1	5.14E+01	-1
WBGene00017142	-0.693987868	9	1.06E+03	-1
WBGene00017134	-0.332678216	8	1.91E+01	0.210382894
WBGene00017133	0.173842212	6	2.15E-01	-0.012879623
WBGene00017143	-0.170326725	8	4.32E+00	-0.404240238
WBGene00017132	-0.207633719	7	4.68E+00	-0.056004554
WBGene00017219	-0.071105288	5	1.14E+00	-0.198515699
WBGene00017220	0.657648637	7	3.62E-03	-0.418433431
WBGene00017217	0.329559661	12	1.85E-02	0.178424071
WBGene00017216	0.566616335	5	1.81E-02	0.643895868
WBGene00006005	0.085291186	2	4.11E-01	0.061978021
WBGene00017218	-0.081976528	3	9.04E-01	0.025493939
WBGene00017215	-0.272372898	7	7.99E+00	0.191381474
WBGene00003774	0.079614225	21	4.74E-01	0.317218188
WBGene00023407	1	8	2.65E-05	0.702090103
WBGene00000969	0.002908386	4	6.53E-01	-0.002685639
WBGene00000935	-0.007593936	9	1.06E+00	-0.069004863
WBGene00000548	0.7310353	32	1.12E-09	0.871194504
WBGene00018961	0.648228325	7	3.91E-03	0.383816178
WBGene00018960	-0.011111155	15	1.85E+00	0.151907344
WBGene00018959	0.220382229	11	8.39E-02	0.27979465
WBGene00017394	0.12587318	7	2.96E-01	-0.273714845
WBGene00017393	-0.841403421	17	3.53E+06	-0.856148674
WBGene00017395	-0.368910634	2	2.32E+00	-0.342763243
WBGene00017390	-0.602168939	2	5.66E+00	-0.186879261
WBGene00017396	-0.580275034	7	1.02E+02	-0.462504333
WBGene00077704	-0.629816273	4	2.26E+01	0.073020991
WBGene00017397	-0.179340317	10	7.55E+00	0.380962575
WBGene00001511	-0.39293954	16	1.02E+03	-0.66315749
WBGene00000375	0.145946993	19	1.33E-01	-0.108437918
WBGene00022672	0.181112908	11	1.34E-01	0.100272373
WBGene00022673	-0.011196633	15	1.85E+00	0.007801116
WBGene00022671	-0.100663518	4	1.17E+00	-0.235975493

WBGene00022674	-0.555177322	3	8.39E+00	-0.401068426
WBGene00022670	-0.498212539	6	3.07E+01	-0.302148541
WBGene00303359	-0.283439344	1	1.21E+00	-0.388580647
WBGene00044390	-0.022747991	1	5.63E-01	-0.0037403
WBGene00006554	-0.297856053	5	4.97E+00	-0.46077008
WBGene00022669	-0.181601595	10	7.73E+00	-0.19837304
WBGene00002121	-0.228011037	7	5.53E+00	0.081825642
WBGene00015892	0.007286799	2	5.53E-01	0.001413012
WBGene00001965	-0.138684879	6	2.16E+00	0.127374637
WBGene00001964	-0.149811565	5	1.90E+00	-0.004031599
WBGene00015893	-0.104779011	4	1.19E+00	0.18760528
WBGene00001966	-0.060020271	7	1.38E+00	-0.157650712
WBGene00219272	-0.341288038	5	6.58E+00	0.090558373
WBGene00002096	0.010920515	1	5.10E-01	0.008440295
WBGene00015894	-0.207910004	14	2.96E+01	-0.436857663
WBGene00015891	-0.150669524	4	1.54E+00	-0.262239186
WBGene00015890	-0.807571459	6	3.02E+02	-0.381054175
WBGene00002095	-0.010952554	3	6.47E-01	-0.002787083
WBGene00002094	-0.397274224	1	1.68E+00	-0.10837814
WBGene00015889	-0.076150924	5	1.18E+00	0.177793918
WBGene00015888	0.200063195	4	2.17E-01	-0.093757158
WBGene00015895	0.063026682	4	4.67E-01	-0.076565119
WBGene00015887	0.541799704	13	8.26E-04	0.540451749
WBGene00015896	0.522895862	3	5.24E-02	1
WBGene00020803	0.06757134	4	4.55E-01	0.542805607
WBGene00020804	0.045632088	7	5.74E-01	0.240723589
WBGene00015917	-0.052038627	5	1.01E+00	0.188027805
WBGene00003097	0.138414184	8	2.54E-01	0.287752836
WBGene00270322	0.558177336	6	1.26E-02	0.292371926
WBGene00000383	0.664884058	11	4.33E-04	0.412980166
WBGene00015916	0.678700837	12	2.17E-04	0.762901353
WBGene00015915	0.142532047	9	2.33E-01	0.688214759
WBGene00195182	0.462839522	2	9.73E-02	0.80703364
WBGene00015918	-0.147104693	15	1.51E+01	0.310633324
WBGene00015919	-0.755638324	5	9.70E+01	-0.49768273
WBGene00000970	-0.251385387	6	4.97E+00	0.286177172
WBGene00015920	0.391686368	17	2.15E-03	0.27430853
WBGene00019121	0.187907901	8	1.62E-01	-0.490920629
WBGene00235269	0.253263204	7	1.03E-01	-0.370127631
WBGene00019122	0.610416828	8	3.35E-03	-0.010436272
WBGene00019120	0.061890852	8	5.13E-01	-0.059007045
WBGene00019123	-0.283097918	7	8.73E+00	-0.000468934
WBGene00019119	-0.157063629	6	2.47E+00	-0.203892548
WBGene00019124	0.085266195	31	4.28E-01	-0.020745957
WBGene00019125	0.234147904	5	1.57E-01	0.295224457
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WBGene00302971	0.432830847	5	4.32E-02	0.413403395

WBGene00006988	0.155527928	24	8.15E-02	-0.054859878
WBGene00000252	0.109500708	2	3.75E-01	0.134436194
WBGene00019118	0.243374292	12	5.56E-02	0.269638612
WBGene00006402	0.276736852	7	8.48E-02	0.240509144
WBGene00016121	0.393342336	4	7.34E-02	0.976353652
WBGene00016115	0.627482109	7	4.65E-03	0.562127545
WBGene00044391	0.521740087	3	5.27E-02	0.697113569
WBGene00044392	-0.104317811	3	1.00E+00	0.878400478
WBGene00016116	0.210652061	7	1.47E-01	0.452222289
WBGene00194642	0.029626799	1	4.83E-01	-0.036071489
WBGene00016120	-0.005839412	72	1.90E+02	0.157541209
WBGene00016114	-0.538490932	10	3.86E+02	-0.295163323
WBGene00016118	0.073358065	3	4.35E-01	0.56785015
WBGene00016113	-0.064587499	13	3.22E+00	0.188748416
WBGene00016112	0.190446977	4	2.29E-01	0.360782661
WBGene00016123	-0.11243613	5	1.49E+00	0.309282711
WBGene00016119	-0.071012599	8	1.74E+00	-0.011460192
WBGene00016111	-0.027876393	4	7.76E-01	-0.21502957
WBGene00015942	-0.12835515	10	4.32E+00	0.298573772
WBGene00015943	0.41256182	11	8.60E-03	0.752621233
WBGene00015945	0.263354227	5	1.30E-01	0.695941688
WBGene00015946	0.272246897	3	1.71E-01	0.718055664
WBGene00015941	0.077892114	8	4.43E-01	0.940560975
WBGene00015940	0.157366284	8	2.14E-01	0.11790041
WBGene00015939	0.495819299	11	3.21E-03	0.305352059
WBGene00004267	0.68748715	13	1.13E-04	0.821895008
WBGene00015944	-0.098959296	3	9.79E-01	-0.065929609
WBGene00044668	-0.225498384	2	1.34E+00	-0.001164899
WBGene00001958	-0.227775613	3	1.80E+00	-0.118455575
WBGene00044296	0.026890851	7	6.71E-01	-0.031687991
WBGene00002054	-0.329885554	23	4.95E+03	-0.14514211
WBGene00017327	-0.793777356	10	6.33E+03	-0.245529498
WBGene00017325	-0.240608763	5	3.42E+00	-0.248079676
WBGene00271819	-0.01327473	3	6.54E-01	-0.127827862
WBGene00002053	0.379837721	28	1.49E-04	0.373477768
WBGene00017326	0.956324854	4	3.13E-03	0.8528983
WBGene00017324	2	3	2.02E-05	2
WBGene00019408	1	18	1.87E-09	1
WBGene00270309	0.537810998	5	2.18E-02	0.828259524
WBGene00019407	0.476827985	18	3.51E-04	0.253928463
WBGene00271818	0.682362371	8	1.73E-03	-0.122198053
WBGene00019406	0.35668824	7	4.37E-02	0.414919157
WBGene00003456	-0.056595552	4	9.12E-01	-0.476593643
WBGene00003469	-0.11340481	4	1.25E+00	0.007471651
WBGene00019409	-0.841863509	4	7.41E+01	-0.165732321
WBGene00019410	-0.963301319	6	9.54E+02	-0.701011114
WBGene00019405	-0.092050338	5	1.30E+00	-0.278802686

WBGene00019411	0.087689453	10	4.05E-01	-0.109166945
WBGene00003457	-0.363694692	4	5.09E+00	-0.345697595
WBGene00022876	-0.520877722	10	3.18E+02	-0.236970235
WBGene00022877	-1	20	9.98E+08	-0.977777478
WBGene00044393	-0.453416667	4	8.42E+00	-0.394032626
WBGene00022875	-0.304276936	2	1.82E+00	0.461880805
WBGene00001224	0.568200212	20	2.85E-05	0.530282086
WBGene00022880	0.188778158	24	3.74E-02	0.053976359
WBGene00022881	-1	3	1.01E+02	-0.367327196
WBGene00022882	0.047461719	25	1.06E+00	0.318109606
WBGene00000650	0.257648265	6	1.16E-01	0.412181238
WBGene00001509	0.014368354	10	9.03E-01	-0.034617399
WBGene00022883	-0.228848016	11	1.72E+01	0.428781846
WBGene00022885	0.025219638	6	6.44E-01	0.116372535
WBGene00002268	0.272728846	13	3.24E-02	-0.19558208
WBGene00022874	-0.828877886	9	4.11E+03	-0.457721443
WBGene00022884	1	2	6.00E-03	0.785763163
WBGene00019270	-0.054487741	16	4.10E+00	-0.200350686
WBGene00019269	-0.544034921	9	2.34E+02	-0.058469439
WBGene00019268	-0.351529262	10	4.98E+01	-0.470728897
WBGene00018871	0.639548219	9	1.57E-03	0.864909811
WBGene00018874	-0.247096951	2	1.46E+00	-0.165722327
WBGene00271817	0.118966557	5	3.31E-01	0.294591229
WBGene00018872	0.096990663	34	2.94E-01	0.400023401
WBGene00018873	0.017200151	5	6.42E-01	-0.213353988
WBGene00018870	-0.715958259	4	3.66E+01	-0.68564237
WBGene00018869	0.260080065	28	3.78E-03	0.342223393
WBGene00019128	-0.111070921	25	5.05E+01	-0.218711639
WBGene00006644	-0.060931851	9	1.81E+00	-0.173312291
WBGene00019129	-0.136086848	3	1.17E+00	0.150956041
WBGene00006933	0.819685877	15	5.05E-06	0.512460812
WBGene00019127	0.207528497	9	1.21E-01	0.381029998
WBGene00001486	0.469536146	5	3.40E-02	0.356438365
WBGene00004214	0.010600766	14	1.24E+00	-0.08768624
WBGene00017895	-0.324094503	10	3.69E+01	-0.248750563
WBGene00001208	0.019695251	24	1.97E+00	0.018965724
WBGene00206371	0.341043183	2	1.55E-01	0.29424017
WBGene00017894	0.370317223	6	5.03E-02	-0.392737441
WBGene00015003	0.731716892	3	1.96E-02	0.381462022
WBGene00000403	1	37	2.21E-18	1
WBGene00044394	1	2	3.30E-03	1
WBGene00015004	0.110210335	4	3.58E-01	-0.107573139
WBGene00015002	-0.19671732	11	1.18E+01	-0.03742497
WBGene00015005	0.186476492	8	1.64E-01	-0.267136357
WBGene00002085	-0.03053652	3	7.10E-01	0.133307311
WBGene00002086	-0.262493009	3	2.12E+00	-0.262143572
WBGene00002087	-0.24494353	5	3.52E+00	-0.024548212

WBGene00002088	-0.848144918	8	2.16E+03	-0.7952342
WBGene00002089	-0.076340108	3	8.80E-01	0.13817981
WBGene00022651	-0.695474445	1	4.02E+00	-0.320076889
WBGene00002103	-0.043814478	2	6.72E-01	-0.050937635
WBGene00022650	-0.112420566	7	2.13E+00	-0.455309452
WBGene00022652	0.01736664	1	5.00E-01	-0.115875876
WBGene00022649	-0.047551475	6	1.10E+00	0.018486705
WBGene00020029	-0.172677099	4	1.75E+00	0.317885158
WBGene00020023	-0.019179807	2	6.12E-01	0.442637573
WBGene00020024	-0.021729027	1	5.61E-01	0.569375082
WBGene00044395	-0.328510113	4	4.18E+00	0.389752702
WBGene00020025	0.467346333	5	3.45E-02	0.528876118
WBGene00020026	-0.032955017	7	1.10E+00	-0.345964777
WBGene00004306	0.554906235	8	5.58E-03	-0.034387513
WBGene00020022	-0.261196929	22	7.70E+02	-0.117438362
WBGene00020027	0.210649564	2	2.55E-01	0.235165522
WBGene00019190	-0.294794935	17	2.90E+02	-0.153313917
WBGene00019192	-0.26561625	4	2.94E+00	-0.092431334
WBGene00019194	-0.008696452	1	5.40E-01	-0.004552127
WBGene00001401	-0.145547252	8	3.44E+00	-0.274622955
WBGene00017685	-0.469350018	7	4.08E+01	-0.198799626
WBGene00004209	-0.410941749	14	5.65E+02	-0.758379062
WBGene00001402	-0.24958034	9	1.21E+01	-0.121088035
WBGene00044287	0.58933544	7	6.37E-03	-0.019909677
WBGene00017686	0.071425654	21	5.62E-01	0.243442426
WBGene00017683	-0.491909754	10	2.32E+02	0.167323452
WBGene00004346	-0.279109408	38	2.11E+05	-0.125337428
WBGene00016236	-0.490542613	12	6.40E+02	-0.580466628
WBGene00016237	0.150048989	11	1.93E-01	0.520342807
WBGene00016235	0.073069069	4	4.41E-01	0.424382994
WBGene00004680	-0.208360788	12	1.76E+01	0.103863219
WBGene00019018	0.557624921	82	1.69E-16	0.462631543
WBGene00001373	0.144947477	14	1.76E-01	0.431073158
WBGene00002030	0.17992253	13	1.15E-01	0.610125852
WBGene00018251	-0.008467247	4	6.96E-01	0.013131074
WBGene00018250	0.104131868	6	3.59E-01	-0.393356743
WBGene00018249	0.726457715	20	1.22E-06	0.430213889
WBGene00018252	-0.423932913	7	2.80E+01	-0.669616052
WBGene00001440	-0.226166141	10	1.26E+01	-0.157127959
WBGene00000771	-0.675176867	11	3.41E+03	-0.328198759
WBGene00016245	-0.0506939	7	1.28E+00	0.396859173
WBGene00016244	0.227901016	3	2.10E-01	0.378881956
WBGene00077732	-0.251086477	17	1.37E+02	-0.355957757
WBGene00269379	-0.060826889	4	9.34E-01	-0.019683056
WBGene00016246	0.552065771	12	1.09E-03	0.519262638
WBGene00194710	-0.00155889	1	5.29E-01	0.009624424
WBGene00016247	-0.119501793	9	3.26E+00	0.002298035

WBGene00016248	-0.047937923	10	1.79E+00	-0.32886668
WBGene00020784	-0.227058894	29	2.61E+03	-0.250404906
WBGene00206412	-0.77117171	3	2.32E+01	-0.177191823
WBGene00020783	0.527142311	3	5.14E-02	1
WBGene00020782	0.91630066	3	8.22E-03	2
WBGene00020781	1	9	4.93E-06	2
WBGene00004015	0.661459208	8	2.10E-03	0.367153839
WBGene00017438	0.435149479	11	6.58E-03	0.178744111
WBGene00017443	-0.226156534	5	3.12E+00	-0.037872201
WBGene00017437	-0.377211455	10	6.60E+01	-0.384845313
WBGene00017444	-0.431764839	6	1.88E+01	-0.350120767
WBGene00017436	0.149269736	6	2.58E-01	-0.442092855
WBGene00017441	-0.157416871	15	1.77E+01	-0.366470084
WBGene00017435	0.330173113	16	7.71E-03	-0.02335997
WBGene00000259	0.264422418	21	1.02E-02	0.390733849
WBGene00017442	0.356129015	9	2.72E-02	0.301021568
WBGene00017434	-0.119368497	6	1.87E+00	-0.045047867
WBGene00017439	0.176325371	7	1.95E-01	0.135625627
WBGene00017440	0.65196694	4	1.72E-02	0.287540542
WBGene00016212	0.801964384	4	7.44E-03	0.513614172
WBGene00003403	-0.163634589	4	1.66E+00	-0.020342234
WBGene00016210	0.304369072	9	4.57E-02	0.185834663
WBGene00044589	0.22250499	2	2.43E-01	0.227261156
WBGene00016215	-0.503685523	7	5.42E+01	-0.225738567
WBGene00016311	0.292945716	16	1.42E-02	0.447581862
WBGene00016312	0.080857091	3	4.20E-01	0.09294464
WBGene00004860	-0.494172436	13	1.13E+03	-0.20178018
WBGene00016313	0.174932268	7	1.97E-01	-0.065579376
WBGene00016314	0.349105171	8	3.68E-02	0.483487392
WBGene00044755	0.105517423	5	3.62E-01	-0.55808115
WBGene00016315	-0.494274505	12	6.71E+02	-0.511919923
WBGene00016316	-0.277058957	16	1.55E+02	-0.303216249
WBGene00016310	-0.384239902	9	4.68E+01	-0.164638331
WBGene00002980	0.309466382	3	1.43E-01	0.261733133
WBGene00016317	0.325069696	21	2.89E-03	0.231131837
WBGene00016318	0.132555476	18	1.78E-01	0.196190398
WBGene00016319	0.178014591	7	1.92E-01	0.402551715
WBGene00019607	0.143446555	4	2.97E-01	0.223653097
WBGene00019608	-0.278220004	17	2.18E+02	-0.295301357
WBGene00019606	-0.181953954	9	6.11E+00	-0.732197768
WBGene00019605	-0.417115225	6	1.69E+01	-0.099326745
WBGene00003009	0.146480854	14	1.72E-01	0.322047585
WBGene00271812	0.074932248	4	4.37E-01	0.360645986
WBGene00019061	-0.695911268	5	6.58E+01	-0.201156895
WBGene00044756	-0.027694249	2	6.32E-01	-0.184168683
WBGene00019062	-0.199225124	5	2.62E+00	-0.319917959
WBGene00019063	0.034487724	6	6.01E-01	-0.223984021

WBGene00020800	1	6	1.87E-04	1
WBGene00020802	-0.661013394	6	1.02E+02	0.172162446
WBGene00020799	-0.384926222	9	4.71E+01	0.006530238
WBGene00004996	-0.147298503	4	1.52E+00	-0.059888555
WBGene00020801	-0.070504165	12	3.03E+00	-0.134642893
WBGene00019372	-0.460882199	8	6.20E+01	-0.411161775
WBGene00000651	-0.479144809	6	2.67E+01	0.200465256
WBGene00019426	-0.917771622	13	3.63E+05	-0.678533019
WBGene00019425	0.02935771	6	6.24E-01	-0.036654517
WBGene00003621	0.03190975	14	9.07E-01	0.154239904
WBGene00019427	0.287900506	13	2.63E-02	0.495628508
WBGene00019424	-0.389189254	7	2.10E+01	-0.368359467
WBGene00019428	-0.131802616	37	8.71E+02	-0.031780907
WBGene00020897	0.10889933	24	2.43E-01	0.506312468
WBGene00270303	0.239544498	4	1.74E-01	0.774702121
WBGene00020896	-0.150032146	2	1.01E+00	0.614664953
WBGene00020898	-0.046239545	8	1.38E+00	0.112692082
WBGene00020895	0.27305319	11	4.49E-02	0.303043842
WBGene00004916	0.013806164	3	5.76E-01	0.852360893
WBGene00004702	0.596209591	12	6.20E-04	0.23209065
WBGene00020899	0.516333574	1	1.16E-01	0.232308384
WBGene00020894	1	4	1.57E-03	0.657810578
WBGene00019904	0.316711521	13	1.78E-02	0.070635075
WBGene00206514	-0.429789819	4	7.37E+00	-0.112428566
WBGene00019905	-0.62436449	5	4.14E+01	-0.520027751
WBGene00019903	-0.212147212	1	9.79E-01	-0.080137815
WBGene00016970	-0.132336563	126	3.24E+10	-0.201681546
WBGene00019906	-0.370893326	26	4.25E+04	-0.188128425
WBGene00043984	-0.232567905	10	1.35E+01	-0.205361759
WBGene00016971	-0.17577663	13	1.47E+01	-0.254904365
WBGene00016972	-0.114397424	7	2.16E+00	0.10634301
WBGene00016973	-0.203752635	6	3.49E+00	-0.067634518
WBGene00006522	-0.031661582	12	1.85E+00	0.031897211
WBGene00007050	0.358592066	70	9.91E-09	0.309342299
WBGene00016974	0.370213397	16	4.01E-03	0.308805167
WBGene00006944	0.588151803	19	2.99E-05	0.821551674
WBGene00017563	1	8	1.35E-06	1
WBGene00017559	2	9	5.29E-09	1
WBGene00017560	2	5	4.51E-06	2
WBGene00017562	-0.05918283	3	8.12E-01	0.726346862
WBGene00005053	-0.13156755	9	3.68E+00	0.327202967
WBGene00005054	-0.335272073	9	2.86E+01	0.149902739
WBGene00005055	-0.470861243	6	2.51E+01	0.28987333
WBGene00005057	-0.038580646	3	7.37E-01	-0.107770936
WBGene00016963	-0.365114868	9	3.86E+01	-0.284513214
WBGene00016962	0.693538396	8	1.56E-03	0.166608111
WBGene00016964	0.698962398	8	1.49E-03	0.586389419

WBGene00002045	2	6	2.81E-07	2
WBGene00016961	0.613435391	4	2.14E-02	0.462871558
WBGene00016965	0.795412354	12	4.90E-05	0.253702235
WBGene00016966	0.484493984	5	3.09E-02	0.683520986
WBGene00001026	0.464927478	19	3.11E-04	0.560346975
WBGene00016968	0.045032272	62	4.49E+00	0.138962621
WBGene00016960	0.216532894	18	3.90E-02	-0.227738972
WBGene00003480	-0.135379879	11	5.68E+00	-0.15862022
WBGene00018840	-0.138861257	6	2.16E+00	0.01154047
WBGene00255600	-0.021625492	2	6.18E-01	-0.01282263
WBGene00018841	-1	6	2.92E+03	-0.734144011
WBGene00018839	0.005707461	12	1.15E+00	-0.346916921
WBGene00020579	-0.698563204	23	2.03E+07	-0.798366105
WBGene00020580	-1	8	1.15E+05	-1
WBGene00020581	0.070187021	19	5.60E-01	0.209234751
WBGene00020582	0.03161584	3	5.30E-01	-0.0352913
WBGene00005052	0.000209024	5	7.17E-01	-0.000173836
WBGene00020583	-0.13100684	3	1.14E+00	-0.11792605
WBGene00020584	-0.113129821	8	2.56E+00	0.11819354
WBGene00020578	-0.32616775	4	4.13E+00	-0.113298117
WBGene00020577	-0.779284564	13	5.49E+04	-0.554330074
WBGene00020576	-0.571720892	38	7.83E+09	-0.633299632
WBGene00019273	-0.529745605	39	3.00E+09	-0.673484445
WBGene00016005	-0.459134285	11	2.63E+02	-0.61059681
WBGene00016002	0.574420047	30	3.24E-07	0.561444685
WBGene00016003	-0.095031553	10	3.00E+00	0.621522613
WBGene00016000	-0.035787194	6	1.01E+00	0.001403275
WBGene00016004	0.690511163	4	1.39E-02	0.3227139
WBGene00004507	0.656439166	13	1.73E-04	1
WBGene00001072	0.57383801	7	7.24E-03	-0.190427483
WBGene00302993	0.010505411	7	7.68E-01	-0.292387871
WBGene00001064	-0.455559517	8	5.91E+01	-0.905152833
WBGene00020501	-0.129488714	2	9.32E-01	0.227553725
WBGene00303080	-0.189216592	1	9.15E-01	0.195355032
WBGene00006636	0.673660768	5	9.04E-03	0.616388467
WBGene00020502	0.903766436	21	1.74E-08	1
WBGene00020503	0.004013343	10	1.01E+00	0.165927935
WBGene00020500	-0.02145942	6	9.09E-01	0.161468783
WBGene00020499	0.122080704	4	3.35E-01	0.110764784
WBGene00020498	0.580352314	21	1.44E-05	0.267994477
WBGene00018305	0.637297979	4	1.87E-02	0.54828085
WBGene00018302	0.549595661	9	3.88E-03	0.754735706
WBGene00002098	0.055485691	2	4.60E-01	0.375253996
WBGene00002097	-0.001455301	2	5.72E-01	0.014045375
WBGene00018301	-0.066972837	6	1.27E+00	0.170242367
WBGene00018303	-0.160589532	3	1.31E+00	-0.015872894
WBGene00044315	-0.132304649	2	9.42E-01	-0.055336882

WBGene00044317	-0.334399957	1	1.40E+00	-0.01108985
WBGene00044316	-0.390128451	3	3.86E+00	-0.169279888
WBGene00005986	-0.086815017	3	9.25E-01	-0.0218318
WBGene00001424	-0.305956098	5	5.23E+00	-0.147231509
WBGene00018300	-0.21480036	12	1.91E+01	-0.446443331
WBGene00018299	-0.376898524	11	9.94E+01	-1
WBGene00018304	-0.089385712	42	4.32E+02	0.131573724
WBGene00018298	0.159118167	2	3.10E-01	0.081445653
WBGene00044221	-0.627192007	3	1.18E+01	0.183157325
WBGene00020480	0.2444605	6	1.27E-01	0.104493182
WBGene00020482	0.118783825	4	3.41E-01	0.20636142
WBGene00020481	0.831210212	26	2.83E-09	0.498274917
WBGene00020479	0.948707565	9	6.98E-05	0.709406
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WBGene00017954	0.652376465	4	1.72E-02	0.921631807
WBGene00006380	0.222555242	8	1.18E-01	0.773701558
WBGene00017955	-0.363447423	11	8.48E+01	0.153765767
WBGene00004921	0.685678625	17	1.37E-05	0.962679781
WBGene00001194	0.215560823	34	6.32E-03	0.002212753
WBGene00015410	0.243957732	15	3.62E-02	0.265866336
WBGene00206529	2	3	7.23E-05	2
WBGene00001023	2	24	8.37E-17	1
WBGene00016625	0.152132311	6	2.52E-01	0.163064454
WBGene00016626	0.071205279	3	4.40E-01	0.445619238
WBGene00016627	-0.440172146	5	1.25E+01	0.452092717
WBGene00016628	-0.084275486	12	3.61E+00	0.090445584
WBGene00016629	-0.245163758	6	4.74E+00	0.125765489
WBGene00004058	-0.072008118	13	3.56E+00	0.325104854
WBGene00004059	-0.171289264	17	3.47E+01	0.001506452
WBGene00016630	0.709093029	10	4.47E-04	0.62316748
WBGene00016632	0.119297841	9	2.95E-01	0.29960345
WBGene00016631	1	17	5.02E-08	0.993996946
WBGene00016624	0.576579113	16	1.38E-04	0.752904587
WBGene00016623	0.538108779	4	3.26E-02	1
WBGene00015088	0.12905425	10	2.57E-01	0.367200676
WBGene00000211	0.414278064	10	1.13E-02	0.28789459
WBGene00000886	-0.029039329	5	8.67E-01	-0.292947999
WBGene00044615	-0.117000835	3	1.07E+00	0.31785552
WBGene00015089	-0.537833142	11	6.70E+02	-0.58620998
WBGene00015087	0.012437669	7	7.56E-01	-0.082480033
WBGene00017700	-0.042364143	7	1.19E+00	-0.235773392
WBGene00017699	0.34325904	55	8.26E-07	0.221921576
WBGene00017702	0.317767559	13	1.75E-02	0.373234287
WBGene00000459	0.335298574	14	1.11E-02	0.571983878
WBGene00006605	0.080154548	37	5.16E-01	0.360855774
WBGene00004090	0.163274349	6	2.32E-01	0.249243911
WBGene00015796	0.388782515	12	8.71E-03	0.661802357

WBGene00000198	0.016404832	8	7.79E-01	0.234115616
WBGene00004930	0.142209214	8	2.46E-01	0.837398408
WBGene00015797	0.210053008	5	1.83E-01	0.469755346
WBGene00015795	0.727685729	34	3.97E-10	1
WBGene00015794	0.431873541	5	4.35E-02	0.291433342
WBGene00006831	1	64	5.57E-28	1
WBGene00005025	0.525426427	10	3.34E-03	0.849371469
WBGene00016889	0.622409451	30	8.12E-08	0.705771884
WBGene00016890	0.363773241	9	2.52E-02	0.247152932
WBGene00016888	0.382183713	21	8.83E-04	0.200313786
WBGene00022854	0.009041487	14	1.26E+00	0.488729847
WBGene00022853	0.229689439	9	9.70E-02	0.476817753
WBGene00022855	0.394931813	12	8.05E-03	0.387886225
WBGene00022852	-0.22726357	5	3.14E+00	0.243219363
WBGene00022857	-0.06048003	8	1.58E+00	0.526875924
WBGene00195239	0.551147525	5	2.00E-02	0.222335663
WBGene00022851	0.388934235	7	3.35E-02	0.00892656
WBGene00022850	-0.457524668	6	2.28E+01	-0.006853744
WBGene00022856	-0.115350051	6	1.82E+00	0.059047086
WBGene00022849	-0.102519143	12	4.56E+00	0.054359827
WBGene00001872	0.026206762	25	1.79E+00	0.093859343
WBGene00003784	-0.256025371	7	6.98E+00	-0.318221779
WBGene00002238	0.95988854	14	1.27E-06	0.623736035
WBGene00002183	0.270690805	5	1.24E-01	0.214313313
WBGene00020166	0.460397916	7	1.85E-02	0.615804205
WBGene00206521	-0.409092005	1	1.74E+00	-0.315087553
WBGene00020170	0.136022418	6	2.84E-01	0.320245199
WBGene00020163	-0.006284808	28	5.06E+00	0.149433004
WBGene00020168	0.109441024	16	2.82E-01	0.12016889
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WBGene00017349	0.159515802	19	1.03E-01	0.19196268
WBGene00004447	0.983886745	4	2.69E-03	2
WBGene00017350	0.713182347	11	2.44E-04	0.395275426
WBGene00017347	0.377107473	3	1.04E-01	0.743916358
WBGene00017348	0.310083699	2	1.74E-01	0.945985407
WBGene00017351	-0.032617839	10	1.51E+00	0.358780142
WBGene00006893	-0.320560309	14	1.52E+02	-0.402727895
WBGene00017352	0.169472435	6	2.22E-01	-0.023826315
WBGene00017344	0.082311618	14	4.36E-01	-0.251061963
WBGene00017343	-0.510888335	7	5.76E+01	-0.14400757
WBGene00020320	0.159869387	6	2.38E-01	0.284913559
WBGene00001597	-0.170653909	26	2.71E+02	-0.255002712
WBGene00020319	0.014566881	8	7.92E-01	0.189011775
WBGene00020318	0.463564612	13	2.40E-03	0.551439975
WBGene00016173	0.36677823	17	3.30E-03	0.049141115
WBGene00016172	-0.110605083	13	6.03E+00	0.157107729
WBGene00271810	0.103589254	1	3.89E-01	-0.009223184

WBGene00016174	-0.182908919	15	2.62E+01	-0.011429271
WBGene00000613	-0.440140778	9	8.21E+01	-0.340170181
WBGene00001129	0.056219325	7	5.26E-01	0.127989354
WBGene00001594	1	13	8.03E-07	0.897195187
WBGene00003966	0.789822929	3	1.49E-02	1
WBGene00016175	0.839564732	7	8.03E-04	1
WBGene00017124	0.090931508	13	3.86E-01	0.451594762
WBGene00017125	0.471708991	11	4.27E-03	0.647637971
WBGene00017123	0.446443378	9	1.09E-02	1
WBGene00017126	0.761905532	8	8.36E-04	0.826726139
WBGene00017122	2	8	4.11E-10	2
WBGene00005134	0.401732931	2	1.23E-01	0.839334592
WBGene00005135	-0.085099873	4	1.07E+00	-0.235342875
WBGene00005136	-0.059135701	3	8.12E-01	0.192993753
WBGene00000971	-0.225517836	4	2.35E+00	-0.143830828
WBGene00017131	-0.101680184	8	2.30E+00	-0.419013612
WBGene00017127	-0.353660441	5	7.13E+00	-0.38219064
WBGene00017128	-0.519619409	4	1.22E+01	-0.280936226
WBGene00017129	-0.373889493	8	2.79E+01	0.080559019
WBGene00017130	0.001928923	1	5.23E-01	0.04860183
WBGene00000530	-0.338563324	20	1.93E+03	-0.235240061
WBGene00017970	-0.14609542	7	2.81E+00	0.206587851
WBGene00017969	-0.502730598	14	2.14E+03	-0.023617111
WBGene00000169	-0.165648995	6	2.64E+00	-0.146826776
WBGene00017968	-0.344401067	19	1.47E+03	-0.648968068
WBGene00004198	-0.012626099	2	5.97E-01	-0.000616825
WBGene00003078	-0.128781776	4	1.37E+00	0.286644762
WBGene00017967	-0.011126145	13	1.55E+00	0.410589102
WBGene00017971	-0.210568203	4	2.16E+00	0.00861517
WBGene00016276	-0.25924205	9	1.33E+01	-0.44072553
WBGene00016274	-0.493915904	7	5.00E+01	-0.533605483
WBGene00016277	-0.274478151	17	2.05E+02	-0.255456724
WBGene00004244	-0.713374962	14	4.57E+04	-0.290384034
WBGene00016273	0.157816657	6	2.42E-01	-0.148288715
WBGene00000839	-0.088296179	15	6.08E+00	0.545883408
WBGene00000271	0.149848824	16	1.46E-01	0.115693431
WBGene00018475	0.196975136	5	2.00E-01	0.401479279
WBGene00018474	-0.137506554	17	1.94E+01	-0.368838052
WBGene00018476	-0.126209891	2	9.21E-01	-0.408484849
WBGene00017662	-0.570347115	4	1.62E+01	-0.280218577
WBGene00017663	0.860951285	13	1.06E-05	0.605982897
WBGene00017664	-0.143968766	9	4.17E+00	-0.118857991
WBGene00003620	-0.05071223	38	5.74E+01	0.19302878
WBGene00002008	0.180766017	15	9.59E-02	0.519904199
WBGene00001812	0.003349854	11	1.10E+00	0.151790707
WBGene00018392	0.076043848	15	4.82E-01	-0.239060758
WBGene00018393	0.183829119	6	1.99E-01	-0.369281275

WBGene00018394	-0.219556124	22	3.12E+02	-1
WBGene00018397	-0.667139994	6	1.07E+02	-0.978715679
WBGene00018395	0.284493099	5	1.13E-01	0.773109272
WBGene00018391	0.735191429	3	1.93E-02	0.170123903
WBGene00018390	0.336504751	16	6.95E-03	0.391554899
WBGene00044673	-0.210271527	4	2.16E+00	0.431450852
WBGene00015569	0.099798743	7	3.67E-01	0.243152835
WBGene00015568	-0.396679788	6	1.45E+01	-0.003442432
WBGene00015567	-0.229846744	7	5.62E+00	0.635968862
WBGene00015566	-0.157911512	3	1.29E+00	0.424289569
WBGene00003526	-0.645790412	10	1.25E+03	-0.022435916
WBGene00005133	-0.192156008	8	5.28E+00	-0.428205352
WBGene00019290	0.270815739	5	1.24E-01	-0.181473927
WBGene00019289	-0.351139365	27	3.82E+04	-0.172986102
WBGene00005132	-0.685741948	7	2.45E+02	-0.340271156
WBGene00019288	-0.101324252	3	9.90E-01	-0.081756368
WBGene00021186	-0.726956688	54	2.32E+17	-1
WBGene00017022	-0.162444414	4	1.65E+00	0.402446484
WBGene00017023	-0.195811174	6	3.29E+00	0.463760433
WBGene00017024	-0.0405202	6	1.05E+00	0.085984107
WBGene00017021	0.011777211	2	5.44E-01	0.020945254
WBGene00005641	0.057987079	7	5.19E-01	0.021913029
WBGene00000101	0.22121376	35	4.67E-03	0.367312083
WBGene00006703	0.299348768	2	1.82E-01	0.431519383
WBGene00000280	0.229096491	10	8.59E-02	0.212282685
WBGene00044300	0.45312862	5	3.79E-02	0.413794217
WBGene00003542	0.07909798	4	4.26E-01	0.04088038
WBGene00019998	-0.141359465	4	1.47E+00	0.062598692
WBGene00023416	-0.673300823	4	2.88E+01	0.526166763
WBGene00019999	-0.037843013	6	1.03E+00	0.357917176
WBGene00016183	-0.034124963	5	8.96E-01	-0.235304625
WBGene00016184	-0.347051933	32	2.38E+05	-0.358847128
WBGene00016185	-0.449847454	16	2.59E+03	-0.36895022
WBGene00044775	-0.33761877	3	3.01E+00	-0.308922649
WBGene00022889	-0.482010835	2	3.58E+00	-0.234384195
WBGene00022888	-0.808894927	18	4.48E+06	-0.591691898
WBGene00022887	-0.125991523	4	1.35E+00	0.152835756
WBGene00006947	-0.497445716	11	4.15E+02	-1
WBGene00006956	-0.416134915	8	4.12E+01	-0.643158333
WBGene00022893	-0.561453782	5	2.75E+01	-0.378594912
WBGene00003592	0.103279401	14	3.22E-01	0.090845843
WBGene00004398	-0.724849833	8	6.99E+02	-0.632660528
WBGene00022890	-0.988686464	13	9.55E+05	-2
WBGene00006600	-0.84207853	12	5.64E+04	-0.844679449
WBGene00022891	-0.253446425	4	2.75E+00	0.036521431
WBGene00044396	-1	5	2.20E+03	-0.84202423
WBGene00022892	-0.411956758	4	6.67E+00	-0.515175579

WBGene00022886	-0.063638501	2	7.25E-01	-0.01952296
WBGene00018041	0	3	6.15E-01	-0.001580887
WBGene00018040	-1	9	1.02E+06	-2
WBGene00018039	-0.962821461	15	4.37E+06	-0.771960849
WBGene00194916	-1	12	1.25E+06	-0.688234342
WBGene00018042	-0.59729968	18	9.74E+04	-0.042826434
WBGene00006363	0.598621462	30	1.61E-07	0.616280595
WBGene00019941	-0.074469272	11	2.76E+00	-0.14149256
WBGene00019940	0.272066001	44	1.94E-04	0.045891701
WBGene00003888	0.04606052	9	6.16E-01	-0.343363321
WBGene00019939	0.016847211	7	7.29E-01	-0.016963414
WBGene00019943	0.187990239	10	1.35E-01	0.149139945
WBGene00043050	0.506784124	4	3.89E-02	-0.24366983
WBGene00000390	0.312738184	8	5.14E-02	0.244855171
WBGene00019944	0.319183216	9	3.94E-02	-0.219080947
WBGene00020114	0.467619946	71	6.21E-12	0.423506892
WBGene00017547	0.075887371	19	5.03E-01	-0.272307467
WBGene00017548	-0.603793943	6	6.71E+01	-0.940399261
WBGene00017546	0.473040764	11	4.20E-03	-0.237232021
WBGene00003045	0.068973799	11	5.05E-01	0.496060106
WBGene00003044	0.388630277	32	3.99E-05	0.270357214
WBGene00003012	0.650806649	9	1.40E-03	0.370486631
WBGene00017545	-0.789148322	31	8.15E+10	-0.83515242
WBGene00017549	-0.032109602	4	7.95E-01	-0.049048745
WBGene00003730	-0.348671563	7	1.50E+01	-0.241078636
WBGene00015204	-0.08627444	16	6.88E+00	-0.149430612
WBGene00015205	-0.090820822	2	8.04E-01	-0.083857176
WBGene00015203	-0.139491135	19	3.00E+01	0.053465546
WBGene00015206	0.23407154	18	2.84E-02	0.364794926
WBGene00015207	0.457636082	14	1.87E-03	-0.06130803
WBGene00015208	0.177461617	4	2.46E-01	0.217321809
WBGene00005149	0.219330635	6	1.53E-01	0.335828875
WBGene00007044	0.462180604	20	2.34E-04	0.335771014
WBGene00015061	0.505518531	111	1.67E-19	0.491865406
WBGene00015062	0.724453764	5	6.50E-03	1
WBGene00015063	0.536010485	3	4.93E-02	0.715746487
WBGene00015059	2	4	1.18E-04	1
WBGene00015064	0.992893415	6	5.07E-04	1
WBGene00015065	-0.037119272	4	8.18E-01	0.195695424
WBGene00015066	-0.305253082	10	3.00E+01	-0.547315122
WBGene00005262	-0.506693975	7	5.56E+01	-0.166356133
WBGene00015517	-0.040567547	14	2.60E+00	-0.038783463
WBGene00015516	0.009739142	6	7.22E-01	-0.235468415
WBGene00015512	-0.389400191	24	2.90E+04	-0.195547417
WBGene00015513	0.224523561	8	1.16E-01	-0.056466512
WBGene00015515	0.210481398	8	1.31E-01	-0.002326263
WBGene00004823	-0.285741952	5	4.59E+00	0.031521104

WBGene00001615	0.119199797	36	1.35E-01	0.278025887
WBGene00015514	-0.244565646	3	1.94E+00	0.031852615
WBGene00000516	-0.086110898	6	1.47E+00	0.093220377
WBGene00000517	-0.072362456	7	1.53E+00	-0.198324513
WBGene00011458	-1	7	1.53E+04	-0.568650213
WBGene00005809	-0.956465022	7	2.30E+03	0.07734253
WBGene00011640	0.980463765	2	1.35E-02	0.305276581
WBGene00023408	0.224110603	15	4.92E-02	0.173719013
WBGene00002216	0.674402896	11	3.87E-04	0.559050693
WBGene00000046	0.112646989	18	2.56E-01	0.153782867
WBGene00011633	0.05289816	5	5.09E-01	0.070238995
WBGene00011634	-0.496972138	6	3.05E+01	-0.171342749
WBGene00007014	0.055106303	9	5.62E-01	-0.4378126
WBGene00011635	-0.55246717	6	4.59E+01	-0.782671787
WBGene00011636	0.190578377	5	2.08E-01	-0.061477932
WBGene00011641	0.41217383	6	3.69E-02	-0.087554798
WBGene00011637	0.22901618	6	1.43E-01	0.109628271
WBGene00002994	0.223873395	13	6.30E-02	0.225713696
WBGene00011638	0.389474689	10	1.48E-02	0.40211873
WBGene00011639	0.534858672	11	2.02E-03	0.578928009
WBGene00011349	0.17763992	10	1.51E-01	0.12675847
WBGene00011348	0.310253648	18	7.16E-03	0.431934719
WBGene00006913	-0.044004513	7	1.21E+00	0.313061561
WBGene00011351	-0.039896745	2	6.62E-01	-0.024052689
WBGene00011350	-0.276682315	7	8.28E+00	0.315128429
WBGene00004208	1	44	5.99E-19	0.953886777
WBGene00014066	0.241514672	16	3.27E-02	0.55350597
WBGene00014989	0.413349212	10	1.14E-02	0.279490255
WBGene00014067	0.504991671	3	5.70E-02	0.368005887
WBGene00014051	0.25131161	50	1.89E-04	0.31016156
WBGene00014052	-0.071297424	12	3.06E+00	-0.353905218
WBGene00014053	0.096153639	4	3.88E-01	0.093205146
WBGene00014054	0.106800009	8	3.40E-01	0.050499207
WBGene00014055	-0.091031776	5	1.30E+00	0.182375424
WBGene00007311	-0.578390482	8	1.82E+02	-0.867453637
WBGene00008438	0.666478875	60	4.13E-15	0.786122833
WBGene00004005	-0.373794967	15	4.96E+02	-0.080729181
WBGene00008435	-0.841701202	18	8.12E+06	-0.496262575
WBGene00008436	0.016876651	9	8.26E-01	0.293558227
WBGene00006996	-0.083823585	10	2.65E+00	0.446943325
WBGene00001835	0.09704822	8	3.72E-01	0.146117281
WBGene00007433	0.549112105	16	2.17E-04	0.398086609
WBGene00003813	-0.197152768	16	4.20E+01	-0.255849582
WBGene00004723	0.47930301	7	1.58E-02	0.139444715
WBGene00007434	0.356930495	11	1.66E-02	-0.472875638
WBGene00007436	0.621720668	6	7.86E-03	-0.154851026
WBGene00006724	0.282593253	5	1.15E-01	0.199022255

WBGene00007435	0.202914811	8	1.41E-01	0.138645368
WBGene00011507	0.243340716	24	1.04E-02	-0.023222728
WBGene00000151	0.165964996	9	1.84E-01	-0.044504497
WBGene00011508	-0.054253546	6	1.16E+00	-0.059688829
WBGene00011509	-0.272371024	11	2.88E+01	-0.532043844
WBGene00011512	0.032093224	8	6.75E-01	0.453110076
WBGene00006734	0.009561044	19	1.77E+00	0.072627286
WBGene00011510	0.103357919	4	3.72E-01	0.155699668
WBGene00011511	0.60434463	23	3.47E-06	0.47562022
WBGene00010501	2	3	3.72E-05	2
WBGene00010503	0.488561686	13	1.71E-03	0.314594854
WBGene00010502	0.344658195	23	1.22E-03	0.267399248
WBGene00003089	-0.100487927	19	1.43E+01	0.455645566
WBGene00005150	0.384322436	10	1.57E-02	0.442713263
WBGene00044049	0.54108907	6	1.43E-02	0.88192593
WBGene00008050	2	4	1.53E-05	2
WBGene00008054	0.46174181	5	3.58E-02	0.28698015
WBGene00008051	0.065119532	11	5.28E-01	0.439643652
WBGene00002147	0.421534698	46	2.22E-07	0.117028477
WBGene00006832	0.409255216	23	2.83E-04	0.14300512
WBGene00006739	1	16	4.27E-08	0.79447498
WBGene00008052	0.541430448	6	1.42E-02	0.350544463
WBGene00008053	0.470617162	19	2.79E-04	0.261462892
WBGene00008642	0.2005546	14	7.83E-02	0.310810126
WBGene00004421	2	4	7.83E-05	0.439992235
WBGene00008639	0.971379821	12	5.20E-06	0.982879235
WBGene00008640	-0.124752807	11	5.01E+00	0.261061133
WBGene00006655	-0.376251248	6	1.25E+01	0.419795264
WBGene00008643	-0.45305747	2	3.20E+00	0.161201359
WBGene00008641	0.0883055	4	4.05E-01	0.171503757
WBGene00001281	0.167560908	12	1.46E-01	0.090243962
WBGene00004510	-0.114472276	32	1.93E+02	-0.245420389
WBGene00011473	-0.024212437	5	8.40E-01	0.186578142
WBGene00219289	0.030325596	1	4.82E-01	0.027035702
WBGene00011467	-0.361515713	8	2.49E+01	-0.207874914
WBGene00011466	-0.02744068	1	5.70E-01	0.031171809
WBGene00000053	-0.654861627	7	1.90E+02	-0.280251104
WBGene00011468	-0.832856235	11	2.21E+04	-0.632429064
WBGene00011469	-0.446774907	2	3.13E+00	0.118086041
WBGene00003241	0.017038406	13	1.06E+00	-0.086315642
WBGene00000377	0.603279622	10	1.42E-03	0.133013672
WBGene00011471	-0.005880676	14	1.57E+00	6.36E-05
WBGene00011472	-0.001256767	2	5.72E-01	0.003675246
WBGene00004264	-0.527841744	33	1.04E+08	-0.636496555
WBGene00000652	-0.11300707	6	1.79E+00	-0.143484282
WBGene00010916	-0.01089813	2	5.93E-01	-0.000852861
WBGene00006658	-0.010699808	3	6.46E-01	-0.054864645

WBGene00195142	0.144037053	4	2.96E-01	0.060580231
WBGene00010913	0.400775351	2	1.23E-01	0.156014148
WBGene00002066	0.739024861	21	5.32E-07	0.797039601
WBGene00000894	0.043638525	13	7.36E-01	-0.214166896
WBGene00010917	-0.072667832	4	9.98E-01	-0.098048931
WBGene00010915	-0.751587952	15	1.68E+05	-0.816277782
WBGene00003743	-0.148071479	14	1.24E+01	-0.03163018
WBGene00009401	-0.905932348	16	4.41E+06	-0.640649761
WBGene00009402	-1	9	1.14E+05	-0.75293679
WBGene00009403	-0.197323836	10	9.19E+00	-0.29930781
WBGene00009404	-0.647020252	7	1.78E+02	-0.255028042
WBGene00009406	-1	7	1.50E+05	-1
WBGene00009405	-0.280112263	6	6.14E+00	-0.170091998
WBGene00010456	-0.230568844	15	5.45E+01	-0.288657349
WBGene00010457	0.160360525	6	2.37E-01	-0.091988655
WBGene00006562	0.228312391	18	3.15E-02	-0.459347573
WBGene00001571	0.078412601	19	4.79E-01	-0.113504249
WBGene00010459	0.449814897	4	5.35E-02	0.743944715
WBGene00010458	1	5	9.05E-05	1
WBGene00010460	0.323793761	5	8.77E-02	0.468153552
WBGene00003821	0.537735297	7	9.77E-03	0.01629469
WBGene00000379	0.480139326	12	2.72E-03	0.503459194
WBGene00008820	0.085249715	2	4.11E-01	0.003621285
WBGene00008819	0.049586963	36	1.46E+00	0.122114792
WBGene00004304	0.150887459	10	2.02E-01	0.91874496
WBGene00007744	0.523058908	20	6.98E-05	0.547215109
WBGene00001840	0.665089311	6	5.70E-03	0.666372174
WBGene00007745	-0.174374257	15	2.29E+01	0.370227637
WBGene00023420	-0.194950748	10	8.95E+00	-0.093793973
WBGene00001159	0.441363828	11	6.12E-03	0.233537405
WBGene00007746	0.76230671	19	1.10E-06	1
WBGene00000653	-0.154907133	4	1.58E+00	-0.222970637
WBGene00010948	-0.50375043	8	9.19E+01	-0.27544524
WBGene00000135	-0.23436559	20	2.43E+02	-0.277517222
WBGene00010949	-0.0704744	1	6.47E-01	-0.009168596
WBGene00009904	-0.099709743	6	1.62E+00	-0.062428647
WBGene00009902	-0.27280939	3	2.22E+00	-0.122241357
WBGene00009903	-0.514873824	4	1.19E+01	-0.151305945
WBGene00009901	-1	11	2.72E+05	-0.546636257
WBGene00009900	-0.007651099	2	5.86E-01	0
WBGene00009898	-0.161124102	3	1.31E+00	-0.034185128
WBGene00009897	-0.168664008	13	1.33E+01	-0.069211329
WBGene00006719	-0.905709437	4	1.06E+02	-0.647837162
WBGene00005039	-0.274135134	6	5.87E+00	-0.557984082
WBGene00009899	-0.035482879	15	2.69E+00	-0.143648313
WBGene00008799	-0.37849808	5	8.38E+00	-0.346740261
WBGene00195147	-0.980562083	8	7.29E+03	-0.379943391

WBGene00008800	0.09812188	22	3.20E-01	0.166850394
WBGene00008802	-0.200050088	10	9.47E+00	0.101407348
WBGene00008804	-0.377810109	9	4.39E+01	0.03409281
WBGene00008801	-0.427479353	8	4.57E+01	0.329785899
WBGene00008803	0.273437342	18	1.39E-02	0.515363263
WBGene00001230	0.86651327	3	1.04E-02	0.676626429
WBGene00001358	0.572536694	7	7.32E-03	0.235188499
WBGene00009041	0.179776853	8	1.74E-01	0.331562892
WBGene00009042	0.188267328	7	1.76E-01	-0.405792731
WBGene00009043	0.111320048	4	3.56E-01	0.037177484
WBGene00009044	-0.061529949	2	7.19E-01	0.104334118
WBGene00006994	0.335642194	26	7.65E-04	0.590817689
WBGene00001498	-0.151907406	6	2.38E+00	0.320231949
WBGene00009045	0.272115901	4	1.45E-01	0.004444901
WBGene00010875	0.345772756	11	1.90E-02	0.47153193
WBGene00010880	-0.24533683	4	2.62E+00	-0.010221354
WBGene00010874	-1	11	2.61E+05	-0.465268007
WBGene00010876	-0.15944458	17	2.83E+01	-0.205138333
WBGene00010877	-0.131830416	9	3.69E+00	-0.013367651
WBGene00010878	0.294164722	6	8.83E-02	0.274003886
WBGene00010879	0.429848584	3	8.12E-02	0.225914736
WBGene00001523	0.389931738	9	1.93E-02	0.393060447
WBGene00011755	0.224622732	47	9.52E-04	0.189883372
WBGene00010881	0.26836794	4	1.48E-01	0.444962376
WBGene00011756	-0.046394259	11	1.98E+00	-0.065280729
WBGene00004383	0.767167217	9	4.34E-04	0.109214354
WBGene00011761	-0.319464473	6	8.21E+00	-0.038729846
WBGene00011757	-0.314366565	17	4.06E+02	-0.295116191
WBGene00011758	0.148218507	8	2.33E-01	0.090528243
WBGene00011759	-0.231128719	3	1.82E+00	0.21442236
WBGene00011760	-0.526444521	20	8.07E+04	0.081877066
WBGene00012175	0.067070456	4	4.56E-01	0.120029254
WBGene00012176	-0.941611965	12	2.01E+05	-0.586880392
WBGene00004155	-0.142079536	13	9.26E+00	-0.269439781
WBGene00012177	2	6	2.52E-07	2
WBGene00012178	0.276746197	22	6.66E-03	0.26033755
WBGene00002065	0.654739292	8	2.23E-03	0.234200361
WBGene00175035	0.511831333	6	1.77E-02	0.644253257
WBGene00006059	-0.38353305	8	3.05E+01	0.173061102
WBGene00010041	0.071274808	1	4.27E-01	-0.075383328
WBGene00000615	0.307468371	6	8.00E-02	0.073513264
WBGene00004416	2	8	5.60E-07	0.379883011
WBGene00010042	1	9	2.12E-06	0.980559503
WBGene00010043	-0.197297492	9	7.13E+00	0.209013446
WBGene00004241	0.338181612	17	5.41E-03	-0.645710194
WBGene00010044	0.267241665	9	6.65E-02	0.13453505
WBGene00000187	0.531970035	6	1.52E-02	1

WBGene00010045	0.926299999	7	3.92E-04	0.732797649
WBGene00009202	-0.058003299	6	1.19E+00	0.068545185
WBGene00009203	-0.33942025	7	1.39E+01	-0.05191146
WBGene00009204	0.428733373	13	3.86E-03	0.256975973
WBGene00009205	1	2	8.91E-03	1
WBGene00000773	0.532772485	12	1.39E-03	0.46885526
WBGene00004440	0.974683125	4	2.83E-03	0.495638325
WBGene00006307	0.810792737	14	1.10E-05	0.791343821
WBGene00009207	0.167362123	6	2.25E-01	1
WBGene00009209	0.333253638	8	4.26E-02	0.166373201
WBGene00009208	-0.520249578	6	3.62E+01	-0.572492226
WBGene00011922	-0.933574706	9	1.18E+04	-0.812100332
WBGene00011923	-0.591089803	11	1.26E+03	-0.205007631
WBGene00011924	-0.228999151	5	3.18E+00	-0.062325782
WBGene00011925	-0.214013516	3	1.68E+00	-0.302814655
WBGene00011926	-0.305872303	8	1.50E+01	-0.130126365
WBGene00011927	-0.803935001	11	1.57E+04	-0.638153864
WBGene00011928	-0.178075776	9	5.87E+00	-0.160704843
WBGene00006875	0.607718613	5	1.39E-02	0.141034279
WBGene00008432	0.578592813	3	4.03E-02	0.03641061
WBGene00004259	0.151311787	44	2.85E-02	-0.217202885
WBGene00008427	0.669794219	6	5.51E-03	-0.04081121
WBGene00008431	-0.16559478	12	1.02E+01	-0.164978728
WBGene00008428	0.235203851	10	8.04E-02	0.307999761
WBGene00008429	0.219640819	19	3.28E-02	0.261734464
WBGene00008430	0.064356549	54	1.26E+00	0.179991005
WBGene00194940	-0.167272303	1	8.58E-01	0.159164071
WBGene00007916	-0.803836199	15	3.77E+05	-0.374914506
WBGene00206355	-0.737792802	5	8.64E+01	-0.703385269
WBGene00007917	0.91519642	16	5.52E-07	0.218324059
WBGene00007918	0.490765087	11	3.41E-03	0.113533961
WBGene00000432	-0.629890927	2	6.29E+00	-0.407165877
WBGene00004194	-0.540204276	8	1.28E+02	-0.673801588
WBGene00007919	-0.738317992	9	1.65E+03	-0.051933221
WBGene00005172	-0.907875074	7	1.54E+03	-0.784738649
WBGene00004279	-0.119865918	6	1.88E+00	0.431204122
WBGene00000887	0.035149698	5	5.71E-01	0.304355056
WBGene00206502	0.005792814	1	5.18E-01	0.310943829
WBGene00011311	-0.069048252	13	3.42E+00	0.129482014
WBGene00011312	0.272537854	15	2.33E-02	0.603544448
WBGene00011314	0.177201621	4	2.46E-01	0.095960548
WBGene00004397	-0.069995196	3	8.55E-01	-0.308986144
WBGene00011313	-0.011418831	1	5.44E-01	0.034672436
WBGene00010681	0.042026216	15	8.15E-01	-0.319863733
WBGene00000220	-0.541826352	7	7.44E+01	-0.298269952
WBGene00010683	-0.94896835	3	5.36E+01	-0.507305242
WBGene00001505	-0.04169555	4	8.39E-01	-0.167348627

WBGene00000240	-0.767054473	25	4.37E+08	-0.483377088
WBGene00303068	-1	2	2.89E+01	-0.193769867
WBGene00010682	-0.406916542	8	3.78E+01	-0.438392972
WBGene00002295	0.34098848	30	2.70E-04	0.295540309
WBGene00004790	-0.065088343	8	1.65E+00	0.131007871
WBGene00008563	-0.388567599	6	1.37E+01	-0.750493821
WBGene00008557	0.038002813	2	4.92E-01	0.24450914
WBGene00008558	0.414013812	5	4.88E-02	0.727980672
WBGene00008559	-0.702496395	16	1.60E+05	-0.859617018
WBGene00008560	-1	14	6.14E+08	-1
WBGene00008561	-0.054891243	12	2.49E+00	-0.053406855
WBGene00009784	-0.10604101	8	2.40E+00	0.151985417
WBGene00009783	0.399552473	6	4.05E-02	0.447363073
WBGene00009785	-0.024261246	3	6.89E-01	-0.68318592
WBGene00009778	-0.222383189	7	5.28E+00	-0.439714833
WBGene00003544	-0.234379022	17	1.03E+02	-0.275727803
WBGene00009779	1	3	1.83E-03	1
WBGene00009780	0.245332678	13	4.70E-02	0.561827345
WBGene00009782	0.903804555	4	4.21E-03	0.345754981
WBGene00009781	0.301055071	19	6.98E-03	-0.061137144
WBGene00011767	0.23503096	12	6.18E-02	0.174178928
WBGene00011768	-0.33767318	14	1.95E+02	-0.159472938
WBGene00044062	-0.073872641	4	1.00E+00	0.765494778
WBGene00011578	1	17	1.00E-08	1
WBGene00011579	-0.005113662	12	1.32E+00	0.00212782
WBGene00004355	0.277074455	25	3.98E-03	0.141657499
WBGene00045407	0.64188562	3	2.99E-02	0.261623247
WBGene00011580	0.371631365	26	3.08E-04	0.013110682
WBGene00002251	-0.130615462	33	3.84E+02	-0.188217992
WBGene00007179	-0.812260107	6	3.13E+02	-0.274660703
WBGene00007180	0.114150861	10	3.03E-01	0.51354799
WBGene00007178	-0.278702115	11	3.11E+01	-0.583963993
WBGene00000378	0.59248635	15	1.68E-04	-0.361822288
WBGene00011883	0.179960722	8	1.74E-01	-0.352455269
WBGene00011884	0.622972208	14	1.69E-04	0.115649774
WBGene00011885	0.435107971	24	1.16E-04	0.24280748
WBGene00011887	0.530208546	7	1.04E-02	0.592601814
WBGene00011886	0.254709481	8	8.76E-02	-0.1377311
WBGene00011888	0.199305652	15	7.21E-02	0.130330841
WBGene00007690	0.736774789	24	9.78E-08	0.534088281
WBGene00000286	2	5	2.02E-05	2
WBGene00007684	0.351956693	5	7.30E-02	0.433464253
WBGene00007683	0.353052987	2	1.48E-01	-0.000555966
WBGene00004105	0.403778966	9	1.68E-02	0.020972859
WBGene00007685	-0.232830888	9	1.02E+01	0.419380045
WBGene00007686	0.057019273	3	4.70E-01	-0.030028512
WBGene00007687	-1	17	2.49E+08	-0.834147512

WBGene00007688	-0.609587614	11	1.57E+03	-0.650291443
WBGene00007689	-0.005465426	2	5.81E-01	-0.014178425
WBGene00003870	0.163451056	6	2.32E-01	0.408436057
WBGene00009711	-0.144444639	3	1.21E+00	0.604715359
WBGene00009712	-0.685225156	4	3.08E+01	0.181515822
WBGene00009713	0.020763542	3	5.57E-01	-0.094656346
WBGene00006514	0.631708904	7	4.49E-03	0.120020116
WBGene00009714	0.013979686	3	5.75E-01	-0.119260236
WBGene00009715	-0.042452831	3	7.51E-01	-0.175582673
WBGene00009716	0.07247446	8	4.66E-01	0.052713956
WBGene00009717	-0.100843187	39	4.11E+02	0.190266934
WBGene00009504	-0.485836975	7	4.68E+01	-0.382892445
WBGene00001527	-0.245174147	15	6.83E+01	-0.284776377
WBGene00009505	0.535016419	7	9.99E-03	0.289762585
WBGene00011980	0.175533888	69	1.44E-03	0.145656197
WBGene00011976	0.941476004	10	3.50E-05	0.706720339
WBGene00004446	2	4	3.75E-05	0.859706188
WBGene00011977	0.98471366	8	1.08E-04	0.378458032
WBGene00011978	0.674200202	22	1.21E-06	0.471530192
WBGene00011979	0	1	5.26E-01	-0.014776309
WBGene00001950	-0.413228675	5	1.05E+01	-0.857916818
WBGene00007421	0.095235336	6	3.84E-01	0.118273583
WBGene00000532	0.286409721	15	1.88E-02	0.166510304
WBGene00012000	0.015375973	3	5.72E-01	0.079005295
WBGene00012003	0.21108463	22	2.76E-02	-0.162686387
WBGene00012004	0.557355221	3	4.46E-02	0.185113212
WBGene00001041	0.535750835	5	2.21E-02	0.636142044
WBGene00012002	0.233357766	7	1.21E-01	0.155206441
WBGene00012005	-0.27154019	46	2.08E+06	-0.084867873
WBGene00007633	-0.642277771	6	8.91E+01	-0.093911177
WBGene00195143	-0.58120118	3	9.48E+00	-0.399813075
WBGene00195144	-1	4	5.79E+02	-0.529289408
WBGene00012421	-0.226178379	11	1.67E+01	0.110241556
WBGene00012322	-0.487197898	21	6.18E+04	0.127610615
WBGene00000654	-0.74347219	9	1.74E+03	-0.584793403
WBGene00012323	-0.28878548	13	6.84E+01	-0.114680639
WBGene00012324	0.078333567	10	4.48E-01	0.487975071
WBGene00012325	-0.031786573	13	2.06E+00	0.078691253
WBGene00011966	0.046961126	4	5.11E-01	0.051933245
WBGene00011965	0.320254772	20	3.94E-03	0.268497485
WBGene00001061	0.45268286	8	1.42E-02	0.125725538
WBGene00004752	-0.308339323	19	7.42E+02	0.083222707
WBGene00011967	0.083304223	5	4.18E-01	-0.083224429
WBGene00006367	-0.290058862	23	2.01E+03	-0.021717653
WBGene00006659	-0.231181656	28	2.21E+03	-0.223781246
WBGene00002299	-0.353251049	20	2.58E+03	-0.179497285
WBGene00014210	0.674447478	7	3.15E-03	0.967665567

WBGene00014208	-0.018611675	31	9.36E+00	0.078116607
WBGene00014209	-0.25324018	10	1.70E+01	-0.168091711
WBGene00004174	-1	7	8.28E+03	-1
WBGene00001761	-0.001774278	2	5.73E-01	-0.220183588
WBGene00012032	-0.220606803	15	4.68E+01	-0.67227553
WBGene00012033	-0.058540826	31	3.06E+01	0.04212117
WBGene00012035	-0.08601151	3	9.22E-01	0.019462659
WBGene00012034	0.408579993	7	2.85E-02	0.179115525
WBGene00044006	-0.178954286	14	1.94E+01	-0.391488245
WBGene00000170	1	11	1.52E-06	0.985446741
WBGene00007224	0.00192873	4	6.57E-01	-0.677205149
WBGene00007225	-0.346766943	8	2.18E+01	-0.589398398
WBGene00007226	-0.189796847	5	2.46E+00	-0.028728379
WBGene00007227	0.793817703	19	6.02E-07	0.731670736
WBGene00006510	0.350403458	16	5.54E-03	-0.102825846
WBGene00007228	-0.661271899	8	3.90E+02	-0.392133861
WBGene00007229	0.352968415	7	4.51E-02	0.517612557
WBGene00000289	0.625338836	44	8.91E-11	0.355635968
WBGene00008403	0.187619059	13	1.03E-01	-0.086689375
WBGene00008402	0.0996338	9	3.59E-01	-0.302339334
WBGene00004286	-0.054304787	2	7.00E-01	0.403789052
WBGene00006520	-0.020320546	5	8.19E-01	-0.066433977
WBGene00001134	0.613229486	27	4.33E-07	0.377994505
WBGene00008404	0.576527357	4	2.63E-02	1
WBGene00001229	0.341500839	7	4.96E-02	0.474010825
WBGene00004744	0.454284008	18	5.28E-04	0.560656649
WBGene00008405	0.27195197	14	2.77E-02	0.350000669
WBGene00009626	-0.4445386	20	1.58E+04	-0.525825288
WBGene00006433	0.023985759	9	7.69E-01	-0.030693088
WBGene00009627	-0.389550174	9	4.93E+01	-0.218872424
WBGene00003196	0.068044507	29	6.90E-01	0.261861311
WBGene00007374	-0.235888181	13	3.33E+01	-0.02368202
WBGene00007375	-0.35435744	5	7.17E+00	-0.159116174
WBGene00175031	-0.408992444	6	1.59E+01	-0.519712318
WBGene00044169	-0.157992187	3	1.29E+00	-0.061602434
WBGene00014668	-0.114126809	4	1.26E+00	0.045634676
WBGene00005271	-0.120823159	9	3.30E+00	-0.058693243
WBGene00007377	-0.248277653	3	1.98E+00	-0.230294788
WBGene00007378	-0.32056175	16	3.14E+02	-0.388368263
WBGene00013091	0.17957354	14	1.06E-01	0.047089981
WBGene00206481	-0.340493289	4	4.47E+00	-0.361604185
WBGene00013090	-0.429296722	8	4.64E+01	-0.196881342
WBGene00013089	-0.390046179	3	3.86E+00	-0.133968849
WBGene00013088	-0.150948967	11	6.84E+00	-0.279561995
WBGene00013087	-0.082470051	3	9.06E-01	-0.013788136
WBGene00013085	-0.540370532	10	3.94E+02	-0.567352147
WBGene00013086	-0.456739447	9	9.70E+01	-0.366244961

WBGene00014813	-0.363243613	13	1.89E+02	-0.452465112
WBGene00006429	-0.112361156	6	1.78E+00	0.103192069
WBGene00010941	0.225041909	11	7.94E-02	0.133091675
WBGene00010942	0.064157037	2	4.45E-01	0.17121749
WBGene00303071	0.262410846	1	2.44E-01	0.818953572
WBGene00010943	0.254247072	6	1.19E-01	0.266978673
WBGene00010947	0.185225692	5	2.16E-01	0.602886338
WBGene00010946	-0.247136957	12	2.88E+01	-0.649606565
WBGene00010944	0.037994917	5	5.61E-01	0.273502565
WBGene00002199	0.05644816	12	6.01E-01	-0.146978003
WBGene00002200	-0.259173661	14	6.22E+01	-0.384132674
WBGene00010945	-0.414122947	5	1.06E+01	-0.368593691
WBGene00011159	-0.569245331	8	1.68E+02	-0.50472362
WBGene00011158	-0.192230816	6	3.21E+00	-0.03569586
WBGene00011157	-0.226417888	6	4.13E+00	0
WBGene00011169	0	5	7.18E-01	-0.000160869
WBGene00011161	-0.29244612	8	1.32E+01	-0.11320006
WBGene00011168	-0.190846756	8	5.21E+00	-0.224143717
WBGene00011162	-0.176121751	5	2.25E+00	0.014001555
WBGene00011163	-0.334136553	5	6.28E+00	-0.126820257
WBGene00011170	0.12504128	2	3.53E-01	-0.01613583
WBGene00011164	-0.202096353	8	5.78E+00	-0.070983877
WBGene00011166	-0.004758632	5	7.40E-01	-0.011742942
WBGene00011167	-0.033834352	6	9.96E-01	-0.156174346
WBGene00044807	-0.58579457	3	9.69E+00	-0.220552125
WBGene00011846	-1	7	1.50E+04	-0.35372649
WBGene00011847	-0.587927824	5	3.27E+01	-0.199604999
WBGene00011848	-0.985692004	6	1.13E+03	-0.751697233
WBGene00045414	-0.743411976	2	9.70E+00	-0.577434641
WBGene00011849	0.287990718	10	4.51E-02	-0.339851878
WBGene00001530	-0.525018702	26	2.08E+06	-0.727432103
WBGene00001529	-0.082237093	13	4.09E+00	-0.217083093
WBGene00001528	-0.174094119	15	2.28E+01	-0.200904492
WBGene00007080	-0.008213539	5	7.57E-01	0.036584693
WBGene00007081	-0.591627298	5	3.35E+01	-0.226234013
WBGene00005027	-0.231467922	4	2.43E+00	-0.011376235
WBGene00219290	-0.044325117	2	6.74E-01	-0.292830173
WBGene00003231	-0.202879376	8	5.82E+00	-0.196226259
WBGene00005028	-0.029502134	5	8.69E-01	0.205010305
WBGene00005035	-0.207751748	5	2.77E+00	0.003318679
WBGene00005034	-0.086616871	7	1.72E+00	-0.230266727
WBGene00005029	-0.051729114	4	8.87E-01	0.051922704
WBGene00005030	0.095824912	4	3.88E-01	-0.008078768
WBGene00005033	-0.198746787	5	2.61E+00	0.183814341
WBGene00005032	-0.443523725	5	1.28E+01	-0.118832955
WBGene00219291	-0.017979421	2	6.09E-01	-0.003142103
WBGene00009446	-0.403534003	2	2.65E+00	-0.458777238

WBGene00009447	-0.006438262	7	8.84E-01	0.241174859
WBGene00009448	0.363156633	6	5.30E-02	0.307073298
WBGene00009449	0.352533894	3	1.17E-01	0.819213011
WBGene00001368	0.9327323	14	1.88E-06	0.783826782
WBGene00006938	-0.14388697	6	2.24E+00	-0.114416241
WBGene00009450	-0.202538152	5	2.67E+00	-0.192603298
WBGene00008456	-0.015109606	9	1.14E+00	-0.014855354
WBGene00008455	-0.086859341	4	1.08E+00	-0.074465293
WBGene00006473	-0.117338218	6	1.85E+00	0.498251002
WBGene00004050	0.081981152	7	4.25E-01	0.507735851
WBGene00008457	0.135579084	6	2.85E-01	-0.268490917
WBGene00008458	0.169023995	6	2.23E-01	-0.186542459
WBGene00008459	-0.525610289	3	7.30E+00	-0.311460651
WBGene00003618	0.198597068	24	2.97E-02	0.17385032
WBGene00011791	-0.833280332	17	3.07E+06	-1
WBGene00011790	-0.027750116	2	6.32E-01	-0.069243385
WBGene00011789	-0.578985674	9	3.32E+02	-0.502655081
WBGene00001952	-0.256996495	4	2.80E+00	-0.041672883
WBGene00011788	-0.412552119	7	2.55E+01	-0.335616639
WBGene00001038	0.497006666	28	6.26E-06	0.112319924
WBGene00014249	0.508031888	7	1.25E-02	0.027246092
WBGene00014248	-0.371577125	8	2.74E+01	-0.179633003
WBGene00001510	0.006801333	16	1.51E+00	0.343079479
WBGene00005026	0.010822378	10	9.39E-01	0.324249968
WBGene00014250	-0.080387702	10	2.55E+00	0.057111794
WBGene00014247	-0.237437033	6	4.48E+00	-0.237812214
WBGene00014246	-0.685969637	7	2.45E+02	-0.898360023
WBGene00014245	0.236744213	2	2.31E-01	-0.34637578
WBGene00014244	-0.315911581	5	5.58E+00	-0.48507195
WBGene00014251	-0.814572119	7	7.11E+02	-0.855189106
WBGene00014252	-0.444726495	5	1.29E+01	-0.562217389
WBGene00014253	-0.391510719	4	5.95E+00	-0.154547882
WBGene00014254	-0.966412612	5	3.81E+02	-0.853880409
WBGene00014255	-0.593692387	12	2.38E+03	-0.679180558
WBGene00014259	0.252767919	6	1.20E-01	0.516287785
WBGene00006390	-0.073483346	6	1.33E+00	0.183310853
WBGene00014256	0.421823514	8	1.89E-02	-0.1148559
WBGene00000180	-0.390862229	15	6.46E+02	-0.023733917
WBGene00044007	0.127021758	5	3.15E-01	0.214511037
WBGene00014258	-0.334635792	7	1.34E+01	-0.172459104
WBGene00003749	0.941950049	4	3.40E-03	0.643286893
WBGene00044158	0.132371616	13	2.19E-01	0.282670421
WBGene00013142	0.194790713	5	2.03E-01	0.54668086
WBGene00013140	0.476304018	10	5.72E-03	0.857272217
WBGene00175030	1	6	3.53E-04	0.435010816
WBGene00013139	0.984654883	6	5.38E-04	0.852640286
WBGene00001623	0.062774982	13	5.67E-01	0.741150258

WBGene00006940	1	18	4.08E-11	1
WBGene00013141	0.331307777	3	1.29E-01	0.07089911
WBGene00194906	0.119705611	6	3.20E-01	-0.091771602
WBGene00013145	-0.36207865	6	1.12E+01	-0.338453465
WBGene00003100	-0.440274805	16	2.22E+03	-0.087578798
WBGene00013144	0.140039804	8	2.51E-01	0.028971587
WBGene00013143	0.952940082	13	3.04E-06	0.756149396
WBGene00003785	0.696398874	20	2.22E-06	0.415400998
WBGene00013146	0.116709421	4	3.45E-01	0.767091181
WBGene00014260	-0.237488278	6	4.48E+00	0.013914013
WBGene00014261	0.265507003	21	9.97E-03	0.441214641
WBGene00000178	0.721698175	5	6.62E-03	0.999512499
WBGene00014262	0.842227458	15	3.57E-06	0.410041869
WBGene00011678	2	6	1.98E-06	1
WBGene00011677	-0.329922187	12	8.27E+01	0.095845463
WBGene00219214	-0.026542264	1	5.69E-01	-0.147854256
WBGene00011676	-0.233105047	6	4.34E+00	0.097473675
WBGene00011675	-0.559646024	20	1.56E+05	-0.583043632
WBGene00011671	-0.738279707	7	3.78E+02	-0.535875602
WBGene00011672	-0.228522563	6	4.19E+00	-0.242000921
WBGene00011673	-0.64799819	9	6.65E+02	-0.484065758
WBGene00000372	-0.630158434	8	2.93E+02	-0.435019258
WBGene00011674	-0.542071735	9	2.29E+02	-0.435162988
WBGene00013147	-0.619886277	8	2.67E+02	-0.276464789
WBGene00014158	-0.652181065	10	1.34E+03	-1
WBGene00271806	-0.713854435	1	4.24E+00	-0.49452911
WBGene00014160	-0.248052573	12	2.91E+01	-0.445768438
WBGene00014161	-0.389471209	7	2.11E+01	-0.335982078
WBGene00014159	-0.064073315	4	9.51E-01	0.016476825
WBGene00270290	-1	5	4.55E+03	-1
WBGene00014163	-0.59687445	8	2.16E+02	-1
WBGene00014162	-0.537063834	21	1.74E+05	-0.534878101
WBGene00003863	-0.112875966	9	3.05E+00	-0.339930988
WBGene00202513	-0.089479803	3	9.37E-01	0.11028151
WBGene00007469	-0.203600464	6	3.49E+00	-0.216392527
WBGene00007471	-0.337266603	7	1.37E+01	-0.250768665
WBGene00007470	-0.669214959	6	1.09E+02	-0.410611894
WBGene00007467	-0.192844044	7	4.14E+00	-0.256526837
WBGene00206395	-0.204984765	1	9.58E-01	-0.454852377
WBGene00007465	-0.175103876	15	2.32E+01	-0.0738888
WBGene00003862	-0.086581804	11	3.19E+00	-0.33238882
WBGene00007472	-0.309811215	6	7.65E+00	-0.164472172
WBGene00007473	-0.357153258	6	1.08E+01	-0.336247254
WBGene00007466	-0.511722768	4	1.17E+01	-0.453015392
WBGene00007462	-0.054818874	9	1.70E+00	-0.225163549
WBGene00007474	-0.35182499	4	4.77E+00	0.172632668
WBGene00007464	0.337483938	9	3.28E-02	0.14496692

WBGene00007463	0.73836002	34	2.81E-10	0.037595003
WBGene00086566	-0.083542303	6	1.44E+00	0.022487741
WBGene00009146	-0.220090932	7	5.18E+00	0.445380061
WBGene00006744	0.583453747	8	4.29E-03	0.500705785
WBGene00009147	-0.310031981	42	2.65E+06	-0.271527645
WBGene00044159	0	2	5.69E-01	0.002484686
WBGene00086567	-0.078420823	3	8.89E-01	-0.101365207
WBGene00007328	-0.060957279	3	8.19E-01	0.064697405
WBGene00007329	0.290983216	37	3.18E-04	0.315090806
WBGene00007331	-0.068973485	11	2.59E+00	0.228378546
WBGene00007330	0.659527533	13	1.66E-04	0.428692798
WBGene00007334	0.105883102	6	3.55E-01	0.056490956
WBGene00007332	0.113256879	7	3.28E-01	-0.233906358
WBGene00007333	0.096892745	14	3.53E-01	0.026452298
WBGene00011271	-0.345845426	15	3.23E+02	-0.308602569
WBGene00001207	-0.216248603	17	7.51E+01	-0.436416076
WBGene00011272	0.104678223	14	3.15E-01	0.216815891
WBGene00011273	0.407308504	4	6.78E-02	0.240975171
WBGene00011275	0.437948728	4	5.71E-02	0.661622969
WBGene00011274	0.38807852	3	9.89E-02	0.378794127
WBGene00011276	0.213833675	23	2.33E-02	-0.109711065
WBGene00011277	-0.63963414	8	3.20E+02	-0.278691983
WBGene00014130	-0.352849086	3	3.24E+00	0.039710187
WBGene00014131	-0.009625224	2	5.90E-01	-0.019709388
WBGene00002266	0.438180431	29	2.24E-05	0.225754679
WBGene00003773	0.009816687	5	6.73E-01	0.349595777
WBGene00014127	-0.486984071	10	2.20E+02	-0.643493282
WBGene00014128	-1	7	7.10E+03	-1
WBGene00014129	-1	4	3.60E+02	-0.871158748
WBGene00002265	0.447847964	21	2.26E-04	0.364241624
WBGene00009948	-0.245996437	11	2.11E+01	-0.935767392
WBGene00009947	-0.660610321	5	5.24E+01	-0.594859155
WBGene00009944	-0.102519444	8	2.32E+00	-0.238639951
WBGene00002497	0.189274778	21	4.86E-02	0.534443336
WBGene00009946	-0.156007828	3	1.28E+00	0.470606959
WBGene00009945	-0.119379765	7	2.25E+00	0.341831997
WBGene00303061	-0.046831447	1	6.04E-01	1
WBGene00001447	-0.605052986	3	1.06E+01	-0.860722404
WBGene00007670	-0.233269915	15	5.69E+01	0.06869407
WBGene00007669	-0.202703178	4	2.07E+00	-0.201864236
WBGene00000995	-0.225043925	43	1.22E+05	-0.075251945
WBGene00014164	0.142783695	16	1.64E-01	-0.050506439
WBGene00003928	0.426953597	4	6.08E-02	0.377813097
WBGene00014165	0.575063198	11	1.25E-03	0.657592801
WBGene00014166	0.295863002	15	1.63E-02	0.310965122
WBGene00014168	-0.720902862	9	1.39E+03	-0.243187184
WBGene00014169	-0.908926339	7	1.55E+03	-0.404711065

WBGene00014170	-1	3	4.39E+02	-0.96340177
WBGene00003058	-0.515058566	52	1.89E+12	-0.496517024
WBGene00044035	-0.047601717	2	6.82E-01	0.003517927
WBGene00044027	-0.326173633	4	4.13E+00	-0.446563535
WBGene00009194	0.015165284	13	1.09E+00	-0.073946455
WBGene00206354	-0.477569473	2	3.52E+00	-0.30699021
WBGene00004017	-0.51536212	5	2.04E+01	-0.177842638
WBGene00009192	-0.71032738	10	2.54E+03	-0.856080456
WBGene00009193	-0.568995859	18	5.83E+04	-0.738824203
WBGene00003939	-0.204839011	17	6.17E+01	-0.277002087
WBGene00044028	-0.003484842	4	6.77E-01	0.015473384
WBGene00000914	0.303916809	36	2.45E-04	0.333870917
WBGene00001686	-0.011441535	10	1.20E+00	0.342972368
WBGene00009364	0.700671764	8	1.47E-03	0.322278542
WBGene00009365	-0.192571352	43	3.27E+04	-0.545615555
WBGene00005079	-0.52899479	11	6.03E+02	-0.215291636
WBGene00005080	-0.009785386	3	6.44E-01	0
WBGene00000389	-0.1636162	7	3.25E+00	-0.317204386
WBGene00011041	-0.254923886	3	2.04E+00	0.013410125
WBGene00005071	-0.241948094	8	8.33E+00	0.160506796
WBGene00011038	-0.084795069	6	1.45E+00	-0.74023003
WBGene00011039	-0.330287012	12	8.31E+01	-0.700414822
WBGene00011040	0.05753304	3	4.69E-01	0.169248456
WBGene00011331	-0.038280296	14	2.51E+00	-0.287581274
WBGene00004334	-0.094947159	7	1.84E+00	-0.000503986
WBGene00004038	-0.706639485	29	1.70E+09	-0.662818055
WBGene00005352	-0.256630561	1	1.11E+00	-0.017372361
WBGene00011335	-0.22782009	10	1.28E+01	0.026895563
WBGene00011336	-0.071035847	2	7.46E-01	-0.122900682
WBGene00003177	-0.177968354	11	9.41E+00	0.254202971
WBGene00011334	0.27477306	8	7.29E-02	0.001457356
WBGene00011333	0.088157971	23	3.96E-01	0.199392252
WBGene00010015	-0.131616393	10	4.47E+00	-0.037671236
WBGene00010013	-0.009659474	68	1.74E+02	0.13029038
WBGene00010014	-0.174577233	4	1.77E+00	0.0311585
WBGene00175034	0.031095061	4	5.58E-01	0.193629962
WBGene00014175	-0.981361303	9	1.91E+04	-1
WBGene00014171	-0.052687742	55	5.12E+02	0.190522535
WBGene00014172	0.697196687	12	1.71E-04	0.313998941
WBGene00007022	0.742665597	6	3.22E-03	0.105240436
WBGene00006918	0.402389278	5	5.26E-02	0.562942725
WBGene00001531	0.065106289	16	5.82E-01	0.064275493
WBGene00014174	-0.567505947	6	5.13E+01	-0.712124946
WBGene00001532	-0.32678184	20	1.52E+03	-0.545870996
WBGene00014173	-0.233447992	4	2.46E+00	-1
WBGene00194935	0	2	5.69E-01	-0.091648765
WBGene00010832	-0.037990339	5	9.19E-01	0.012188582

WBGene00010831	-0.195569197	9	7.01E+00	-0.044177339
WBGene00010830	-0.371808563	23	1.27E+04	-0.214424528
WBGene00007413	0.017356848	17	1.35E+00	0.064925039
WBGene00007420	0.474270033	3	6.59E-02	-0.090128352
WBGene00007412	-0.126717112	25	7.40E+01	-0.541335251
WBGene00007419	-0.097707723	2	8.26E-01	0.019780733
WBGene00007418	0	3	6.15E-01	0.042062632
WBGene00007414	-0.435931589	22	3.39E+04	-0.274647871
WBGene00007415	0.003708848	12	1.18E+00	-0.928629172
WBGene00007416	-0.373397708	7	1.84E+01	-0.180443436
WBGene00007417	-0.199973499	7	4.39E+00	-0.350057994
WBGene00011661	0.024912759	5	6.11E-01	0.320570854
WBGene00011662	0.678987736	7	3.03E-03	0.790882232
WBGene00303079	0.794941762	1	5.16E-02	0.441674033
WBGene00001683	0.238456074	10	7.75E-02	0.427429026
WBGene00011663	-0.156114806	5	1.98E+00	-0.003805141
WBGene00011664	-0.311080851	14	1.32E+02	-0.249200518
WBGene00008484	-0.119242159	4	1.30E+00	-0.185151323
WBGene00008480	0.427611627	10	9.76E-03	0.153244941
WBGene00008481	1	12	4.11E-07	0.785253266
WBGene00008482	-0.156456602	11	7.30E+00	0.026866241
WBGene00008483	-0.884805257	6	5.34E+02	-0.509460678
WBGene00014057	-0.295904507	7	9.71E+00	-0.203850708
WBGene00014058	0.50941346	8	8.47E-03	0.342484637
WBGene00003038	0.174264378	4	2.50E-01	-0.20033591
WBGene00014060	-0.379127352	16	8.17E+02	-0.364844088
WBGene00014065	0.356044174	14	8.17E-03	0.53562683
WBGene00014061	0.749525234	2	3.26E-02	0.411975661
WBGene00014062	-0.530037879	5	2.24E+01	-0.068275059
WBGene00014064	-0.429316705	2	2.93E+00	-0.440598044
WBGene00006583	-0.2577478	5	3.83E+00	-0.204786414
WBGene00014063	-0.80386146	8	1.44E+03	-0.609260961
WBGene00014041	-1	2	1.63E+02	-0.660824947
WBGene00014042	-1	2	6.82E+01	-0.642365973
WBGene00014043	-0.890298246	7	1.33E+03	-0.636303105
WBGene00014044	-0.459656932	2	3.29E+00	0.118300349
WBGene00014045	-0.917344339	6	6.80E+02	-0.476112466
WBGene00014046	-0.227646053	6	4.17E+00	-0.063580141
WBGene00014049	-0.218973443	3	1.72E+00	-0.086771558
WBGene00195145	-0.254602281	6	5.09E+00	-0.090652769
WBGene00014047	-0.129961451	9	3.62E+00	0.069479924
WBGene00014048	-0.554022037	8	1.46E+02	-0.200108764
WBGene00194952	-0.248519385	4	2.67E+00	0.292267091
WBGene00014050	0.501913683	2	8.38E-02	0.882105237
WBGene00004134	1	11	1.82E-07	1
WBGene00010318	-0.204767183	7	4.57E+00	-0.211221601
WBGene00010319	-0.593559719	5	3.39E+01	-0.349017526

WBGene00010320	-0.245311646	14	5.09E+01	-0.106672094
WBGene00010321	-0.075991102	4	1.02E+00	-0.012155605
WBGene00010322	-0.482494297	5	1.65E+01	0.167726309
WBGene00003107	-0.05336526	19	5.85E+00	-0.0554386
WBGene00011302	0.048576603	19	8.44E-01	-0.115041361
WBGene00011303	-0.009356418	4	7.00E-01	0.208779734
WBGene00004185	0.477520532	17	4.92E-04	0.073588308
WBGene00011304	0.592935971	51	1.44E-11	0.218850184
WBGene00007352	0.323685939	21	2.98E-03	-0.29073832
WBGene00007356	-0.129854168	3	1.13E+00	-0.41538143
WBGene00044235	-0.163626923	3	1.33E+00	0.24491926
WBGene00007353	0.727806423	8	1.14E-03	0.491176708
WBGene00007354	-0.010125802	21	3.06E+00	0.019312546
WBGene00007355	-0.100850372	9	2.70E+00	-0.795860337
WBGene00007555	0.120098178	8	3.01E-01	-0.625942877
WBGene00000933	0.163400754	8	2.02E-01	-0.326886182
WBGene00007564	0.119790754	18	2.25E-01	-0.121531481
WBGene00007556	-0.069680159	7	1.49E+00	0.044902195
WBGene00000796	-0.001912746	14	1.48E+00	0.041162466
WBGene00000798	-0.082607873	3	9.07E-01	0.398788816
WBGene00007557	-0.032725292	8	1.22E+00	-0.211563124
WBGene00007558	-0.006663292	6	8.15E-01	-0.043967727
WBGene00007559	-0.090776947	6	1.52E+00	-0.058472247
WBGene00007560	-0.905106415	5	2.56E+02	-0.152433663
WBGene00005713	-0.665389042	5	5.40E+01	-0.667639719
WBGene00006397	0.415542145	6	3.60E-02	0.278492621
WBGene00007561	0.290622489	6	9.06E-02	0.493217438
WBGene00007562	-0.011622743	16	2.04E+00	0.079265619
WBGene00007563	-0.283739835	7	8.78E+00	-0.094937132
WBGene00010893	0.111051837	17	2.69E-01	-0.383732786
WBGene00010899	-0.261139999	15	8.74E+01	-0.228182624
WBGene00010894	-0.285993557	18	3.48E+02	-0.266666883
WBGene00010900	-0.380461766	18	1.92E+03	-0.135736314
WBGene00010895	-0.73561824	18	1.19E+06	-0.655365407
WBGene00010901	0.003345379	2	5.62E-01	0.02694375
WBGene00010898	0.002065975	14	1.40E+00	-0.115170221
WBGene00010897	0.3767482	11	1.32E-02	0.265245705
WBGene00010896	1	6	1.73E-04	-0.038843104
WBGene00004704	1	26	7.41E-13	0.466490376
WBGene00008433	1	5	8.88E-05	0.564764994
WBGene00271706	0.850688764	4	5.66E-03	-0.223828879
WBGene00008434	-0.318053383	12	7.11E+01	-0.036898974
WBGene00004207	0.352309816	41	1.44E-05	0.307770769
WBGene00001522	0.020296171	6	6.68E-01	0.1202013
WBGene00001586	0.408403973	20	6.82E-04	0.567900257
WBGene00007488	0.044826974	40	1.99E+00	0.036863766
WBGene00000655	0.267468192	4	1.48E-01	-0.323936973

WBGene00000616	0.274243917	5	1.21E-01	0.245440145
WBGene00000656	-0.096373465	3	9.68E-01	0.20083922
WBGene00000251	-0.079017	15	5.27E+00	-0.017786269
WBGene00007489	-0.578538329	6	5.56E+01	-0.297258563
WBGene00206538	0.140214437	7	2.62E-01	0.483963469
WBGene00007490	-0.240374227	28	2.83E+03	-0.107165802
WBGene00271803	0	1	5.26E-01	0
WBGene00008256	-0.549608623	8	1.40E+02	-0.799004114
WBGene00008257	0.288861304	6	9.18E-02	0.783366505
WBGene00003404	0.550546822	88	2.41E-17	0.620602092
WBGene00002297	-0.35232759	22	5.55E+03	-0.162321234
WBGene00000411	0.016187336	11	9.43E-01	0.033149485
WBGene00011072	0.232724253	3	2.05E-01	-0.252671635
WBGene00011067	-0.070843036	15	4.65E+00	0.00080502
WBGene00011068	-0.104523319	9	2.80E+00	-0.020299671
WBGene00003805	0.069228211	12	5.11E-01	-0.005933325
WBGene00011069	0.458495075	11	4.99E-03	0.525770556
WBGene00269421	-0.537961687	7	7.20E+01	0.321193168
WBGene00011070	-0.501682515	6	3.15E+01	-0.246093045
WBGene00011071	0.197046626	28	2.08E-02	0.472034568
WBGene00001153	0.659602869	5	9.90E-03	0.517666815
WBGene00023418	0.866236985	13	9.90E-06	0.884750321
WBGene00003367	0.584902927	38	6.82E-09	0.713432907
WBGene00014848	1	5	4.94E-04	1
WBGene00077658	0.841264354	10	1.05E-04	0.812700642
WBGene00010910	0.094774614	39	3.05E-01	0.160749874
WBGene00044924	-0.080337906	4	1.04E+00	0.084865782
WBGene00010911	0.302902326	11	3.16E-02	0.308476656
WBGene00010912	0.154666113	20	1.06E-01	0.145590256
WBGene00000293	0.512281316	13	1.23E-03	0.378111963
WBGene00000880	0.304498506	10	3.76E-02	0.183910051
WBGene00010333	-0.506083912	5	1.92E+01	0.10545822
WBGene00003882	-0.07683353	10	2.45E+00	0.090835215
WBGene00009700	-0.12091197	3	1.09E+00	-0.037682896
WBGene00009701	0.03734406	14	8.38E-01	-0.324761446
WBGene00009702	-3.89E-05	1	5.26E-01	-0.035850031
WBGene00004222	0.00045226	10	1.05E+00	0.005482845
WBGene00005036	-0.18926915	4	1.92E+00	0.049489266
WBGene00001626	-0.105022256	10	3.34E+00	-0.04925621
WBGene00005038	-0.442580178	6	2.04E+01	-0.493555645
WBGene00005037	-0.293519184	7	9.52E+00	-0.426865338
WBGene00194850	-0.135867514	2	9.55E-01	-0.583947505
WBGene00009704	-1	6	1.61E+03	-1
WBGene00009705	-0.214006633	5	2.88E+00	-0.819992975
WBGene00006530	-0.751237204	14	7.92E+04	-0.865731601
WBGene00012489	0.004458195	1	5.20E-01	-0.012236739
WBGene00012490	0.200195454	5	1.96E-01	-0.751699495

WBGene00010988	-0.518726353	32	4.55E+07	-0.546056589
WBGene00010989	-0.541482263	18	3.55E+04	-0.451445194
WBGene00219205	-0.042335129	2	6.69E-01	-0.048669586
WBGene00010990	0.383793007	6	4.55E-02	0.393045844
WBGene00010991	0.156104332	7	2.30E-01	0.264372411
WBGene00001753	-0.228889689	5	3.17E+00	-0.332378491
WBGene00003783	-0.82952082	9	4.13E+03	-0.648273241
WBGene00010992	-0.321979359	15	2.23E+02	-0.294892751
WBGene00004215	0.385313668	97	1.33E-12	0.37686065
WBGene00000657	-0.008106704	10	1.16E+00	-0.174162457
WBGene00004300	-0.749550895	6	1.97E+02	-0.744894008
WBGene00002957	0.179865613	40	1.22E-02	0.474618328
WBGene00009355	0.179290504	7	1.90E-01	0.795816924
WBGene00003756	-0.061991885	9	1.83E+00	0.117897371
WBGene00009356	-0.109331492	11	4.17E+00	-0.274088173
WBGene00000472	0.803311803	10	1.59E-04	0.138506073
WBGene00000658	0.482369596	6	2.20E-02	-0.284133497
WBGene00009352	0.125783656	8	2.86E-01	-0.032529232
WBGene00009353	-0.021937825	2	6.18E-01	0.342724389
WBGene00009354	-0.163413097	51	6.02E+04	-0.381603245
WBGene00009729	-0.561668651	13	2.83E+03	-0.494493657
WBGene00006788	0.461956315	67	3.44E-11	0.341511546
WBGene00004455	0.840224128	4	6.00E-03	0.513151678
WBGene00007504	1	6	2.37E-05	1
WBGene00004454	0.240065139	2	2.28E-01	0.335257241
WBGene00003831	0.425486871	10	9.99E-03	0.451618431
WBGene00043120	0.943025831	3	7.25E-03	0.916433597
WBGene00007499	0.230083769	10	8.50E-02	0.030884631
WBGene00007503	-0.123645034	9	3.40E+00	-0.083562659
WBGene00007500	0.050748041	5	5.16E-01	0.035860465
WBGene00007501	0.296686845	6	8.67E-02	-0.008499889
WBGene00007502	0.162413484	11	1.67E-01	-0.078466669
WBGene00003133	-0.023405759	28	8.03E+00	-0.127274474
WBGene00044160	-0.050374184	8	1.44E+00	-0.42845123
WBGene00004478	1	5	5.12E-04	0.132354151
WBGene00003076	0.501252001	5	2.77E-02	0.559090985
WBGene00009575	0.198733724	5	1.97E-01	0.451098674
WBGene00009576	0.233759896	5	1.57E-01	0.382992612
WBGene00044917	1	1	1.58E-02	0.430507231
WBGene00044916	0.725782843	8	1.16E-03	-0.002391873
WBGene00009578	0.003411337	34	6.08E+00	-0.550387182
WBGene00009577	-0.422127195	7	2.76E+01	-0.310728277
WBGene00009579	0.295719022	17	1.12E-02	0.270631488
WBGene00004096	-0.321476783	8	1.73E+01	-0.288380406
WBGene00004227	0.877850199	15	2.06E-06	0.703912645
WBGene00009511	0.184857654	12	1.17E-01	0.377475264
WBGene00194955	0.427415191	2	1.11E-01	0.317954328

WBGene00009512	0.120918007	3	3.48E-01	0.113128172
WBGene00003046	1	6	3.27E-04	0.808625426
WBGene00009513	-0.005255246	2	5.80E-01	0.013378155
WBGene00009514	0.255799715	7	1.01E-01	0.132683813
WBGene00011522	-0.202388072	102	2.01E+11	-0.213309895
WBGene00011524	0.276988536	9	6.02E-02	0.257202106
WBGene00011523	-0.233191505	49	9.39E+05	-0.330209684
WBGene00011526	0.490782574	7	1.44E-02	0.220239907
WBGene00011527	0.239826021	8	1.00E-01	-0.155496826
WBGene00011528	0.49195312	4	4.22E-02	0.564352579
WBGene00004465	0.729944294	8	1.12E-03	0.63646515
WBGene00011529	-0.074709796	15	4.93E+00	-0.66179103
WBGene00011530	-0.495918728	39	8.63E+08	-0.295153696
WBGene00011465	-0.025372375	6	9.35E-01	-0.058285562
WBGene00011464	-1	8	7.56E+04	-0.959695878
WBGene00000851	-0.550037665	14	4.26E+03	-0.73914664
WBGene00006853	0.422612211	8	1.88E-02	-0.114537189
WBGene00008164	-0.03772918	9	1.43E+00	0.280501164
WBGene00008165	-0.128167049	11	5.22E+00	-0.016096939
WBGene00008166	0.313364146	8	5.11E-02	0.32415097
WBGene00006414	0.071697632	14	5.09E-01	-0.362564548
WBGene00011994	0.589586908	21	1.19E-05	-0.011055959
WBGene00011995	-0.068493422	13	3.39E+00	-0.01578556
WBGene00011999	-0.38730153	2	2.49E+00	-0.447924194
WBGene00011996	0.553109496	5	1.98E-02	0.879660364
WBGene00011997	0.142750618	2	3.30E-01	-0.039152348
WBGene00007041	0.86649247	27	5.78E-10	0.823550296
WBGene00005016	0.367025459	6	5.16E-02	0.12953486
WBGene00007190	-0.041412882	5	9.39E-01	0.007617702
WBGene00007191	0.003010513	10	1.02E+00	0.021476064
WBGene00007192	0.04160408	11	6.98E-01	-0.125914295
WBGene00007193	0.015560664	9	8.37E-01	-0.046735083
WBGene00007189	-0.108086284	9	2.90E+00	-0.068268876
WBGene00007194	-0.123824543	6	1.94E+00	0.544915356
WBGene00000529	0.131163326	30	1.14E-01	0.132064295
WBGene00007891	-0.441455431	8	5.19E+01	-0.832754878
WBGene00007892	0	1	5.26E-01	-0.007132178
WBGene00007893	0.118289427	3	3.52E-01	0.432972564
WBGene00006444	-0.179793216	21	1.04E+02	-0.279244515
WBGene00044029	0.267746756	6	1.07E-01	0.345716635
WBGene00007339	0.073911211	8	4.60E-01	0.222206905
WBGene00007340	-0.130725318	14	9.63E+00	-0.254974514
WBGene00014666	-0.327617347	15	2.44E+02	-0.139758369
WBGene00007341	-0.034923968	4	8.08E-01	-0.082300625
WBGene00007342	-0.718767502	9	1.36E+03	-0.433624254
WBGene00006915	-1	18	1.44E+08	-0.383416243
WBGene00012155	-0.078834587	6	1.39E+00	-0.075478819

WBGene00012156	0.022892271	3	5.52E-01	0.442296527
WBGene00012157	0.304127704	5	9.96E-02	0.23337782
WBGene00043534	-0.178478754	12	1.20E+01	0.060045695
WBGene00012201	-0.145958625	6	2.28E+00	-0.066820877
WBGene00004699	0.347863104	8	3.73E-02	0.931182571
WBGene00004698	0.291709062	18	1.00E-02	0.283638518
WBGene00012202	-0.223869279	14	3.73E+01	-0.069659198
WBGene00000196	-0.17477304	13	1.45E+01	0.058639859
WBGene00012203	0.376036249	26	2.76E-04	0.059359592
WBGene00002227	0.576806077	12	7.93E-04	0.106990897
WBGene00044026	0.336932636	7	5.15E-02	0.065407861
WBGene00012204	0.335419113	7	5.22E-02	0.52869928
WBGene00012205	0.446345187	13	3.03E-03	0.189233252
WBGene00012206	0.218007066	9	1.09E-01	0.220118521
WBGene00195148	0.475062059	1	1.31E-01	0.04318802
WBGene00012207	-0.262590016	11	2.57E+01	-0.05231295
WBGene00006660	2	6	2.97E-06	2
WBGene00007142	2	6	1.07E-05	2
WBGene00007149	0.673261127	6	5.37E-03	1
WBGene00007143	0.384254542	16	3.19E-03	0.680291199
WBGene00003868	0.696844045	9	8.81E-04	0.58560456
WBGene00007144	0.308970152	4	1.18E-01	0.326047093
WBGene00195248	-0.323025236	6	8.43E+00	0.604738647
WBGene00007145	-0.042142616	4	8.41E-01	0.165199646
WBGene00219293	-0.009229909	1	5.41E-01	-0.000581328
WBGene00007146	-0.603112465	8	2.29E+02	-0.701157221
WBGene00005267	-0.500039483	8	8.89E+01	-0.360457746
WBGene00007148	0.065850082	4	4.59E-01	0.277245111
WBGene00000090	0.411962087	41	1.43E-06	0.481926388
WBGene00013388	0.62201719	14	1.72E-04	0.442549431
WBGene00007013	0.986574167	64	3.11E-24	0.641335969
WBGene00077453	0.79221771	4	7.86E-03	0.658425752
WBGene00013387	0.26990619	10	5.49E-02	0.075978385
WBGene00010055	0.454001524	11	5.27E-03	-0.363657322
WBGene00010054	0.23609005	11	6.97E-02	0.674435347
WBGene00010053	0.244291449	14	4.15E-02	-0.04286814
WBGene00001031	-0.080668793	11	2.97E+00	-0.164813187
WBGene00010052	0.320188605	15	1.12E-02	-0.182729911
WBGene00271798	0.128074822	11	2.50E-01	-0.227937457
WBGene00195146	0.136646728	1	3.53E-01	-0.681106564
WBGene00010057	-0.309263069	14	1.29E+02	-0.396323921
WBGene00010051	-0.521055448	11	5.49E+02	-0.614153258
WBGene00219434	-0.787990165	3	2.51E+01	-0.52340435
WBGene00010050	-0.916023468	11	5.92E+04	-0.735129771
WBGene00010049	-1	5	6.93E+02	-0.716565794
WBGene00010048	-0.218666603	4	2.26E+00	-0.556058085
WBGene00003960	-0.123115354	15	1.04E+01	-0.779707826

WBGene00010056	-0.052885526	31	2.59E+01	-0.239135464
WBGene00008361	-0.266776513	16	1.31E+02	-0.265647947
WBGene00008545	-0.957963868	18	6.66E+07	-0.782309426
WBGene00008546	-0.298901121	26	6.91E+03	-0.567627976
WBGene00003791	0.087869373	24	3.99E-01	-0.557846308
WBGene00008547	0.544990556	28	1.71E-06	0.367269059
WBGene00008548	-0.401821162	8	3.61E+01	-0.088574107
WBGene00008549	0.743255855	73	2.85E-20	0.500815875
WBGene00002194	-1	5	1.51E+03	-1
WBGene00013923	-0.230214709	7	5.64E+00	-0.522339998
WBGene00013925	-0.247622164	6	4.83E+00	-0.277677882
WBGene00013924	0.00307897	5	7.04E-01	-0.060823334
WBGene00004468	0.207200446	3	2.32E-01	0.061554346
WBGene00013926	-0.600383771	21	6.49E+05	-0.919537788
WBGene00007028	-0.134510675	90	3.38E+07	-0.093019219
WBGene00008136	0.436836235	17	9.90E-04	-0.057853235
WBGene00008137	-0.160069813	7	3.15E+00	-0.635590426
WBGene00008138	-0.465251327	5	1.47E+01	-0.443580097
WBGene00008139	-0.457658561	7	3.71E+01	-0.244498066
WBGene00002184	0.331305352	31	2.87E-04	0.06493041
WBGene00006617	0.435413691	20	3.99E-04	0.066829426
WBGene00008140	-0.050894579	42	9.44E+01	-0.106863022
WBGene00012148	-0.132214402	17	1.77E+01	-0.226711651
WBGene00012149	-0.180751375	32	1.47E+03	-0.493064796
WBGene00008743	-0.857682974	18	1.08E+07	-1
WBGene00008744	0.192740016	8	1.55E-01	-0.038201853
WBGene00008739	-0.089245513	4	1.09E+00	-0.125604042
WBGene00002262	0.563550976	11	1.44E-03	0.101583343
WBGene00008740	0.768694085	11	1.26E-04	-0.188370134
WBGene00000114	0.645749763	11	5.43E-04	-0.301515881
WBGene00008742	0.734471269	7	1.92E-03	-0.119134754
WBGene00008741	0.02254159	8	7.36E-01	-0.315357269
WBGene00001679	1	20	1.94E-10	0.740868042
WBGene00303054	1	2	8.79E-03	0.733839919
WBGene00009691	-0.015337889	16	2.16E+00	-0.024264935
WBGene00009692	0.000627804	16	1.67E+00	0.068262107
WBGene00009690	0.050475824	7	5.52E-01	0.033653198
WBGene00009689	-0.211390546	6	3.70E+00	0.54171674
WBGene00206377	0.147061048	9	2.23E-01	0.134780277
WBGene00009688	2	1	4.26E-03	1
WBGene00009661	0.900533682	17	3.39E-07	0.430159359
WBGene00001016	-0.162669169	21	7.28E+01	-0.459685715
WBGene00219294	-0.42703045	1	1.83E+00	-0.152389074
WBGene00009657	-0.201776911	20	1.27E+02	-0.114060673
WBGene00009663	-0.083193092	11	3.06E+00	-0.079715637
WBGene00219378	-0.669613145	7	2.14E+02	-0.391404212
WBGene00005013	-0.269467255	10	2.03E+01	-0.374525786

WBGene00009662	-0.620591821	6	7.59E+01	-0.590277282
WBGene00009659	-0.331149189	7	1.30E+01	-1
WBGene00009660	-0.834044162	7	8.36E+02	-0.576376522
WBGene00009658	-0.186511052	17	4.50E+01	-0.005671699
WBGene00012396	-0.031580194	3	7.13E-01	-0.014220706
WBGene00012395	0.294005306	21	5.52E-03	-0.664728324
WBGene00003979	0.048680007	17	7.87E-01	-0.010404013
WBGene00012086	0.33886421	3	1.25E-01	0.065204969
WBGene00194848	-0.072222861	7	1.52E+00	-0.341392241
WBGene00012085	-0.068932123	12	2.97E+00	-0.338356099
WBGene00000528	-0.398360952	31	7.41E+05	-0.170367695
WBGene00010787	0.139030565	8	2.53E-01	-0.182582372
WBGene00010786	0.267578615	9	6.62E-02	-0.269585153
WBGene00003789	0.427815785	43	4.22E-07	0.100654331
WBGene00000659	0.699598405	7	2.56E-03	0.301209684
WBGene00010785	0.307030476	38	1.49E-04	0.01684935
WBGene00014155	-0.734813323	6	1.77E+02	-1
WBGene00014156	-0.241605064	5	3.45E+00	-0.143957284
WBGene00014152	-0.243876612	6	4.70E+00	-0.175021889
WBGene00014153	-0.015381361	6	8.69E-01	0.016032264
WBGene00014154	-0.062242525	10	2.09E+00	-0.074214797
WBGene00014151	0.518083397	25	1.12E-05	0.078388392
WBGene00014157	0.861974811	3	1.06E-02	0.867186619
WBGene00001977	-0.024601382	4	7.62E-01	0.136419621
WBGene00003015	-0.136881755	44	4.21E+03	-0.052986538
WBGene00012223	0.030748774	3	5.32E-01	-0.040502851
WBGene00012222	0.821483295	24	1.34E-08	0.818524721
WBGene00012219	2	9	1.75E-09	2
WBGene00012220	0.790188728	8	6.45E-04	1
WBGene00004271	0.030944221	4	5.58E-01	0.226572435
WBGene00012221	-0.010274444	2	5.92E-01	0.209432402
WBGene00003228	-0.055988695	11	2.22E+00	0.178987347
WBGene00012457	0.268117945	5	1.26E-01	0.281457131
WBGene00012472	1	8	5.88E-05	0.89967851
WBGene00012471	2	10	7.35E-08	0.774318582
WBGene00012458	0.066667181	15	5.57E-01	-0.007399409
WBGene00012459	0	6	7.76E-01	0
WBGene00012460	-0.038271496	9	1.44E+00	0.074771443
WBGene00044030	-0.004671205	6	8.03E-01	-0.360875896
WBGene00003154	-0.141446015	55	4.78E+04	-0.855400736
WBGene00012461	0.070415455	24	6.00E-01	0.056525344
WBGene00012465	-0.037682277	3	7.34E-01	-0.138667663
WBGene00012462	-0.051384998	9	1.64E+00	0.042762805
WBGene00000892	0.000175569	5	7.17E-01	0.000129319
WBGene00006601	0.061597477	13	5.76E-01	0.138647471
WBGene00012466	-0.008904957	11	1.27E+00	0.068582417
WBGene00012463	-0.279545807	43	1.10E+06	-0.16885596

WBGene00012464	-0.111119837	4	1.24E+00	-0.204315707
WBGene00012467	-0.053220153	4	8.95E-01	0.096557338
WBGene00012473	0.046758181	5	5.30E-01	0.092546312
WBGene00000565	-0.004727198	27	4.47E+00	0.000399833
WBGene00012468	0.061655704	11	5.50E-01	0.169632046
WBGene00012469	0.006207736	5	6.89E-01	0.001973292
WBGene00012470	-0.217879959	9	8.77E+00	-0.268577574
WBGene00012841	-0.100843295	6	1.63E+00	-0.188334623
WBGene00012845	-0.053902998	29	2.08E+01	-0.141470415
WBGene00012844	-0.333511054	6	9.11E+00	-0.86100959
WBGene00013246	-0.149775126	42	4.70E+03	-0.043291548
WBGene00013247	-0.770289788	16	4.83E+05	-0.55297408
WBGene00013248	-0.117952533	5	1.54E+00	-0.246975902
WBGene00013249	-0.616776788	12	3.20E+03	-0.68483961
WBGene00013250	-0.70717494	14	4.18E+04	-0.801414229
WBGene00013252	-0.080135042	18	8.38E+00	-0.119703111
WBGene00013253	0.052571112	18	7.59E-01	0.037305644
WBGene00004394	-0.026914229	6	9.46E-01	-0.047623836
WBGene00013256	0.009981806	20	1.88E+00	0.007882134
WBGene00013257	-0.156909961	6	2.47E+00	-0.044627993
WBGene00013258	-0.117557795	24	4.93E+01	-0.159054165
WBGene00013259	0.022181328	6	6.58E-01	0.029413265
WBGene00013272	0.010767099	2	5.46E-01	0.00725509
WBGene00004167	0.120381519	59	6.51E-02	0.022811003
WBGene00013260	-0.186243477	17	4.48E+01	-0.337531973
WBGene00013261	-0.033916398	10	1.53E+00	-0.011952443
WBGene00013263	-0.095567162	8	2.18E+00	-0.167880208
WBGene00013264	0.000183669	7	8.37E-01	-0.022321564
WBGene00013254	-2.75E-05	1	5.26E-01	-0.027371842
WBGene00013265	-0.048749631	14	2.93E+00	0.014101211
WBGene00013255	0.166424268	49	1.07E-02	-0.056862335
WBGene00013266	0.163288367	23	7.28E-02	-0.844524733
WBGene00013267	0	8	9.06E-01	0
WBGene00013268	0	6	7.76E-01	0.056924254
WBGene00013269	0	1	5.26E-01	0.012419496
WBGene00002063	0.01152324	10	9.32E-01	0.124413561
WBGene00013270	-0.021713613	24	5.21E+00	-0.083262087
WBGene00016825	0.029300975	6	6.25E-01	0.075490639
WBGene00016834	-0.467953297	4	9.13E+00	-0.196213253
WBGene00016826	-0.165604104	11	8.13E+00	-0.212438894
WBGene00016833	0	3	6.15E-01	0
WBGene00016832	0	3	6.15E-01	0
WBGene00016827	0	1	5.26E-01	0
WBGene00016831	0	3	6.15E-01	0.028666414
WBGene00016830	0	1	5.26E-01	0
WBGene00016829	0	4	6.64E-01	0
WBGene00016828	0	2	5.69E-01	0

WBGene00004945	0.429935666	25	9.62E-05	0.348554398
WBGene00206479	1	4	1.76E-04	0.431834004
WBGene00004310	0.055149088	15	6.66E-01	0.143745475
WBGene00013273	0.393997067	22	5.25E-04	0.515911029
WBGene00013274	0.013197439	9	8.57E-01	0.202506092
WBGene00013275	0.360157175	5	6.92E-02	0.107432457
WBGene00013276	0.177200746	10	1.52E-01	0.0635551
WBGene00013277	-0.006496747	4	6.89E-01	0.109437036
WBGene00013278	0	4	6.64E-01	-0.007987732
WBGene00013279	-0.011449229	2	5.94E-01	-0.121200074
WBGene00044048	-0.166094757	6	2.64E+00	0
WBGene00010220	0	3	6.15E-01	0
WBGene00010218	0.035196727	3	5.21E-01	0.040136302
WBGene00010217	0.002108626	5	7.08E-01	0
WBGene00010219	0.026579943	7	6.73E-01	-0.002228767
WBGene00013280	-0.319056973	5	5.70E+00	0.056185499
WBGene00044047	-0.083891417	6	1.44E+00	-0.325273909
WBGene00013281	-0.086061602	3	9.22E-01	-0.15829658
WBGene00013282	-0.059646927	3	8.14E-01	-0.055909623
WBGene00013284	-0.847487793	12	6.05E+04	-0.435973382
WBGene00013286	-0.030647989	6	9.73E-01	-0.099789261
WBGene00013285	-0.30585569	6	7.43E+00	-0.208231858
WBGene00013287	0.266770381	10	5.69E-02	0.454740099
WBGene00013288	-0.29293553	3	2.44E+00	-0.246494529
WBGene00012283	0.025381112	6	6.43E-01	-0.336408341
WBGene00012285	-0.503119173	10	2.62E+02	-0.245764398
WBGene00005250	-0.017464287	3	6.67E-01	-0.094016207
WBGene00043058	-1.88E-05	5	7.18E-01	-0.034831098
WBGene00012286	8.63E-05	3	6.14E-01	-0.000693184
WBGene00012287	-0.111270447	8	2.51E+00	-0.356296156
WBGene00012288	-0.289283841	9	1.80E+01	-0.031275323
WBGene00008837	0.000826736	6	7.71E-01	0.080941576
WBGene00044323	0.031878195	3	5.29E-01	0.159265984
WBGene00044322	0.005603104	4	6.44E-01	0.006927479
WBGene00008838	-0.039718899	6	1.04E+00	0.112503632
WBGene00008839	-0.670972685	8	4.26E+02	-0.382990503
WBGene00005173	-0.046828751	6	1.10E+00	-0.199005996
WBGene00008840	-0.251467142	10	1.66E+01	-0.725153926
WBGene00008841	-0.011014651	2	5.93E-01	-0.00362338
WBGene00005174	-0.531854438	7	6.85E+01	-0.259908268
WBGene00008843	-0.227745524	10	1.28E+01	-0.838150134
WBGene00008847	-0.350546018	7	1.53E+01	-0.245593009
WBGene00008844	-0.038570845	2	6.59E-01	-0.152618682
WBGene00043054	-0.022941261	7	1.01E+00	0.342747751
WBGene00011876	0.954052593	6	6.75E-04	1
WBGene00000660	0.169769695	3	2.76E-01	0.175505652
WBGene00011877	2	5	6.08E-07	2

WBGene00011878	0.62766051	14	1.58E-04	0.591143722
WBGene00005289	0.293348878	5	1.07E-01	-0.049333962
WBGene00005288	0.090391469	8	3.95E-01	0.46501412
WBGene00005294	-0.301834811	6	7.21E+00	-0.097671087
WBGene00005290	0.050001083	4	5.02E-01	-0.012083055
WBGene00005283	-0.184684712	2	1.15E+00	-0.003010016
WBGene00005291	0.018089158	3	5.64E-01	-0.12214659
WBGene00044032	-0.206814284	17	6.39E+01	-0.163944262
WBGene00006009	0.081908278	5	4.22E-01	-0.307542434
WBGene00006010	-0.765398805	6	2.21E+02	-0.727462063
WBGene00006011	-0.002522883	3	6.22E-01	0.003172772
WBGene00009867	1	22	2.90E-12	2
WBGene00009866	0.013987809	10	9.07E-01	0.379443841
WBGene00044031	0.979893619	4	2.75E-03	1
WBGene00009868	0.248544852	5	1.43E-01	0.078335585
WBGene00044162	0.226883212	6	1.45E-01	-0.230470473
WBGene00044163	-0.005911862	4	6.87E-01	-0.026645768
WBGene00184956	-0.141397211	6	2.20E+00	-0.106486616
WBGene00009869	-0.04781572	8	1.40E+00	0.01938345
WBGene00012579	-0.417332994	3	4.38E+00	-0.207239463
WBGene00012580	-0.153160141	4	1.57E+00	-0.077819128
WBGene00012581	-0.03425366	5	8.96E-01	0.002601688
WBGene00012582	-0.134333598	8	3.10E+00	-0.071796138
WBGene00012583	-0.380814984	15	5.53E+02	-0.481462658
WBGene00012584	0.016426909	20	1.66E+00	0.007210403
WBGene00012585	-0.643309126	7	1.72E+02	-0.311885089
WBGene00012586	-1	8	3.83E+04	-1
WBGene00012587	-0.424107201	5	1.13E+01	-0.488328186
WBGene00012589	0	3	6.15E-01	-0.149297814
WBGene00012603	-2	1	1.14E+02	-2
WBGene00012590	-0.409996872	1	1.74E+00	-0.862131307
WBGene00012604	-1	4	2.42E+02	-2
WBGene00012591	-0.516837274	4	1.20E+01	-0.441360852
WBGene00175028	-0.235457323	1	1.05E+00	-0.122821677
WBGene00012592	-2	14	4.38E+09	-1
WBGene00012593	-0.059492622	3	8.13E-01	-0.431407274
WBGene00012594	-0.333733447	3	2.96E+00	-0.131382797
WBGene00044034	-0.02522447	7	1.03E+00	0.065572583
WBGene00012595	-0.199866733	14	2.63E+01	-0.355901977
WBGene00012596	-0.23761171	7	5.99E+00	-0.097408271
WBGene00012597	-0.024832734	3	6.91E-01	-0.006603142
WBGene00012598	-0.089914538	28	4.85E+01	0.011538105
WBGene00004347	0.707868557	29	1.21E-08	0.731654838
WBGene00012600	0.012631387	10	9.21E-01	0.134566332
WBGene00012602	0	2	5.69E-01	0
WBGene00271657	0	2	5.69E-01	0
WBGene00012895	0	7	8.38E-01	0.002040564

WBGene00012894	0.064742414	70	1.70E+00	0.037573943
WBGene00012896	0.685574566	71	4.00E-18	0.213742738
WBGene00012897	0.295028123	10	4.17E-02	0.214012691
WBGene00044164	0.031556147	5	5.85E-01	-0.530625927
WBGene00012899	-0.123185135	6	1.93E+00	-0.642567615
WBGene00012900	-0.179282812	6	2.92E+00	-0.419899754
WBGene00012901	-0.200162578	32	2.66E+03	-0.203386725
WBGene00012903	-0.13743922	8	3.19E+00	0.018272114
WBGene00012904	-0.004763447	10	1.11E+00	0.052219246
WBGene00012905	-0.764709446	6	2.20E+02	-0.410705484
WBGene00012919	-0.169666311	20	6.70E+01	-0.163715419
WBGene00012906	-0.089095944	6	1.50E+00	0.07620602
WBGene00012920	-0.07549648	7	1.57E+00	-0.031804457
WBGene00012907	0.023667451	20	1.43E+00	0.019370909
WBGene00012908	-0.091418647	14	5.44E+00	-0.114560663
WBGene00012909	-0.104933261	19	1.56E+01	-0.410417831
WBGene00303089	-0.489710005	1	2.20E+00	-0.988344284
WBGene00012910	-0.502975656	7	5.39E+01	-0.177067575
WBGene00012911	-0.663909878	28	2.65E+08	-0.507335725
WBGene00012912	-0.361951325	5	7.53E+00	-0.705239809
WBGene00012921	-0.064325923	2	7.27E-01	-0.035533961
WBGene00044043	0.002860168	1	5.22E-01	-0.006278176
WBGene00012913	0.036854799	3	5.17E-01	-0.084764562
WBGene00012914	-0.439695874	10	1.31E+02	-0.471785202
WBGene00012915	0.356521923	15	6.38E-03	0.219319722
WBGene00003983	-0.09932303	8	2.25E+00	-0.3608701
WBGene00012916	-0.331962722	13	1.23E+02	-0.170841464
WBGene00012917	-0.352109185	18	1.15E+03	-0.299387919
WBGene00004904	-0.8922718	23	1.60E+09	-0.747549993
WBGene00001793	0.059084606	23	7.64E-01	0.006054654
WBGene00009390	-0.199043672	7	4.35E+00	-0.037987558
WBGene00005040	-0.378699915	12	1.54E+02	-0.35153061
WBGene00009391	-0.238275922	5	3.37E+00	0.112106711
WBGene00009392	-0.313381854	4	3.84E+00	-0.178960809
WBGene00009393	-0.369373397	13	2.05E+02	-0.314083903
WBGene00009394	-0.14434061	11	6.32E+00	-0.138750599
WBGene00009395	-0.000771493	10	1.07E+00	-0.066400721
WBGene00009396	0.038881602	9	6.62E-01	-0.264869917
WBGene00009397	-0.695731431	13	1.76E+04	-1
WBGene00009398	-0.328148837	3	2.88E+00	-0.04239318
WBGene00009399	-0.017551586	2	6.08E-01	-0.124115462
WBGene00009400	-0.076145729	17	6.74E+00	-0.201820903
WBGene00010264	0.373971626	11	1.36E-02	0.064273256
WBGene00010263	-0.328278101	24	6.91E+03	-0.469412425
WBGene00010270	-0.637010162	3	1.23E+01	-0.619611007
WBGene00010265	-0.143351106	16	1.75E+01	-0.596313755
WBGene00010266	-0.186518343	7	3.93E+00	-0.304620827

WBGene00010267	-0.869450306	13	1.88E+05	-1
WBGene00010268	-0.146668912	18	2.80E+01	-0.045612976
WBGene00010269	0.251809787	16	2.77E-02	-0.072322675
WBGene00012605	-0.042376247	6	1.06E+00	-0.115451633
WBGene00012606	0.076628899	12	4.65E-01	0.100776164
WBGene00004232	-0.155763938	33	8.48E+02	-0.296442528
WBGene00012607	-0.319879389	10	3.52E+01	-0.520084145
WBGene00000870	-0.183243667	40	1.09E+04	-0.13593895
WBGene00012608	-0.682112094	17	2.27E+05	-0.835452757
WBGene00012609	0.169662643	3	2.77E-01	-0.057605277
WBGene00012610	-0.072611558	4	9.97E-01	-0.007316584
WBGene00003860	0.303621561	8	5.59E-02	-0.152678387
WBGene00008932	-0.022091157	9	1.22E+00	-0.09698397
WBGene00003144	0.187188837	34	1.58E-02	0.20743192
WBGene00008929	-0.159854006	18	3.55E+01	0.056559362
WBGene00008930	0.003633628	2	5.61E-01	-0.024261406
WBGene00004242	0.089520968	11	3.96E-01	-0.14020019
WBGene00009644	-0.054256823	4	9.00E-01	-0.09551029
WBGene00009641	0.070989868	6	4.59E-01	-0.143794331
WBGene00006999	0.353584366	33	9.18E-05	0.195469161
WBGene00009642	0	4	6.64E-01	-0.049100426
WBGene00009643	-0.457028353	5	1.40E+01	-0.263389315
WBGene00014953	-0.542408251	4	1.39E+01	-0.473863779
WBGene00195150	-0.503025706	1	2.29E+00	0.029120679
WBGene00013590	-0.09477985	4	1.13E+00	-0.022822989
WBGene00013591	0.070849599	37	7.15E-01	0.046306536
WBGene00013592	0.021410093	6	6.62E-01	-0.314176215
WBGene00000661	-0.035687667	7	1.13E+00	-0.036400582
WBGene00009245	-0.113937795	59	2.40E+04	-0.188130179
WBGene00004120	-0.110321034	10	3.54E+00	-0.620174997
WBGene00009246	0.044159348	26	1.20E+00	-0.285757291
WBGene00009247	-0.330766313	9	2.73E+01	-0.328745751
WBGene00009248	-0.100940045	2	8.36E-01	-0.181319636
WBGene00009311	-0.335452132	23	5.61E+03	-0.429803913
WBGene00009308	-0.29865641	8	1.40E+01	-0.24494729
WBGene00001998	0.066974431	9	4.99E-01	-0.05850302
WBGene00009307	-0.044662599	7	1.21E+00	0.009780092
WBGene00003388	0.007071763	6	7.36E-01	0.020280238
WBGene00012372	-0.201242249	13	2.07E+01	-0.151133907
WBGene00001947	0.123353622	2	3.55E-01	0.085576674
WBGene00012373	-0.035398691	4	8.10E-01	-0.880312053
WBGene00012374	-0.16206236	7	3.21E+00	-0.186356097
WBGene00012375	-0.084470545	12	3.62E+00	-0.020649101
WBGene00002264	0.267794724	19	1.31E-02	0.481993388
WBGene00000274	-0.023427151	83	1.80E+03	-0.107310201
WBGene00008859	-0.868225778	9	6.10E+03	-2
WBGene00001459	0.144683691	6	2.66E-01	-0.01147348

WBGene00008860	0.216456367	3	2.22E-01	0.11559023
WBGene00008861	-0.391660399	9	5.04E+01	-0.684528956
WBGene00008862	-0.091964308	8	2.10E+00	-0.17193663
WBGene00008863	-0.49631084	4	1.07E+01	-0.596145963
WBGene00012985	-0.019087037	2	6.12E-01	-0.036211057
WBGene00012989	-0.086486004	58	4.58E+03	-0.07111693
WBGene00012988	-0.021203007	10	1.33E+00	0.059859628
WBGene00012987	-0.442676621	8	5.25E+01	-0.053862748
WBGene00003119	0.00662753	20	2.01E+00	-0.083041312
WBGene00012990	-5.80E-06	11	1.14E+00	-9.11E-07
WBGene00012992	0.000735511	4	6.61E-01	-0.023696601
WBGene00012993	-0.083848673	20	1.22E+01	-0.070644844
WBGene00012998	-0.054604946	7	1.32E+00	0.008857151
WBGene00012994	0.025651294	21	1.46E+00	-0.066635323
WBGene00012995	0.018879303	17	1.31E+00	-0.000947017
WBGene00012996	0.004139302	2	5.60E-01	0.006441487
WBGene00001162	-0.026763635	16	2.61E+00	0.000148854
WBGene00012997	-0.047294571	12	2.26E+00	0.181277243
WBGene00013014	-0.022299628	28	7.80E+00	-0.052079379
WBGene00013015	0.123575708	9	2.82E-01	0.06108546
WBGene00013017	-0.019852219	8	1.09E+00	-0.118962221
WBGene00008444	0.017115711	19	1.53E+00	-0.018281132
WBGene00004116	-0.006477928	22	3.08E+00	0.063266096
WBGene00008446	0.211505182	15	5.97E-02	-0.033472356
WBGene00008447	-0.170031431	6	2.72E+00	0.256174502
WBGene00008448	-0.667266592	27	1.48E+08	-0.633678699
WBGene00000113	-0.017784612	26	5.73E+00	-0.020555928
WBGene00009739	-0.086623788	5	1.26E+00	0.019026606
WBGene00009740	-0.059025471	3	8.12E-01	0.257832978
WBGene00009741	-0.372675596	3	3.55E+00	-0.236992741
WBGene00009742	0.130519643	3	3.32E-01	0.149852074
WBGene00010069	0.086772512	8	4.09E-01	-0.322855207
WBGene00010070	-0.629226799	54	1.71E+15	-0.762947903
WBGene00010071	-0.576336016	22	7.11E+05	-0.409095555
WBGene00013011	0.17360416	63	2.60E-03	-0.131436922
WBGene00013001	-0.106619361	35	2.55E+02	-0.00280939
WBGene00303002	0.062102553	7	5.01E-01	-0.034840568
WBGene00013000	0.014488266	11	9.62E-01	0
WBGene00013002	-0.03251784	20	4.38E+00	-0.029804189
WBGene00013004	0.000112601	7	8.37E-01	0
WBGene00013006	0.029434302	18	1.15E+00	-0.020821397
WBGene00013007	-0.02679341	8	1.16E+00	-0.050750016
WBGene00013013	-0.298076088	4	3.53E+00	-0.05116429
WBGene00013008	-0.058577595	5	1.05E+00	-0.026239744
WBGene00013009	-0.584544164	2	5.29E+00	-0.309441613
WBGene00000804	0.182200977	10	1.44E-01	-1
WBGene00000819	-0.274577737	9	1.55E+01	-0.288920395

WBGene00001768	0.140393668	11	2.16E-01	-0.450695294
WBGene00001772	0.1988401	5	1.97E-01	-0.190459893
WBGene00001763	-0.183377398	5	2.36E+00	0.042896508
WBGene00001762	-0.15290054	5	1.94E+00	-0.016480835
WBGene00001760	-0.490190645	7	4.85E+01	-0.432856855
WBGene00001764	0.285870806	5	1.12E-01	-0.662586604
WBGene00001767	-0.058030242	7	1.35E+00	-0.160558269
WBGene00001765	0	6	7.76E-01	0
WBGene00001766	-0.074840411	6	1.35E+00	-0.213612549
WBGene00006404	-0.167797035	12	1.05E+01	-0.157205792
WBGene00007836	-0.273859555	11	2.93E+01	-0.196017029
WBGene00007837	-0.275233049	4	3.10E+00	-0.060422767
WBGene00045289	-0.180089821	14	1.97E+01	0.030731374
WBGene00007840	-0.111671776	17	1.24E+01	-0.048466313
WBGene00007841	-0.031800747	5	8.82E-01	-0.108573646
WBGene00012999	0.004982938	71	8.63E+01	-0.004345758
WBGene00002235	-0.035156777	22	5.74E+00	-0.128866611
WBGene00013207	-0.361656694	12	1.24E+02	-0.406590499
WBGene00044084	-0.000380706	5	7.19E-01	-0.09112366
WBGene00013208	-0.046868186	7	1.24E+00	0.153428614
WBGene00013210	0.045246642	2	4.79E-01	0.220753709
WBGene00013209	-0.04212587	16	3.35E+00	-0.406947382
WBGene00013211	-0.076456738	2	7.61E-01	-0.158352034
WBGene00011056	-0.438424537	4	7.74E+00	-0.783770215
WBGene00003246	-0.051025504	14	3.03E+00	0.063938926
WBGene00011055	-0.009533999	13	1.52E+00	-0.065113411
WBGene00011054	0.007962148	9	9.03E-01	0.035347841
WBGene00011052	-0.491367143	11	3.86E+02	-0.467399092
WBGene00011053	-0.00316701	6	7.94E-01	-0.073967957
WBGene00194890	-0.162110077	39	3.93E+03	-0.117980177
WBGene00007220	-0.25561466	26	2.32E+03	-0.189102701
WBGene00013934	0.178926147	44	9.09E-03	0.146090517
WBGene00001890	0.01313556	1	5.07E-01	0.00348684
WBGene00001889	0.010387087	2	5.47E-01	0.002757256
WBGene00001888	0	2	5.69E-01	0
WBGene00001887	0	3	6.15E-01	0
WBGene00001886	0	1	5.26E-01	0
WBGene00001885	0	2	5.69E-01	0
WBGene00001884	0	2	5.69E-01	0
WBGene00001883	0	3	6.15E-01	0
WBGene00001899	0	4	6.64E-01	0
WBGene00001900	0	2	5.69E-01	0
WBGene00001918	0.030100096	2	5.07E-01	0.064759723
WBGene00001917	0.037934367	1	4.71E-01	0.081614994
WBGene00001916	2	4	1.02E-04	1
WBGene00008576	0.398516079	9	1.77E-02	0.32218063
WBGene00008577	1	5	1.39E-04	0.928167045

WBGene00002120	2	5	1.60E-05	1
WBGene00008578	0.137266959	9	2.46E-01	0.241611507
WBGene00008579	-0.033907749	10	1.53E+00	0.183989598
WBGene00013093	-0.070154623	52	8.21E+02	-0.047996134
WBGene00013094	-0.002338055	10	1.08E+00	-0.029941409
WBGene00013095	-0.008917707	13	1.51E+00	0.035980424
WBGene00001838	0.032658364	22	1.32E+00	-0.067800359
WBGene00013096	0.0590913	20	7.09E-01	-0.107431319
WBGene00012197	0.11437671	7	3.25E-01	0.21381677
WBGene00012198	-0.144444904	32	4.83E+02	-0.177982621
WBGene00012199	-0.169272977	15	2.12E+01	-0.560798688
WBGene00012200	-0.461696064	18	8.37E+03	-0.743269785
WBGene00044074	-0.238429208	18	1.47E+02	-0.194400919
WBGene00001988	-0.166427667	3	1.35E+00	0.283519964
WBGene00012328	-0.779093558	14	1.19E+05	-0.748797397
WBGene00012329	-0.29917445	5	5.01E+00	-0.391204963
WBGene00012330	-0.221245903	15	4.72E+01	-0.425365185
WBGene00012332	-0.428435897	17	2.89E+03	-0.324091191
WBGene00012334	0.066151246	6	4.76E-01	0
WBGene00012333	-0.25987542	5	3.88E+00	-0.082368509
WBGene00012722	-0.235516312	10	1.40E+01	-0.078309447
WBGene00012723	-0.195607826	9	7.01E+00	0.256237708
WBGene00012724	-0.062441943	6	1.23E+00	-0.267812028
WBGene00012728	-0.259192438	2	1.53E+00	-0.134542444
WBGene00012729	-0.359105883	9	3.63E+01	-0.776606622
WBGene00303087	-0.227150512	1	1.02E+00	-0.412997943
WBGene00012725	-0.716704691	5	7.54E+01	-0.94674648
WBGene00012726	-0.265834381	13	5.01E+01	-0.378088609
WBGene00012727	-0.983329594	2	2.42E+01	0.091204683
WBGene00008492	-0.178830099	3	1.43E+00	-0.073571032
WBGene00008493	-0.612084558	2	5.88E+00	-0.040241297
WBGene00008494	-0.04187122	1	5.95E-01	-0.009223184
WBGene00008495	-0.88323095	6	5.28E+02	-0.325357982
WBGene00008496	-0.120541949	10	3.96E+00	-0.538354353
WBGene00008497	-0.157432445	10	5.93E+00	-0.140928835
WBGene00008498	0.023311531	7	6.91E-01	-0.132216757
WBGene00008499	-0.43699619	11	2.03E+02	-0.645992229
WBGene00008500	0.025975877	5	6.06E-01	0.034591236
WBGene00000901	0.445719495	25	6.55E-05	-0.312516532
WBGene00012187	0.132797202	5	3.03E-01	-0.055342414
WBGene00012188	0.305896617	6	8.10E-02	0.193746773
WBGene00002275	0.019381551	8	7.58E-01	0.005977743
WBGene00012730	0.05864749	46	1.38E+00	0.022442627
WBGene00000662	-0.249318469	25	1.46E+03	-0.390971217
WBGene00012731	-0.054146352	7	1.31E+00	-0.007682209
WBGene00014569	0.146818117	4	2.92E-01	0.789136293
WBGene00001805	0.277098448	10	5.08E-02	0.081953872

WBGene00010723	0.564962425	8	5.09E-03	-0.128929987
WBGene00010722	0.850040985	25	3.47E-09	0.843940467
WBGene00010721	-0.244876141	12	2.80E+01	-0.203652999
WBGene00010720	0.030366306	14	9.27E-01	-0.010703464
WBGene00012230	0.141482853	36	6.31E-02	-0.045466653
WBGene00010719	0.055410243	15	6.63E-01	-0.236407881
WBGene00012228	0.032359706	3	5.28E-01	0.397566716
WBGene00012227	-0.47864891	12	5.50E+02	-0.650425913
WBGene00012978	0.48386601	14	1.28E-03	0.484659181
WBGene00004456	1	3	3.01E-03	0.911974381
WBGene00006964	0.21510717	38	4.06E-03	0.369959268
WBGene00001133	-0.407992863	16	1.31E+03	-0.517676822
WBGene00012979	-0.328854711	13	1.18E+02	-0.280688072
WBGene00012980	-0.05978296	34	4.71E+01	0.008320584
WBGene00000038	0.058888447	18	6.77E-01	0.3124044
WBGene00000037	0.026918489	23	1.58E+00	0.046796108
WBGene00001992	0.024728142	3	5.47E-01	0.080514407
WBGene00012981	-0.327681299	13	1.16E+02	-1
WBGene00012984	-0.007023212	13	1.47E+00	0.023486787
WBGene00012983	0.053807146	14	6.60E-01	-0.168459718
WBGene00012982	0.173028053	23	5.84E-02	0.187387073
WBGene00001971	1	2	1.07E-02	0.774333233
WBGene00013213	-0.005092182	7	8.74E-01	-0.10532165
WBGene00235256	0	2	5.69E-01	0.262232993
WBGene00013212	0.007145889	18	1.73E+00	0.025772935
WBGene00013214	0.009171206	24	2.52E+00	0
WBGene00005264	-0.108340783	3	1.02E+00	-0.037910815
WBGene00005265	-0.34313191	4	4.54E+00	0.125353596
WBGene00013215	-0.291678512	18	3.86E+02	-0.130457111
WBGene00013216	-0.165162907	12	1.01E+01	-0.672726961
WBGene00000831	-0.792118982	21	3.48E+07	-1
WBGene00000830	-0.395931332	22	1.43E+04	-0.477344761
WBGene00013220	-0.400581741	24	3.77E+04	-0.545600452
WBGene00013221	0.064436967	11	5.32E-01	0.007465297
WBGene00013217	-0.013831646	8	1.03E+00	0.117126234
WBGene00013218	0.031675811	7	6.45E-01	-0.020375365
WBGene00002996	-0.084453748	6	1.45E+00	-0.332580626
WBGene00185067	0.021630519	3	5.55E-01	-0.043341235
WBGene00013219	0.318079708	4	1.12E-01	0.013318437
WBGene00011050	0.129076744	36	9.64E-02	-0.19053641
WBGene00011051	0.157273477	23	8.33E-02	-0.605839395
WBGene00011047	0.424736749	17	1.22E-03	-0.136084826
WBGene00002076	0.382609382	36	1.67E-05	0.371530365
WBGene00000059	-0.031626755	19	3.87E+00	-0.19863953
WBGene00011049	-0.901519541	17	9.92E+06	-0.981283791
WBGene00003220	-0.19906243	15	3.36E+01	-0.027633661
WBGene00195149	0.171781507	4	2.54E-01	-0.258886104

WBGene00009179	0.047565412	2	4.74E-01	-0.33241216
WBGene00009180	0.094704527	59	2.65E-01	0.097803132
WBGene00009182	0.031762333	7	6.44E-01	-0.147170675
WBGene00194892	-0.15185802	3	1.26E+00	0.104449602
WBGene00001371	0.114464254	6	3.33E-01	-0.016180451
WBGene00004048	-0.241251057	28	2.90E+03	-0.328210016
WBGene00010550	0.052981109	21	8.25E-01	0.032977752
WBGene00010551	-0.198104167	19	9.14E+01	0.043224316
WBGene00013222	0.05962971	19	6.85E-01	0.126031666
WBGene00007545	0.490204897	24	3.18E-05	0.471347388
WBGene00006856	0.326615844	13	1.55E-02	0.40072971
WBGene00010758	0.215435817	12	7.93E-02	0.31532081
WBGene00010759	-0.034560473	8	1.24E+00	0.492998345
WBGene00000972	0.407353261	6	3.83E-02	0.270276531
WBGene00010760	-0.177266717	5	2.27E+00	0.050383335
WBGene00010761	0.067858931	2	4.39E-01	0.099403019
WBGene00010762	-0.010990736	1	5.44E-01	0.009961173
WBGene00045403	-0.270049108	6	5.70E+00	0.115653981
WBGene00010763	-0.700122428	3	1.66E+01	-0.212134639
WBGene00010765	-0.063339432	3	8.28E-01	-0.067003222
WBGene00194888	-0.06102822	4	9.35E-01	-0.266903504
WBGene00010764	-0.072835233	2	7.51E-01	0.036996523
WBGene00010194	-0.421497914	8	4.32E+01	-0.437279782
WBGene00010193	-2	7	4.73E+05	-0.631658718
WBGene00010195	-0.346145929	3	3.14E+00	-0.048628837
WBGene00010196	-0.346390046	2	2.13E+00	0.104803746
WBGene00010197	-0.036133807	3	7.29E-01	0.014231385
WBGene00010198	-0.098153894	7	1.89E+00	-0.105443954
WBGene00007312	-0.224345838	3	1.77E+00	0.062500378
WBGene00007313	-0.008782302	3	6.41E-01	0.005162407
WBGene00007315	-0.245432922	4	2.63E+00	-0.115513202
WBGene00007314	-0.051662166	10	1.86E+00	-0.000892358
WBGene00007316	-0.000783577	3	6.17E-01	0.001141081
WBGene00003392	-0.019909675	27	6.64E+00	-0.023431885
WBGene00007242	0.011007925	8	8.19E-01	-0.111452855
WBGene00044333	-0.609329659	11	1.56E+03	-1
WBGene00007243	-0.938046786	4	1.27E+02	-1
WBGene00007249	-2	8	2.12E+06	-1
WBGene00007250	-0.832756955	6	3.64E+02	-1
WBGene00007251	-1	4	3.75E+02	-1
WBGene00007244	-1	4	3.42E+02	-0.830062518
WBGene00007245	-0.709527244	5	7.19E+01	-0.521271168
WBGene00007246	-0.568154696	4	1.60E+01	-0.740046512
WBGene00007247	-0.392032446	19	3.64E+03	-0.667553008
WBGene00007248	-0.381616254	31	4.51E+05	-0.547839868
WBGene00006603	0.184567142	36	1.45E-02	0.168186614
WBGene00008963	0.093840025	2	3.98E-01	0.220766598

WBGene00000188	-0.068416521	6	1.29E+00	0.311255687
WBGene00008964	0.173634533	27	4.23E-02	0.310564724
WBGene00008965	-0.218140041	9	8.79E+00	-0.176549913
WBGene00007999	-0.115745236	12	5.40E+00	0.107867613
WBGene00007998	0.23398317	14	4.82E-02	0.155324952
WBGene00007996	1	8	2.01E-05	1
WBGene00007997	3	5	1.16E-08	2
WBGene00000225	0.871353616	11	3.75E-05	0.899729629
WBGene00006787	0.068580103	138	4.01E+00	-0.112405648
WBGene00013852	-0.771792439	13	4.96E+04	-0.962663317
WBGene00010491	0.101676795	2	3.86E-01	0.0823585
WBGene00007478	-0.345145092	2	2.12E+00	-0.677784471
WBGene00007479	-0.396046611	35	3.88E+06	-0.498918799
WBGene00007480	-0.154426657	33	8.13E+02	-0.252446864
WBGene00013187	-0.135067098	14	1.03E+01	-0.121290712
WBGene00013188	-0.062011661	7	1.40E+00	-0.002338567
WBGene00006381	0.04601845	7	5.73E-01	0.08251923
WBGene00013189	-0.064270839	66	4.08E+03	-0.059445885
WBGene00013190	-0.107285021	4	1.21E+00	-0.003755627
WBGene00013192	-0.208523625	8	6.13E+00	0.09021414
WBGene00013193	-0.007279942	6	8.18E-01	0.135310897
WBGene00013194	-0.219085774	6	3.91E+00	0.515744746
WBGene00013195	0.802837911	5	3.91E-03	1
WBGene00001225	0.839326466	17	9.73E-07	0.495529485
WBGene00013196	0.680948052	8	1.76E-03	0.468819153
WBGene00012180	0.878581053	12	1.70E-05	1
WBGene00012181	-0.035056378	3	7.25E-01	0.367964149
WBGene00012183	0.095288366	3	3.92E-01	0.075188218
WBGene00012182	0.17860536	18	7.76E-02	0.128080489
WBGene00012179	1	2	2.47E-03	1
WBGene00003651	-0.086612869	93	1.04E+06	-0.10066654
WBGene00000399	-0.486150728	35	7.78E+07	-0.315044479
WBGene00011042	-0.369207092	7	1.78E+01	-0.474939769
WBGene00011046	-0.038476905	2	6.59E-01	-0.008684078
WBGene00011043	-0.009256055	9	1.07E+00	-0.003776773
WBGene00011045	0	3	6.15E-01	0
WBGene00011044	-0.007217867	30	6.13E+00	-0.030008317
WBGene00013148	0.119458386	4	3.40E-01	0.105368808
WBGene00000584	0.066718318	10	5.09E-01	-0.078588267
WBGene00010987	0.023480156	8	7.30E-01	0.125264178
WBGene00008443	0.136550156	46	4.79E-02	0.106813564
WBGene00013149	-0.083497652	6	1.44E+00	-0.102932725
WBGene00001247	-0.513352923	17	1.25E+04	-0.28646851
WBGene00013150	-0.036442964	4	8.15E-01	-0.274472165
WBGene00013151	0.084046015	17	4.28E-01	0.116173258
WBGene00044720	0.524935213	8	7.35E-03	0.438237588
WBGene00013152	0.000146289	3	6.14E-01	-0.001753543

WBGene00044726	-0.103192043	8	2.33E+00	-0.150957333
WBGene00013154	-0.011533492	2	5.94E-01	-0.007778714
WBGene00013157	-0.25106325	10	1.66E+01	-0.199244103
WBGene00013156	-0.004584575	30	5.69E+00	0.143641934
WBGene00013158	0.095718395	7	3.79E-01	0.272835141
WBGene00194905	0.606438104	2	5.62E-02	0.008159261
WBGene00013159	0.410166756	13	4.97E-03	0.519288599
WBGene00013160	0.004888601	20	2.08E+00	-0.011730654
WBGene00013161	-0.000986267	2	5.71E-01	0.001612769
WBGene00000208	-0.052002497	35	4.14E+01	0.089720875
WBGene00013162	-0.001799659	9	9.96E-01	-0.010349326
WBGene00013163	-0.100597628	13	5.26E+00	-0.082809379
WBGene00013164	0	15	1.56E+00	-0.02822322
WBGene00013165	-0.055673349	4	9.07E-01	-0.033150426
WBGene00013166	-0.110914516	20	2.08E+01	-0.150620977
WBGene00013167	-0.035663347	26	8.99E+00	-0.007188443
WBGene00013176	-0.035270588	12	1.94E+00	-0.065313598
WBGene00013168	-0.168204689	9	5.32E+00	-0.025728407
WBGene00013169	-0.005190714	3	6.30E-01	0.007914062
WBGene00219491	-0.269946148	7	7.83E+00	-0.673841903
WBGene00013170	-0.232844927	7	5.76E+00	-0.076427131
WBGene00013171	-0.032350962	10	1.51E+00	-0.017745884
WBGene00013172	-0.002065465	2	5.73E-01	-0.001473131
WBGene00013173	-0.137268526	10	4.76E+00	0.02445213
WBGene00004234	0.062032353	12	5.60E-01	0.056173034
WBGene00001774	0.36737217	5	6.61E-02	0.503064048
WBGene00001775	0.977483658	5	1.26E-03	1
WBGene00001776	-0.011982118	4	7.10E-01	0.193099667
WBGene00001777	-0.074168193	4	1.01E+00	0.118687485
WBGene00001787	-0.169968748	5	2.16E+00	0.493581219
WBGene00001779	0.095610054	3	3.92E-01	-0.145329496
WBGene00013175	0.134758361	6	2.87E-01	0.069114111
WBGene00001780	-0.340981945	2	2.09E+00	0.03229714
WBGene00001782	-0.178491884	9	5.90E+00	0.002853703
WBGene00001783	-0.158876038	7	3.12E+00	-0.333539743
WBGene00021598	0.226665407	8	1.13E-01	-0.011845729
WBGene00021597	0.118901927	61	6.67E-02	0.034624479
WBGene00021596	-0.150342929	11	6.79E+00	-0.132838119
WBGene00021595	0.011768295	48	1.19E+01	0.030708205
WBGene00021594	-0.21321659	20	1.59E+02	-0.303909592
WBGene00007064	0.155154667	23	8.74E-02	0.280830801
WBGene00008352	-0.283708954	8	1.22E+01	-0.620746702
WBGene00019183	-0.112536425	19	1.80E+01	0.022182026
WBGene00003670	0.147402092	6	2.61E-01	-0.073278013
WBGene00019182	0.029499536	2	5.08E-01	-0.025334327
WBGene00019184	0.000630854	5	7.15E-01	0.003286133
WBGene00019185	0.77487524	14	1.86E-05	0.518883883

WBGene00021041	-0.155286117	13	1.11E+01	-0.055974041
WBGene00000663	-0.102506744	7	1.96E+00	0.021931987
WBGene00021040	-0.182541591	6	2.99E+00	0.054096205
WBGene00021042	-0.051460062	3	7.83E-01	-0.066780657
WBGene00021043	0.149256555	25	8.93E-02	-0.924459857
WBGene00005014	0.362383709	5	6.82E-02	0.302855306
WBGene00018794	0.110253895	46	1.49E-01	0.241480464
WBGene00018795	0.00101333	1	5.25E-01	0.031647668
WBGene00018793	0.067319085	2	4.40E-01	0.051325827
WBGene00003931	0.36179827	16	4.60E-03	0.508398577
WBGene00016222	0	5	7.18E-01	0
WBGene00016223	0	1	5.26E-01	0
WBGene00016221	-0.451635482	13	6.31E+02	-0.762204028
WBGene00016220	-0.258454275	11	2.44E+01	0.110637667
WBGene00016219	-0.175693455	9	5.74E+00	-0.031278634
WBGene00016226	-0.468889901	2	3.40E+00	-0.322827893
WBGene00016218	-0.48608167	4	1.01E+01	-0.578939189
WBGene00016227	0.008614423	3	5.90E-01	-0.287694948
WBGene00016217	0.090066737	3	4.02E-01	-0.006982392
WBGene00016216	0.240835852	7	1.14E-01	0.113418172
WBGene00020540	0.736336181	16	1.02E-05	0.295278586
WBGene00020541	-0.720673483	3	1.83E+01	0.313989722
WBGene00020542	-0.586622958	4	1.78E+01	0.352240989
WBGene00020543	-0.21238954	6	3.72E+00	-0.053367823
WBGene00020548	-0.067774288	2	7.37E-01	-0.383632144
WBGene00020544	-0.258669022	5	3.85E+00	-0.566257029
WBGene000269434	-0.012615572	1	5.46E-01	-0.024624915
WBGene00020546	-0.201905283	11	1.25E+01	0.306077018
WBGene00006894	0.224470681	28	9.90E-03	0.583070527
WBGene00018244	-0.161485894	5	2.05E+00	-0.321788666
WBGene00018243	-0.804032908	2	1.22E+01	-0.260689251
WBGene000189954	-0.209317622	7	4.74E+00	-0.292178605
WBGene00018245	-0.469238797	5	1.51E+01	-0.289356258
WBGene00018247	-0.043304937	3	7.54E-01	-0.177836598
WBGene000189955	-0.018358974	1	5.55E-01	-0.117575441
WBGene00018246	-0.297074044	6	6.96E+00	-0.288582957
WBGene00018248	-0.090814315	6	1.52E+00	-0.067328347
WBGene00018242	-0.22947986	5	3.19E+00	0.099278175
WBGene00077531	-0.293666435	6	6.79E+00	-0.295529415
WBGene00018241	-0.27317304	3	2.22E+00	-0.098630821
WBGene00003510	0.107478847	2	3.77E-01	0.073559555
WBGene00006715	0.050781343	5	5.16E-01	0.004282385
WBGene00018240	0.04115148	2	4.86E-01	-0.034558831
WBGene00018239	-0.160111089	5	2.03E+00	-0.014986543
WBGene000185078	0.032012722	22	1.34E+00	-0.032278405
WBGene00021124	0.003919486	6	7.53E-01	-0.006640486
WBGene00002230	-0.017192629	33	1.08E+01	0.036201079

WBGene00021755	0.358935053	13	9.99E-03	0.248192093
WBGene00021754	-0.008575552	23	3.51E+00	0.088843638
WBGene00021753	0.007315592	9	9.09E-01	0.015963785
WBGene00021752	0.008242921	17	1.58E+00	0.003995608
WBGene00021757	0	3	6.15E-01	0.003602047
WBGene00194737	-0.193608215	17	5.09E+01	-0.229626764
WBGene00021751	-0.168579073	86	2.25E+08	-0.208197655
WBGene00000081	-0.002608872	24	3.33E+00	-0.297825046
WBGene00021758	-0.000475564	2	5.70E-01	-0.001542514
WBGene00021756	0.042585678	15	8.08E-01	0.063278218
WBGene00001561	0.400496492	113	3.91E-15	0.071156923
WBGene00004045	0.59073206	49	3.93E-11	0.178523522
WBGene00019636	0.024545786	7	6.84E-01	0.092455829
WBGene00019639	-0.453304127	3	5.19E+00	-0.631597226
WBGene00019638	-0.212439944	2	1.28E+00	-0.241227169
WBGene00021909	-0.3697382	10	6.08E+01	-0.566827207
WBGene00303093	-0.940456087	6	8.06E+02	-1
WBGene00021910	-0.024409521	12	1.69E+00	-0.014030205
WBGene00021913	0.026676854	11	8.33E-01	-0.232878894
WBGene00021912	0.043854231	18	8.89E-01	0.306104597
WBGene00021911	-0.301041039	7	1.01E+01	-0.168539922
WBGene00044401	0.445512834	19	4.49E-04	0.337460961
WBGene00021914	0.075511707	16	4.91E-01	0.092326652
WBGene00017328	0.185908924	13	1.06E-01	-0.176368527
WBGene00003134	-0.198239817	21	1.53E+02	-0.151926931
WBGene00003770	-0.012806026	1	5.46E-01	-0.221446839
WBGene00044288	0.638812429	3	3.04E-02	0.385559988
WBGene00006781	0.32043722	24	1.70E-03	0.263221622
WBGene00017937	-0.521285003	31	2.86E+07	-0.890779325
WBGene00020704	-0.452658142	13	6.39E+02	-0.575814644
WBGene00020702	-0.558340155	20	1.52E+05	-0.435999217
WBGene00020703	0.224777286	13	6.23E-02	-0.340797116
WBGene00020701	-0.012899088	10	1.22E+00	0.133967582
WBGene00015155	-0.117989315	46	2.78E+03	-0.058791272
WBGene00021904	-0.655820981	5	5.08E+01	-0.146520251
WBGene00021905	-0.155089956	18	3.26E+01	-0.100495377
WBGene00021906	-0.003253928	20	2.45E+00	0.074349373
WBGene00002269	-0.158228676	8	3.87E+00	0.108810213
WBGene00021907	-0.656532695	10	1.41E+03	-0.672505753
WBGene00021908	-0.764061288	5	1.02E+02	-0.81127728
WBGene00020566	-0.499155487	4	1.09E+01	-0.349125687
WBGene00020559	-0.465739007	14	1.25E+03	-0.282853571
WBGene00020561	0.623649377	7	4.80E-03	0.433940773
WBGene00020560	-0.202953801	12	1.64E+01	-0.248418986
WBGene00020562	0.226200859	11	7.83E-02	0.777498343
WBGene00020563	-0.030526019	7	1.08E+00	0.02643447
WBGene00020564	-0.000130266	5	7.18E-01	-0.022280281

WBGene00001412	-0.106773132	15	8.08E+00	-0.368966468
WBGene00020565	0.04420434	3	4.99E-01	0.345631048
WBGene00021063	0.124403881	6	3.09E-01	-0.087564303
WBGene00044319	0	1	5.26E-01	0
WBGene00044318	0.003184263	3	6.06E-01	-0.01309244
WBGene00021061	0.170785803	16	1.04E-01	0.173924159
WBGene00015648	0.116699863	37	1.43E-01	0.014135285
WBGene00015647	-0.729211375	16	2.47E+05	-0.1660273
WBGene00015649	-0.306200392	10	3.03E+01	-0.504074744
WBGene00020923	-0.307668926	3	2.62E+00	-0.334742208
WBGene00001709	0.993247732	18	3.07E-08	0.893661691
WBGene00020924	0.116071836	9	3.04E-01	0.276378535
WBGene00020927	-0.445210531	20	1.61E+04	-0.304153259
WBGene00016029	-0.084240774	79	1.00E+05	-0.003697717
WBGene00016030	0.16471104	17	1.07E-01	0.148886393
WBGene00016028	-0.049373061	2	6.87E-01	-0.002183332
WBGene00003936	-0.306088678	77	4.86E+11	-0.296663566
WBGene00020550	-0.140495177	9	4.02E+00	-0.246624902
WBGene00020551	-0.116426332	8	2.63E+00	-0.121047384
WBGene00018363	-0.501308568	5	1.86E+01	0.218105971
WBGene00004212	0.313573373	25	1.63E-03	0.154176241
WBGene00018365	0.117255364	4	3.44E-01	0.295816736
WBGene00000882	-0.046783854	9	1.57E+00	0.117401301
WBGene00000117	0.274812783	22	6.95E-03	-0.066577308
WBGene00018364	0.107248814	18	2.82E-01	0.176661929
WBGene00018362	0.585062872	10	1.74E-03	-0.058051614
WBGene00004922	0.390987326	16	2.86E-03	0.508304606
WBGene00004498	2	5	1.56E-05	0.924915762
WBGene00015173	0.017872299	43	6.63E+00	0.08749202
WBGene00000903	-0.758558997	17	8.48E+05	-1
WBGene00000895	-0.131893201	15	1.19E+01	-0.221962615
WBGene00019328	0.14421862	10	2.18E-01	0.304817856
WBGene00019329	-0.20639034	12	1.71E+01	-0.32544374
WBGene00019327	1	7	6.84E-05	0.388082333
WBGene00019331	0.065271091	12	5.37E-01	0.224449691
WBGene00019332	0.210352859	1	2.85E-01	0.218942004
WBGene00001392	-0.137393186	3	1.17E+00	0.135231011
WBGene00019326	0.201374899	24	2.78E-02	0.014522859
WBGene00019333	-0.066527319	2	7.33E-01	0.01279051
WBGene00004388	-0.13312184	14	9.97E+00	-0.821240415
WBGene00006430	-0.244184675	7	6.33E+00	-0.077655917
WBGene00019334	-0.18114004	21	1.07E+02	-0.363771001
WBGene00000202	0.207767761	7	1.50E-01	-0.367737027
WBGene00021170	0.156166764	13	1.59E-01	-0.085021719
WBGene00020758	-0.220166966	11	1.55E+01	-0.243411881
WBGene00020759	0	1	5.26E-01	-0.076579313
WBGene00020760	-0.002341426	4	6.73E-01	-0.04427337

WBGene00044681	-0.10150643	6	1.64E+00	-0.215858897
WBGene00020761	-0.123280237	6	1.93E+00	0.042562487
WBGene00020757	0.358214196	7	4.32E-02	0.248498835
WBGene00020762	0.501286398	26	1.17E-05	0.266058843
WBGene00020763	0.05684005	22	7.82E-01	0.155638767
WBGene00017758	-0.019796675	19	3.09E+00	-0.222538392
WBGene00017759	-0.216744209	7	5.04E+00	-0.406156133
WBGene00017760	0.037853505	19	1.04E+00	-0.016376415
WBGene00017763	0.26342535	4	1.52E-01	0.407979687
WBGene00000263	0.083290068	2	4.14E-01	0.146686074
WBGene00017757	-0.088693103	8	2.04E+00	-0.498342296
WBGene00017761	-0.279323692	11	3.13E+01	-0.237195948
WBGene00017762	-0.408098851	8	3.82E+01	-0.031665098
WBGene00003969	0.024786004	18	1.26E+00	0.079612589
WBGene00020453	-0.309391732	9	2.20E+01	0.013946485
WBGene00020454	-0.359654613	2	2.24E+00	-0.305142139
WBGene00020452	-0.075964582	5	1.18E+00	-0.301864285
WBGene00020455	-0.327893488	16	3.54E+02	-0.23282803
WBGene00020456	0.032500492	5	5.81E-01	-0.163260695
WBGene00020459	-0.426908178	8	4.54E+01	-0.360983616
WBGene00020457	0.038629699	8	6.35E-01	-0.626512914
WBGene00020451	0.105698683	4	3.67E-01	-0.038683468
WBGene00020450	0.172786223	3	2.72E-01	0.114976061
WBGene00050914	0.43700412	3	7.85E-02	-0.013507209
WBGene00050913	0.125769934	3	3.40E-01	-0.520948812
WBGene00020449	0.040039164	5	5.53E-01	-0.256008829
WBGene00020448	-0.105988882	5	1.43E+00	0.036141808
WBGene00019913	-0.096034491	32	1.10E+02	0.320625827
WBGene00019915	-0.03879324	29	1.36E+01	0.243549078
WBGene00006615	0.08824787	11	4.02E-01	0.187055283
WBGene00019916	0.015499212	1	5.03E-01	0.005722407
WBGene00019914	0.020324782	6	6.67E-01	0.085237871
WBGene00189956	0.114834477	6	3.32E-01	0.306333942
WBGene00021337	0	2	5.69E-01	-0.001030144
WBGene00021338	-0.114628736	5	1.51E+00	-0.043110002
WBGene00021336	-0.154037287	11	7.09E+00	-0.153854773
WBGene00021339	-0.001524887	6	7.84E-01	-0.27794797
WBGene00021340	0.223011039	16	4.43E-02	0.271454025
WBGene00017153	0.180215929	9	1.60E-01	0.259754198
WBGene00015267	-0.027365232	9	1.29E+00	0.026465305
WBGene00015266	-0.013581011	24	4.30E+00	0.008409277
WBGene00015268	0.013544871	20	1.75E+00	0.02112718
WBGene00255598	-0.052661067	5	1.01E+00	-0.012616316
WBGene00006697	0.033646223	21	1.23E+00	0.005714742
WBGene00004277	-0.088373349	2	7.97E-01	-0.00613132
WBGene00022357	-0.375212779	4	5.43E+00	0.17249966
WBGene00003917	0.0275958	20	1.33E+00	-0.021736037

WBGene00019030	-0.086664356	11	3.19E+00	-0.041512626
WBGene00019029	-0.000271487	7	8.40E-01	-0.001760548
WBGene00022104	0.006600127	30	4.12E+00	0.066524541
WBGene00022106	0.04221529	10	6.66E-01	0.104261463
WBGene00004891	-0.011962365	6	8.47E-01	-0.04998657
WBGene00022103	-0.156772775	81	2.99E+07	-0.12641333
WBGene00022356	-0.020044583	6	8.99E-01	-0.000745273
WBGene00022490	0	3	6.15E-01	0
WBGene00022491	0	12	1.23E+00	0
WBGene00022492	0	2	5.69E-01	0
WBGene00022493	-0.015463103	5	7.94E-01	-0.007113755
WBGene00022489	-0.02387493	20	3.69E+00	0.002647266
WBGene00022488	-0.025859308	10	1.40E+00	0.203001471
WBGene00022497	-0.003941635	3	6.26E-01	0.042696691
WBGene00003978	0.032076915	10	7.44E-01	0.051608727
WBGene00022487	-0.428154243	5	1.16E+01	0.744314412
WBGene00022486	-0.03841132	8	1.29E+00	0.115212916
WBGene00022485	0.144025462	5	2.82E-01	-0.014323029
WBGene00044675	0.07782865	6	4.36E-01	0.022097334
WBGene00022484	0.000149643	4	6.64E-01	0.001353248
WBGene00022483	0	1	5.26E-01	0
WBGene00022495	-0.015728983	4	7.25E-01	-0.023789478
WBGene00022482	0	1	5.26E-01	-0.002534811
WBGene00022496	0	4	6.64E-01	0
WBGene00022481	0	1	5.26E-01	0
WBGene00013840	0	4	6.64E-01	0
WBGene00013839	-0.020973029	3	6.78E-01	-0.039911438
WBGene00013838	-0.008859156	3	6.41E-01	-0.003867912
WBGene00013836	-0.436663015	4	7.66E+00	-0.258117023
WBGene00013837	-0.4558297	5	1.38E+01	-0.442967678
WBGene00013845	-0.092482343	5	1.31E+00	0.003152366
WBGene00013844	-0.046354297	4	8.61E-01	0.217674209
WBGene00022479	-0.412646629	5	1.05E+01	-0.574649857
WBGene00022478	-0.640984236	6	8.83E+01	-0.001777037
WBGene00022477	-0.158155532	8	3.86E+00	-0.06840415
WBGene00022476	-0.008002661	2	5.86E-01	0
WBGene00022329	-0.056765284	6	1.18E+00	0.103629481
WBGene00022328	-0.047218952	7	1.24E+00	-0.113185764
WBGene00022332	-0.197723953	6	3.34E+00	-0.355673456
WBGene00022330	0.01647937	6	6.87E-01	-0.07066214
WBGene00022331	-0.093505613	6	1.55E+00	-0.052928251
WBGene00022327	-0.091151263	9	2.45E+00	-0.053073818
WBGene00022326	-0.446161347	13	5.85E+02	-0.198123909
WBGene00044402	0.026232674	4	5.73E-01	-0.175446181
WBGene00194735	-0.979834998	9	1.88E+04	-1
WBGene00022325	-0.105289391	6	1.69E+00	-0.001572853
WBGene00022324	-0.168534499	5	2.14E+00	-0.113182496

WBGene00022333	-0.326850779	5	5.99E+00	-0.264697039
WBGene00022323	-0.087559304	3	9.28E-01	-0.226016634
WBGene00022322	-0.418212236	4	6.91E+00	-0.129752986
WBGene00022321	0.002314243	3	6.08E-01	-0.031473303
WBGene00022320	-0.039528636	3	7.40E-01	-0.03951298
WBGene00022319	-0.337936771	7	1.38E+01	-0.362260446
WBGene00022318	-0.108183923	3	1.02E+00	-0.406118604
WBGene00022341	-0.114545095	8	2.59E+00	-0.382107586
WBGene00022342	0.009008393	3	5.89E-01	-0.284584147
WBGene00022340	-0.797836767	9	3.01E+03	-0.689560727
WBGene00022352	-0.017054495	4	7.31E-01	0
WBGene00022343	-0.00429266	1	5.33E-01	0
WBGene00022344	-0.387793577	7	2.08E+01	0.300207428
WBGene00255597	-0.002380941	2	5.74E-01	0.002564531
WBGene00022339	0	1	5.26E-01	0
WBGene00022345	-0.331578228	3	2.93E+00	0.092171116
WBGene00022338	-0.131667618	10	4.48E+00	-0.150272898
WBGene00194746	-0.225133315	8	7.14E+00	-0.277773689
WBGene00022346	-0.119627016	6	1.88E+00	-0.033291204
WBGene00022337	-0.265185814	9	1.41E+01	-0.615017902
WBGene00044761	-0.093106464	9	2.50E+00	-0.274323843
WBGene00022353	0.157350428	6	2.43E-01	-0.06853172
WBGene00022354	0.005539536	3	5.99E-01	0.003148289
WBGene00022347	0	4	6.64E-01	0
WBGene00001236	0.000211757	4	6.63E-01	-0.006063781
WBGene00022336	0.639188656	6	6.91E-03	-0.387786795
WBGene00022348	0.163176893	16	1.18E-01	0.160105229
WBGene00022335	0.023387813	8	7.31E-01	-0.06433431
WBGene00022349	-0.103336025	21	2.12E+01	-0.097951914
WBGene00022334	0.004272519	19	1.96E+00	0.216970024
WBGene00022350	0.04335082	55	3.77E+00	0.025518538
WBGene00019716	0.052652375	75	4.31E+00	0.045279648
WBGene00022351	0.059432844	8	5.25E-01	0.060683535
WBGene00044341	0.115233993	3	3.57E-01	0.337910264
WBGene00019715	0.056500082	11	5.85E-01	0.050393429
WBGene00004905	0.032120122	14	9.04E-01	0.041699595
WBGene00022054	0.000552453	5	7.15E-01	0.004150483
WBGene00022055	0	2	5.69E-01	0
WBGene00022053	0	2	5.69E-01	0.003758025
WBGene00022056	0.003951361	16	1.58E+00	0.111689914
WBGene00022057	-0.000845223	8	9.13E-01	0
WBGene00022052	-0.007897523	17	2.08E+00	0
WBGene00022051	0.015968797	6	6.89E-01	0.032403157
WBGene00021246	-0.0417692	5	9.41E-01	0.138052269
WBGene00004894	0.0281896	20	1.31E+00	0.055922294
WBGene00021245	0.831338199	2	2.38E-02	0.748085868
WBGene00021247	0.175351551	9	1.68E-01	0.123344569

WBGene00021248	0.863775614	5	2.63E-03	1
WBGene00002025	0.880594734	24	3.35E-09	0.709219123
WBGene00021244	0.005367814	12	1.15E+00	0.014026067
WBGene00021249	0.000389577	6	7.73E-01	0.001204278
WBGene00021243	-1	5	9.31E+02	-0.674086842
WBGene00021250	-0.258864574	4	2.83E+00	-0.542499877
WBGene00021251	-0.044448257	1	5.99E-01	0
WBGene00021241	-0.009754447	6	8.33E-01	-0.008481939
WBGene00021252	0	2	5.69E-01	0
WBGene00021253	0	6	7.76E-01	-0.040755597
WBGene00021254	0.044025335	6	5.60E-01	0.036087879
WBGene00021257	0	1	5.26E-01	0
WBGene00021259	0.108467272	5	3.55E-01	0
WBGene00021260	-0.011937521	8	1.01E+00	0.096319029
WBGene00021261	-0.635180608	24	9.24E+06	-0.483797035
WBGene00021266	-0.146697305	4	1.51E+00	-0.048037033
WBGene00005141	0.022950651	8	7.34E-01	-0.198425951
WBGene00021262	-1	12	4.47E+05	-0.288143835
WBGene00021263	0	1	5.26E-01	0
WBGene00021264	-0.251469534	11	2.25E+01	-0.346761421
WBGene00021256	-0.203227357	32	2.92E+03	-0.213914084
WBGene00004779	0.107012753	9	3.33E-01	0.108375563
WBGene00021593	-0.064702063	6	1.25E+00	-0.057525015
WBGene00194738	-0.000723149	1	5.28E-01	-0.002673949
WBGene00021592	-0.247467857	6	4.82E+00	-0.271484061
WBGene00000560	0	4	6.64E-01	0
WBGene00044798	-0.035281585	9	1.40E+00	0
WBGene00021442	-0.002532102	8	9.27E-01	0.019524116
WBGene00021441	0	2	5.69E-01	0
WBGene00006513	0.248423577	31	3.36E-03	0.261630878
WBGene00000545	-0.106630285	21	2.27E+01	-0.038303362
WBGene00004249	0.001787928	8	8.91E-01	-0.038307878
WBGene00021443	-0.017074074	14	1.85E+00	0.031582439
WBGene00021440	0.003571767	35	6.52E+00	-0.008536878
WBGene00004163	-0.000642711	5	7.21E-01	-0.000144716
WBGene00021446	-0.146276355	5	1.86E+00	-0.119041977
WBGene00000941	-0.147357155	3	1.23E+00	-0.005668395
WBGene00021444	-0.021169328	20	3.50E+00	-0.036022212
WBGene00004886	0.041064502	5	5.50E-01	0.187357755
WBGene00021447	-0.324294172	4	4.08E+00	-0.108249151
WBGene00015243	-0.750946527	14	7.89E+04	-0.983975677
WBGene00015242	-0.227236202	18	1.20E+02	-0.531034618
WBGene00015244	0	1	5.26E-01	0.001477337
WBGene00015241	0.013919082	9	8.51E-01	-0.009845434
WBGene00015245	-0.05061978	7	1.27E+00	0.047684309
WBGene00004128	0.034427986	79	1.83E+01	-0.074102433
WBGene00018720	0	2	5.69E-01	0

WBGene00018721	0.041790783	7	5.93E-01	0.043907126
WBGene00004491	0.484348955	5	3.09E-02	0.263059537
WBGene00018723	0.52274285	2	7.74E-02	0.100308482
WBGene00020115	0.060218176	7	5.09E-01	0.003554979
WBGene00020116	-0.21647522	22	2.92E+02	-0.289089271
WBGene00189953	-0.226648472	2	1.35E+00	-0.353751526
WBGene00020117	-0.62926997	30	3.73E+08	-1
WBGene00020118	-0.283989483	16	1.73E+02	-0.317913544
WBGene00005143	-2	11	1.74E+08	-1
WBGene00206512	0.007599334	2	5.53E-01	-0.051521852
WBGene00021438	-0.025022343	4	7.64E-01	-0.216015551
WBGene00021437	-0.000389748	9	9.82E-01	0.022764937
WBGene00021436	0.546840148	17	1.49E-04	0.136202514
WBGene00021439	0.548722452	43	3.19E-09	0.658128444
WBGene00001063	-0.104644665	27	6.08E+01	-0.114245912
WBGene00019709	-0.282047921	3	2.32E+00	-0.811104496
WBGene00021433	-0.649148326	4	2.52E+01	-1
WBGene00002099	0	1	5.26E-01	0
WBGene00021434	0.006387612	2	5.55E-01	0
WBGene00021435	0.003397948	3	6.05E-01	0
WBGene00021703	-0.015411614	10	1.25E+00	-0.000823283
WBGene00021702	-0.060121697	7	1.38E+00	0.008542582
WBGene00004088	0.096191946	11	3.65E-01	0.121063556
WBGene00021701	-0.299276136	3	2.52E+00	-0.133532513
WBGene00021704	-0.070207922	7	1.50E+00	-0.032237859
WBGene00021700	-0.448245077	7	3.43E+01	-0.460059721
WBGene00021698	-0.001501538	39	1.06E+01	0.017070441
WBGene00021697	-0.027270035	67	4.74E+02	0.031719508
WBGene00021705	-0.473575695	7	4.23E+01	-0.58975522
WBGene00016524	-0.023219335	16	2.46E+00	0.057012846
WBGene00016523	-0.001127464	4	6.68E-01	-0.009417899
WBGene00189950	-0.026168007	10	1.41E+00	-0.023535488
WBGene00016525	-0.22591607	5	3.11E+00	-0.180514786
WBGene00005142	-1	9	8.03E+04	-0.531116934
WBGene00016522	-0.02106222	4	7.47E-01	-0.003652598
WBGene00016521	-0.273614248	7	8.07E+00	-0.366432389
WBGene00016527	-0.710761452	10	2.55E+03	-0.408488668
WBGene00016520	-0.693033037	10	2.10E+03	-0.322721141
WBGene00016528	-0.002932955	1	5.31E-01	-0.000369745
WBGene00016519	-0.077645775	6	1.38E+00	0.004998422
WBGene00005144	-0.510588553	9	1.67E+02	-0.520394867
WBGene00020642	-0.053816295	8	1.48E+00	-0.144461967
WBGene00020637	-0.394349956	6	1.43E+01	-0.70518185
WBGene00020640	-0.182915209	11	9.98E+00	-0.757611767
WBGene00020639	-0.011026483	5	7.71E-01	-0.059676718
WBGene00020638	-0.656032556	10	1.40E+03	-0.831011048
WBGene00044676	-0.367205364	7	1.75E+01	0.21868424

WBGene00021861	-0.308226869	4	3.73E+00	0.056043953
WBGene00021860	-0.121144216	5	1.58E+00	-0.034215269
WBGene00021862	-0.038074177	10	1.60E+00	-0.067586726
WBGene00021859	-0.116484575	7	2.20E+00	-0.074993231
WBGene00021858	0.026219558	20	1.36E+00	-0.012436577
WBGene00044403	-0.017313249	5	8.03E-01	0.067236372
WBGene00021863	0.049799545	26	1.04E+00	-0.009753537
WBGene00021864	-0.098067647	7	1.89E+00	0.072905109
WBGene00206486	0.039508636	7	6.04E-01	0.050142883
WBGene00021865	0.325320006	12	1.96E-02	0.42239466
WBGene00021857	0.131661201	24	1.43E-01	0.09991608
WBGene00021866	-0.059718194	4	9.28E-01	0.038760883
WBGene00021867	-0.133014313	4	1.40E+00	0.134423463
WBGene00021856	-0.00266633	11	1.18E+00	0.008375411
WBGene00004016	0	5	7.18E-01	0.001068963
WBGene00001589	0.036023274	24	1.34E+00	0.073898593
WBGene00005146	-0.243557533	8	8.45E+00	-0.27956584
WBGene00019150	-0.365534247	18	1.47E+03	-0.215809423
WBGene00019199	0.010515356	7	7.68E-01	0.026691288
WBGene00019200	0.063673057	4	4.65E-01	0.217512127
WBGene00000506	0	2	5.69E-01	0
WBGene00019198	0	5	7.18E-01	0
WBGene00021021	0	4	6.64E-01	0
WBGene00021022	-0.031140483	18	3.45E+00	0.152889591
WBGene00021020	-0.056728506	11	2.24E+00	0.040492235
WBGene00021019	-0.208342671	11	1.35E+01	-0.227069117
WBGene00021023	-0.068871006	6	1.29E+00	0.030227113
WBGene00017104	-0.107870501	12	4.88E+00	-0.0479251
WBGene00017105	0.127689133	2	3.49E-01	-0.067155502
WBGene00017103	-0.927382266	15	2.53E+06	-1
WBGene00003711	-0.014477792	7	9.45E-01	-0.079507066
WBGene00017102	0.039752461	3	5.10E-01	0
WBGene00017101	-0.08680598	7	1.72E+00	-0.123016683
WBGene00017100	-0.733173938	9	1.57E+03	-0.575227873
WBGene00017106	-0.010775764	2	5.93E-01	0.012142764
WBGene00017099	0	1	5.26E-01	0
WBGene00004884	0.149370336	32	6.03E-02	0.070575823
WBGene00021847	0.064351763	9	5.12E-01	0.082316443
WBGene00021852	-0.004543631	13	1.42E+00	-0.282391931
WBGene00021850	-0.468530248	8	6.66E+01	-0.394504684
WBGene00004314	0.04365795	28	1.31E+00	0.045817207
WBGene00303092	-0.006671963	1	5.37E-01	0
WBGene00021849	-0.011522846	3	6.49E-01	-0.036148637
WBGene00000464	0.209725656	63	3.17E-04	0.110783166
WBGene00001410	0.079067016	23	4.87E-01	0.127303405
WBGene00021848	-0.116180867	10	3.78E+00	-0.078708651
WBGene00021853	-0.322749569	6	8.41E+00	-0.159456786

WBGene00021855	-0.00039701	6	7.78E-01	0.000412275
WBGene00021854	0.001563282	5	7.10E-01	-0.000123387
WBGene00022197	-0.000197678	3	6.15E-01	0.027601308
WBGene00000160	0.246129478	40	1.00E-03	0.099124267
WBGene00022196	0.531348797	13	9.52E-04	-0.20690623
WBGene00007019	0.042220261	6	5.68E-01	0.041123401
WBGene00022198	0.032857257	4	5.53E-01	0.007652479
WBGene00022195	-0.12799172	23	5.20E+01	-0.169261546
WBGene00022194	-0.047242556	2	6.81E-01	-0.143126019
WBGene00022193	0.055522721	11	5.92E-01	-0.115103699
WBGene00022192	0.008147243	7	7.83E-01	0.001496175
WBGene00022191	0.005084136	4	6.46E-01	0.244100635
WBGene00019212	-0.371430058	23	1.26E+04	-0.25530782
WBGene00002915	-0.530329459	128	6.05E+30	-0.739845251
WBGene00003941	-0.018254074	10	1.29E+00	0.263923717
WBGene00303095	0.004919487	1	5.19E-01	0.005640199
WBGene00022165	0.007595947	2	5.53E-01	0.011603553
WBGene00022174	-0.011264766	16	2.02E+00	-0.012286143
WBGene00022173	0.092615424	13	3.77E-01	0.08635828
WBGene00022175	0.735979784	32	9.66E-10	0.803259442
WBGene00022176	-0.056175299	11	2.22E+00	-0.025466086
WBGene00022172	-0.001276616	3	6.18E-01	-0.000834426
WBGene00022177	-0.119484855	8	2.71E+00	-0.011195165
WBGene00022178	-0.164010584	11	7.98E+00	-0.202534079
WBGene00022179	-0.083958326	7	1.68E+00	-0.122321501
WBGene00022180	0.086096859	32	4.18E-01	-0.273786902
WBGene00022181	-0.165917193	16	2.52E+01	-0.382671014
WBGene00022182	-0.017731047	5	8.05E-01	-0.008751591
WBGene00002244	0.378378434	35	2.50E-05	0.052429977
WBGene00022171	0.107671523	8	3.37E-01	0.051040028
WBGene00022185	0.096872658	9	3.69E-01	0.236008754
WBGene00022170	0.539174899	3	4.85E-02	0.339582279
WBGene00022169	0.145671726	4	2.94E-01	0.094193976
WBGene00044609	0.003678252	10	1.02E+00	0.087118327
WBGene00006695	-0.032129763	15	2.56E+00	0.077238023
WBGene00044760	-0.53981248	5	2.39E+01	-0.509577822
WBGene00022168	-0.153427685	11	7.04E+00	-0.117810598
WBGene00007000	0.76166538	12	7.53E-05	0.471314446
WBGene00022167	0.010727047	9	8.78E-01	-0.004090835
WBGene00022166	0.028554318	6	6.28E-01	0.041754513
WBGene00303208	0.000261806	2	5.68E-01	-0.035740701
WBGene00022188	-0.011308245	4	7.08E-01	-0.058861665
WBGene00022190	-0.227149252	6	4.15E+00	-0.533329803
WBGene00022189	-0.551681376	8	1.43E+02	-0.489196502
WBGene00019261	-0.031622076	5	8.81E-01	-0.027069214
WBGene00019260	-0.474397506	6	2.58E+01	-0.376801767
WBGene00018991	-0.028361087	11	1.60E+00	-0.041064268

WBGene00018990	0.004242567	13	1.26E+00	-0.17121128
WBGene00018989	0.001820786	7	8.26E-01	0.341219907
WBGene00018988	-0.02766274	5	8.59E-01	-0.030958908
WBGene00020598	-0.703926424	16	1.63E+05	-0.341431835
WBGene00020597	-0.455209851	5	1.38E+01	-0.210677466
WBGene00020599	-0.11503714	5	1.51E+00	0.095691335
WBGene00019994	-0.219896111	79	1.89E+09	-0.3438137
WBGene00019995	-0.065881577	3	8.38E-01	-0.1169604
WBGene00019996	-0.101935436	4	1.18E+00	-0.203785405
WBGene00019997	-0.36449947	26	3.62E+04	-0.59034224
WBGene00194747	-0.057158889	7	1.35E+00	0.050793804
WBGene00019157	0.056807277	31	9.96E-01	0.036911499
WBGene00019158	0.095364659	7	3.81E-01	-0.017287134
WBGene00019159	-1	8	2.28E+04	-0.982384818
WBGene00021916	-1	5	2.27E+03	-2
WBGene00021917	-0.061080127	8	1.59E+00	0.066664371
WBGene00021915	0.004184826	4	6.49E-01	0.020897682
WBGene00021918	0.159624898	3	2.90E-01	0.240026343
WBGene00000898	0.027339146	86	4.43E+01	-0.007519997
WBGene00021919	0.022895455	7	6.93E-01	-0.078845838
WBGene00019169	-0.651027584	23	6.94E+06	-0.700273251
WBGene00019171	-0.001453605	1	5.29E-01	0.016951567
WBGene00019170	0.027679385	9	7.41E-01	0.360713364
WBGene00006725	3	3	2.70E-06	2
WBGene00019168	0.023508059	19	1.36E+00	0.049560122
WBGene00004787	-0.024343154	6	9.28E-01	0.003948847
WBGene00019167	0.141691347	17	1.59E-01	0.140775688
WBGene00021818	0	3	6.15E-01	0
WBGene00021820	-0.002614784	20	2.42E+00	-0.009774493
WBGene00021817	-0.062136783	4	9.41E-01	-0.002751637
WBGene00003175	-0.01907728	9	1.19E+00	0.281196056
WBGene00016634	0.241953986	6	1.30E-01	0.164362732
WBGene00016635	0	3	6.15E-01	0
WBGene00016633	-0.058337012	7	1.36E+00	0.037923033
WBGene00020104	-0.009193416	12	1.39E+00	-0.063726894
WBGene00020103	0.016412317	7	7.32E-01	0.295110053
WBGene00020102	0.223098431	25	1.48E-02	0.302729776
WBGene00020101	-0.32643744	5	5.98E+00	-0.436481598
WBGene00020100	-0.272346727	15	1.04E+02	-0.155634879
WBGene00020105	-0.114802623	6	1.81E+00	0.195751154
WBGene00006452	0.121807579	4	3.36E-01	-0.489613241
WBGene00001494	0.033486989	30	1.90E+00	0.18446332
WBGene00019174	-0.078459826	10	2.50E+00	-0.045588507
WBGene00021799	-0.121512236	21	3.10E+01	-0.133839713
WBGene00021800	0.182650838	10	1.43E-01	0.055307398
WBGene00050917	0	1	5.26E-01	0
WBGene00021801	0.001901196	6	7.65E-01	0.081360849

WBGene00021804	0.055890295	6	5.13E-01	-0.209675183
WBGene00021805	-0.577531101	5	3.05E+01	-0.365512023
WBGene00021806	-0.91859569	11	6.10E+04	-0.966207256
WBGene00021807	-0.068070044	7	1.47E+00	-0.213948338
WBGene00021808	-0.186354301	51	1.79E+05	-0.451777955
WBGene00021803	0.066088351	1	4.34E-01	-0.193200385
WBGene00021814	-0.024659005	7	1.03E+00	0.009300493
WBGene00021815	0.075733156	13	4.75E-01	0.077868361
WBGene00021813	0.009436525	3	5.88E-01	-0.000187402
WBGene00021812	0.046028129	10	6.39E-01	0.051408609
WBGene00021811	-0.004050302	6	7.99E-01	0.006358585
WBGene00021816	0.004646102	14	1.35E+00	0.058751707
WBGene00021810	0.084826412	10	4.17E-01	0.009717152
WBGene00021809	-0.008341271	5	7.58E-01	0.122819208
WBGene00001559	0.053039167	57	2.44E+00	0.023816516
WBGene00004183	-0.012289019	13	1.58E+00	-0.079251672
WBGene00009738	0.470909112	31	4.53E-06	0.414374548
WBGene00008348	0.084350728	6	4.16E-01	0.091847696
WBGene00003372	0.273589633	8	7.36E-02	0.430669457
WBGene00010303	0.247035037	7	1.08E-01	0.254064468
WBGene00010304	0.166484295	4	2.61E-01	0.326905058
WBGene00003795	1	15	1.37E-08	1
WBGene00010305	0.300438826	4	1.23E-01	-0.104400921
WBGene00010306	0.000610236	23	2.86E+00	0.042843264
WBGene00010450	0.325552188	6	7.00E-02	0.609300799
WBGene00010449	0.28213742	11	4.04E-02	0.452952307
WBGene00004976	-0.322779238	17	4.70E+02	-0.400979749
WBGene00010451	-0.301191391	21	1.29E+03	-0.004374821
WBGene00219295	-0.200347864	3	1.58E+00	-0.008161434
WBGene00007920	0.603246804	10	1.42E-03	0.249592039
WBGene00007921	-0.079130475	9	2.17E+00	0.11086942
WBGene00007927	0.005568433	6	7.44E-01	0.310030657
WBGene00007922	0.000810797	11	1.13E+00	0.077366106
WBGene00007923	0.082550365	4	4.18E-01	0.188701823
WBGene00007924	0.272431586	8	7.44E-02	0.276314033
WBGene00007928	-0.028357258	10	1.44E+00	0.218601937
WBGene00007925	-0.083932417	5	1.24E+00	-0.007153556
WBGene00007926	-0.414372728	13	3.79E+02	-0.22101463
WBGene00001639	-0.291355769	11	3.61E+01	0.037351884
WBGene00010815	-0.03454911	7	1.12E+00	-0.042802322
WBGene00010814	0.242429908	8	9.80E-02	0.294298832
WBGene00004428	1	6	3.04E-05	0.880020206
WBGene00010809	0.883541605	7	5.58E-04	0.490949009
WBGene00010810	0.179465874	10	1.48E-01	0.576994676
WBGene00010812	-0.659950238	5	5.21E+01	-0.269914025
WBGene00010811	-0.296208257	28	1.28E+04	-0.502219888
WBGene00010813	-0.054918094	32	3.12E+01	0.115221755

WBGene00004451	0.010637766	1	5.10E-01	0
WBGene00008288	0.001005997	7	8.31E-01	0.023811773
WBGene00000248	0.24966708	10	6.86E-02	0.232061176
WBGene00044166	-0.069354873	2	7.41E-01	0.056402168
WBGene00219296	-0.844631066	4	7.53E+01	-0.325058164
WBGene00008287	-0.818297981	3	2.90E+01	-0.709187006
WBGene00008286	-0.000912703	7	8.44E-01	0
WBGene00003605	0.104387456	18	2.97E-01	-0.152377183
WBGene00008180	-0.388369493	11	1.14E+02	-0.135594082
WBGene00004213	0.251164467	55	9.16E-05	0.29912181
WBGene00004765	-0.231406755	31	5.20E+03	-0.286398343
WBGene00007859	0.01802392	9	8.16E-01	0.094448087
WBGene00007860	0.00655752	22	2.33E+00	0.170784301
WBGene00006822	0.173741129	14	1.16E-01	-0.045237284
WBGene00008118	-0.21476278	5	2.89E+00	0.580133878
WBGene00008117	0.01589968	12	1.01E+00	-0.198831217
WBGene00008120	0.166777452	16	1.11E-01	-0.027867339
WBGene00008119	0.071022791	21	5.67E-01	0.003645079
WBGene00008121	0.422078552	9	1.40E-02	0.510598427
WBGene00012084	-0.544689362	12	1.28E+03	-0.457711045
WBGene00000885	0.368016059	12	1.13E-02	-0.021834738
WBGene00003962	0.388467467	10	1.50E-02	-0.006185654
WBGene00007573	-0.594320747	3	1.01E+01	-0.351933539
WBGene00007574	-0.621385876	4	2.16E+01	-0.099507178
WBGene00006474	-0.474734024	9	1.16E+02	-0.889171972
WBGene00007576	0.010269683	9	8.82E-01	0.16931132
WBGene00007581	0.24548604	20	1.74E-02	-0.043119648
WBGene00007577	0.188744796	12	1.11E-01	0.223502763
WBGene00007579	0.481947266	6	2.21E-02	1
WBGene00184990	-0.489311284	7	4.82E+01	-0.899545238
WBGene00007580	-0.6766913	4	2.94E+01	-0.475958947
WBGene00045484	-0.355472628	9	3.50E+01	0.003040624
WBGene00009372	-0.095811671	22	2.14E+01	0.088314843
WBGene00009377	-0.153326529	2	1.02E+00	0.074510815
WBGene00009373	-0.015982621	4	7.26E-01	0.51363739
WBGene00009374	-0.47225572	16	3.73E+03	0.131630569
WBGene00003033	-0.010804013	5	7.70E-01	-0.040628739
WBGene00009375	-0.316768206	38	8.18E+05	-0.419214879
WBGene00008091	-0.125256489	11	5.04E+00	-0.077765522
WBGene00008092	-0.829271355	9	4.12E+03	-0.365535017
WBGene00002267	-0.014796094	7	9.47E-01	0.053093515
WBGene00000070	0.527312005	41	1.66E-08	0.242733669
WBGene00003476	-0.088525856	28	4.67E+01	0.150775046
WBGene00011974	-0.298986612	7	9.96E+00	-0.721768623
WBGene00006591	-0.299347488	10	2.81E+01	-0.390865259
WBGene00001086	0.546428124	29	1.09E-06	0.443029019
WBGene00000137	0.016528378	18	1.46E+00	0.220699901

WBGene00011260	-0.551091915	14	4.32E+03	-0.723835798
WBGene00007970	0.05162702	2	4.67E-01	0.381760918
WBGene00007963	-0.8198911	9	3.75E+03	-0.74024039
WBGene00007964	-0.47067773	9	1.12E+02	-0.348865739
WBGene00014697	-0.385235975	5	8.76E+00	-0.083119577
WBGene00044167	-0.086601379	3	9.24E-01	-0.445310548
WBGene00007965	-0.065112393	9	1.88E+00	-0.207231395
WBGene00007966	-0.477818711	24	2.31E+05	-0.860958933
WBGene00007967	0.11543898	6	3.31E-01	0.392187635
WBGene00000264	-0.021776844	25	5.75E+00	0.211941051
WBGene00007969	1	13	3.58E-07	0.951539575
WBGene00004414	1	9	5.09E-06	0.477685055
WBGene00006575	0.050545256	93	8.94E+00	0.132050306
WBGene00014202	-0.097080601	22	2.20E+01	0.005720121
WBGene00003930	0.705368725	20	1.86E-06	0.682650162
WBGene00014204	-0.035410398	7	1.12E+00	0.034455696
WBGene00014203	0.045216908	5	5.35E-01	0.042275331
WBGene00014205	0.17726075	6	2.09E-01	-0.025016418
WBGene00014206	0.34960017	7	4.64E-02	0.231599106
WBGene00014207	0.595789122	6	9.52E-03	0.729618262
WBGene00009501	-0.05342374	10	1.90E+00	-0.703496664
WBGene00009502	0.02591736	9	7.54E-01	-0.356436995
WBGene00003748	-0.479372088	11	3.35E+02	-0.399320343
WBGene00009503	0.163188338	5	2.49E-01	-0.207229649
WBGene00011215	-0.173487597	6	2.79E+00	0.166855218
WBGene00011214	-0.516253674	13	1.52E+03	-0.88883565
WBGene00003423	-0.019687123	29	7.99E+00	-0.030879954
WBGene00303072	-0.07330868	1	6.52E-01	-0.323164199
WBGene00012380	-0.035044639	1	5.83E-01	-0.019242012
WBGene00012379	-0.249458566	5	3.63E+00	-0.048658103
WBGene00044230	-0.092615173	2	8.10E-01	-0.061278411
WBGene00007981	0.100542679	7	3.65E-01	-0.00815159
WBGene00007980	0.254537456	16	2.65E-02	0.093418115
WBGene00007982	0.122346453	11	2.68E-01	0.239298033
WBGene00007983	0.098680016	12	3.51E-01	0.086485191
WBGene00006537	0.537424629	11	1.96E-03	-0.123660377
WBGene00011367	-0.140406637	5	1.79E+00	-0.39915845
WBGene00011368	0.244244591	8	9.64E-02	0.218425041
WBGene00194692	0	3	6.15E-01	0
WBGene00002038	-0.254206438	24	1.22E+03	0.005490985
WBGene00004322	-0.144318117	13	9.55E+00	0.017121388
WBGene00001943	-0.13066071	4	1.38E+00	0.038275319
WBGene00001944	-0.43453374	1	1.87E+00	0.292752416
WBGene00006811	0.701178048	50	1.45E-13	0.729787336
WBGene00002202	0.053960654	11	6.03E-01	0.034998079
WBGene00007271	0.016180833	6	6.88E-01	0.025888345
WBGene00007269	0.126052991	4	3.28E-01	-0.049885927

WBGene00004392	0.664540317	12	2.59E-04	0.149985379
WBGene00007273	0.019169586	3	5.62E-01	0.229863379
WBGene00007270	0.015977961	6	6.89E-01	0.413393219
WBGene00006830	0.671028004	91	3.06E-22	0.642518589
WBGene00007631	-0.150838159	13	1.04E+01	0.048019253
WBGene00007630	0.144547038	3	3.11E-01	0.088825272
WBGene00006448	0.093059616	10	3.81E-01	0.057343441
WBGene00007629	-0.001752088	4	6.71E-01	-0.020598539
WBGene00219299	0.130636806	4	3.20E-01	0.344953339
WBGene00007628	0.272345805	7	8.79E-02	0.008538605
WBGene00004381	0.038713436	5	5.58E-01	-0.001853946
WBGene00007627	0.014037853	6	6.99E-01	0.104729894
WBGene00007626	0.164191534	6	2.31E-01	-0.061996183
WBGene00007625	-0.198537674	4	2.02E+00	0.061462551
WBGene00007624	-0.265869175	15	9.40E+01	-0.540696311
WBGene00007632	0.116674521	7	3.19E-01	0.321334715
WBGene00007623	0.141694402	6	2.72E-01	0.484978081
WBGene00007622	0.034335697	5	5.74E-01	0.047292569
WBGene00003073	0.119928264	26	1.77E-01	-0.012160898
WBGene00011278	0.303359652	6	8.25E-02	0.032030848
WBGene00206525	-0.002161509	5	7.28E-01	-0.174309734
WBGene00001034	0.311386147	8	5.21E-02	0.808102199
WBGene00006959	0.402059756	10	1.29E-02	0.155713526
WBGene00011279	0.141245827	12	2.04E-01	0.177975716
WBGene00011280	0.009998793	5	6.73E-01	0.166212221
WBGene00011281	0.135466475	8	2.61E-01	0.184275908
WBGene00011282	0.280022725	10	4.92E-02	-0.125362736
WBGene00009647	-0.117918616	13	6.66E+00	0.021375488
WBGene00003401	0.421143432	27	6.56E-05	0.437283571
WBGene00009649	-0.219145613	6	3.91E+00	0.12060655
WBGene00003619	0.434720139	9	1.23E-02	0.247469285
WBGene00023423	0.315879637	3	1.39E-01	-0.147418377
WBGene00023422	-0.028030393	1	5.71E-01	-0.040606368
WBGene00009648	0.010406299	4	6.27E-01	-0.175188485
WBGene00012858	0.130087726	11	2.45E-01	-0.150321455
WBGene00011604	0.171745447	60	3.64E-03	0.005073665
WBGene00011605	0.358758807	20	1.83E-03	0.36888356
WBGene00011198	0.648239139	14	1.17E-04	0.431068176
WBGene00006331	0.823414313	11	6.61E-05	0.256425501
WBGene00011200	-0.574088216	6	5.39E+01	0.123805374
WBGene00003157	-0.596476562	15	1.54E+04	0.006834243
WBGene00011201	-0.965193464	7	2.48E+03	-0.847098928
WBGene00011202	-0.878711531	14	5.05E+05	-0.535501662
WBGene00011203	-0.119754794	4	1.30E+00	-0.028293716
WBGene00011206	0.117068345	13	2.70E-01	0.24163796
WBGene00011205	-0.023652878	3	6.87E-01	0.408794337
WBGene00001352	0.074622875	32	5.93E-01	0.25807659

WBGene00010428	0.302172513	20	5.64E-03	-0.182589679
WBGene00006478	0.223076683	7	1.32E-01	0.46875264
WBGene00044911	0.053379089	3	4.78E-01	0.488554873
WBGene00044912	-0.162453121	4	1.65E+00	-0.26803193
WBGene00010429	0.00456865	1	5.19E-01	-0.011495335
WBGene00284844	0.010147059	2	5.47E-01	-0.044253975
WBGene00001631	-0.182989888	21	1.11E+02	-0.43511837
WBGene00007135	0.204111168	26	2.12E-02	0.378256968
WBGene00007136	0.035984622	3	5.19E-01	0.049721112
WBGene00007137	0.15417094	9	2.07E-01	-0.347805077
WBGene00002003	0.137903192	25	1.18E-01	0.189828546
WBGene00007138	0.032209955	8	6.74E-01	-0.006031251
WBGene00007139	0.6266927	23	2.09E-06	0.39900076
WBGene00000511	0.585611683	10	1.73E-03	0.880907967
WBGene00000512	1	7	2.67E-05	2
WBGene00000513	0.332393813	9	3.45E-02	0.931884402
WBGene00007131	0.886474125	11	3.13E-05	1
WBGene00007133	0.813953657	5	3.63E-03	1
WBGene00007132	0.026434827	5	6.05E-01	0.114063843
WBGene00007134	-0.141047893	10	4.96E+00	-0.027691045
WBGene00011112	-0.010803195	2	5.93E-01	0.009169689
WBGene00011113	-0.136709483	3	1.17E+00	-0.080225725
WBGene00011114	-0.58906153	15	1.37E+04	-0.469604644
WBGene00011120	0.028277923	9	7.36E-01	0.635868587
WBGene00011121	0.006580087	3	5.96E-01	0.245078033
WBGene00011111	0.281582873	12	3.41E-02	0.545351406
WBGene00004387	0.763986798	7	1.50E-03	2
WBGene00011110	0.384835352	8	2.65E-02	0.548142197
WBGene00011109	0.343054006	15	7.85E-03	0.257854231
WBGene00011119	0.711317091	5	7.08E-03	0.469891954
WBGene00011117	2	5	9.00E-06	2
WBGene00011116	1	12	2.24E-07	1
WBGene00303105	2	5	2.96E-05	0.846884107
WBGene00011115	1	5	1.44E-04	0.358496039
WBGene00000520	0.462139237	16	8.95E-04	0.377548578
WBGene00007791	2	22	2.46E-23	2
WBGene00007788	0.992526055	23	5.45E-10	1
WBGene00007789	-0.010293513	22	3.35E+00	0.039354521
WBGene00003590	-0.349992502	10	4.89E+01	0.345367808
WBGene00000463	1	14	6.32E-09	0.708301694
WBGene00003577	0.054653995	8	5.49E-01	0.030792893
WBGene00010155	1	7	8.80E-05	1
WBGene00004132	2	15	6.61E-14	2
WBGene00004470	1	9	9.19E-06	0.242302215
WBGene00002100	0.879431641	4	4.82E-03	0.321134041
WBGene00000465	0.467766821	7	1.74E-02	0.047674515
WBGene00000223	0.785287141	28	2.59E-09	0.677975307

WBGene00303035	0.590468428	1	9.37E-02	1
WBGene00000380	0.341637836	23	1.30E-03	0.47963957
WBGene00009115	-0.135149116	17	1.86E+01	-0.140703514
WBGene00000396	0.290979382	91	1.69E-08	0.38225445
WBGene00010904	-0.423716524	9	6.96E+01	-0.416518836
WBGene00010905	-0.091435331	6	1.52E+00	0.051712416
WBGene00010909	-0.392413075	16	1.01E+03	0.343413527
WBGene00010906	-0.480831905	9	1.24E+02	0.419661746
WBGene00010907	-0.292893635	10	2.62E+01	0.009667766
WBGene00010908	0.20702363	13	7.93E-02	0.319875188
WBGene00003915	0.799645693	20	2.85E-07	0.541233451
WBGene00009439	0.107780592	6	3.50E-01	0.424293036
WBGene00009440	0.014137065	8	7.95E-01	-0.089036578
WBGene00004762	0.737241587	33	5.20E-10	0.569091519
WBGene00009441	0.427201682	13	3.94E-03	0.238449432
WBGene00009445	0.366212003	11	1.49E-02	0.092436322
WBGene00009442	-0.283158093	9	1.69E+01	-0.367319187
WBGene00009443	-0.110107954	5	1.47E+00	-0.078227252
WBGene00004874	-0.110313052	24	4.16E+01	0.136339134
WBGene00009444	0.315962953	5	9.22E-02	0.521427945
WBGene00000145	0.811508696	3	1.35E-02	0.350252907
WBGene00000206	0.378895226	5	6.13E-02	-0.059281045
WBGene00004760	0.189781047	46	4.83E-03	0.209177355
WBGene00003112	0.29174033	9	5.19E-02	0.039528407
WBGene00008655	-0.1728579	12	1.12E+01	0.392206492
WBGene00008654	-0.321181914	86	3.75E+13	-0.251870534
WBGene00008656	0.115327887	13	2.77E-01	0.150578569
WBGene00008659	-0.483650156	14	1.62E+03	-0.189548588
WBGene00008660	-0.174482204	13	1.44E+01	-0.884697416
WBGene00004118	-0.611661297	20	4.39E+05	-0.247042831
WBGene00011957	-0.433570438	4	7.53E+00	-0.279818362
WBGene00011953	0.056278972	15	6.54E-01	0.01176592
WBGene00011954	0.27132572	9	6.38E-02	0.119073615
WBGene00011955	0.738096687	18	3.10E-06	0.363908009
WBGene00011956	-0.022618497	12	1.65E+00	0.233679551
WBGene00219297	-0.14372068	4	1.49E+00	-0.496466681
WBGene00005170	-1	8	9.12E+04	-1
WBGene00005168	-0.892608773	11	4.48E+04	-0.966726351
WBGene00005169	-0.272297581	10	2.09E+01	-0.187235889
WBGene00044078	0.183936724	4	2.37E-01	0.331502878
WBGene00011407	0.84199919	6	1.54E-03	1
WBGene00011408	2	5	3.66E-05	2
WBGene00011410	0.01671094	3	5.68E-01	0.808757115
WBGene00011409	0.407511541	11	9.14E-03	0.286226771
WBGene00001036	0.468848619	5	3.42E-02	0.320198302
WBGene00011411	0.345234229	4	9.61E-02	0.166929023
WBGene00000543	-0.096580905	17	9.58E+00	0.299146892

WBGene00011412	0.657345003	3	2.78E-02	0.748842355
WBGene00007045	0.259912635	5	1.33E-01	0.749984933
WBGene00011414	0.085019795	4	4.13E-01	0.11801266
WBGene00119203	-0.430888945	17	3.02E+03	0.126819391
WBGene00011415	-0.412001651	14	5.73E+02	0.154342107
WBGene00001259	0.371501291	40	8.82E-06	0.024432559
WBGene00000068	0.43652378	29	2.35E-05	0.697127085
WBGene00008910	0.314892482	8	5.04E-02	0.956857375
WBGene00185014	0.318735985	6	7.36E-02	0.092805385
WBGene00008912	0.875802092	10	7.19E-05	0.326170229
WBGene00004311	0.051658076	8	5.64E-01	0.074355257
WBGene00006661	-0.060997681	6	1.22E+00	-0.23507869
WBGene00008911	0.123282848	5	3.22E-01	-0.277072896
WBGene00000664	0.75263601	5	5.41E-03	-0.318756375
WBGene00012146	0.587821588	3	3.86E-02	0.237276945
WBGene00007173	0.663524365	3	2.70E-02	0.438498132
WBGene00004469	1	9	8.96E-06	0.367317136
WBGene00007167	0.979994484	11	1.03E-05	0.808543482
WBGene00007168	-0.416487196	12	2.49E+02	-0.061564979
WBGene00007169	-0.344869128	18	1.01E+03	-0.432317709
WBGene00007170	-0.625103377	42	6.78E+11	-0.575782181
WBGene00007172	-0.006671963	1	5.37E-01	0
WBGene00044636	-0.823241162	7	7.64E+02	-0.338951813
WBGene00007171	-0.982173012	11	1.30E+05	-0.285802621
WBGene00044225	-0.266521298	4	2.96E+00	-0.087661132
WBGene00008003	0.053261587	13	6.45E-01	-0.580761963
WBGene00003210	-0.228993194	34	1.13E+04	-0.008999976
WBGene00008005	-0.077980178	13	3.86E+00	-0.221328001
WBGene00008006	0.131736678	25	1.37E-01	0.239512495
WBGene00008008	-0.212508081	4	2.18E+00	-0.039734471
WBGene00003912	-0.198278543	18	7.11E+01	-0.135955908
WBGene00008007	-1	7	4.23E+03	-1
WBGene00000193	0	2	5.69E-01	0.057203677
WBGene00017804	-0.506750861	7	5.56E+01	-0.782626644
WBGene00017803	-1	4	6.25E+02	-0.948950384
WBGene00017805	-0.370163365	3	3.51E+00	-0.234950909
WBGene00017806	-0.950560446	13	5.68E+05	-0.66359884
WBGene00017807	-0.68722354	18	4.96E+05	-0.468145499
WBGene00017802	-0.949577707	8	5.49E+03	-0.50854203
WBGene00017808	-0.388146387	5	8.92E+00	-0.444978366
WBGene00270319	-0.048804872	5	9.85E-01	-0.049353648
WBGene00044603	-0.112839782	4	1.25E+00	-0.090007193
WBGene00017809	-0.061411195	3	8.21E-01	-0.163512631
WBGene00017810	-0.059816277	2	7.15E-01	0.027097883
WBGene00001437	-0.170884684	7	3.45E+00	-0.241997794
WBGene00017811	0.027511274	12	8.70E-01	0.021101275
WBGene00017801	-0.208753223	5	2.78E+00	-0.077442063

WBGene00000418	0.259855877	19	1.53E-02	-0.054953275
WBGene00016445	-0.004690425	3	6.28E-01	0.44903229
WBGene00016444	0.207238966	9	1.22E-01	0.221675407
WBGene00016443	0.580693407	9	2.83E-03	0.319641394
WBGene00016446	1	6	1.85E-05	0.847774876
WBGene00016442	-0.220399311	4	2.28E+00	0.37198882
WBGene00000767	0.155819326	8	2.17E-01	0.187229009
WBGene00016452	-0.057684796	3	8.06E-01	0.110811124
WBGene00016447	-0.38795251	6	1.36E+01	-0.877009434
WBGene00016441	-0.500429038	10	2.54E+02	-0.877489491
WBGene00016440	-0.337937383	8	2.01E+01	-0.360828252
WBGene00016448	0.424457647	6	3.37E-02	0.255076856
WBGene00016449	0.030219721	1	4.82E-01	0.047538289
WBGene00000204	0.049879485	2	4.70E-01	0.054224004
WBGene00016439	0.09010426	8	3.96E-01	0.055674712
WBGene00016450	-1	7	7.51E+03	-0.890967401
WBGene00016451	-0.644424328	6	9.05E+01	-0.277100856
WBGene00017827	-0.111012587	9	2.99E+00	-0.004648256
WBGene00017828	0.031289589	5	5.86E-01	0.157507552
WBGene00003598	0.9380016	19	3.90E-08	0.613958771
WBGene00017826	-0.02339838	9	1.24E+00	0.022019607
WBGene00017832	0.18295012	2	2.83E-01	0.349216561
WBGene00005011	0.487175173	7	1.48E-02	0.303314609
WBGene00004400	0.07574689	9	4.57E-01	0.090554853
WBGene00017831	0.280279782	9	5.83E-02	0.200971756
WBGene00017829	0.315753142	9	4.08E-02	0.048412328
WBGene00005012	0.432460133	6	3.18E-02	0.036763588
WBGene00017825	0.449741507	8	1.46E-02	0.103947793
WBGene00004679	0.239751858	10	7.64E-02	0.919295071
WBGene00017830	-0.193280692	6	3.23E+00	0.194412319
WBGene00006735	-0.177806314	5	2.28E+00	-0.025919079
WBGene00016144	0.165996183	6	2.28E-01	0.096854284
WBGene00004782	0.241724259	42	8.96E-04	0.1739066
WBGene00016145	0.490091757	5	2.98E-02	0.481318949
WBGene00016143	0.471955315	8	1.19E-02	0.069437828
WBGene00016142	0.029596613	2	5.08E-01	0.093567276
WBGene00001499	0.159461182	8	2.10E-01	0.098408598
WBGene00016140	0.238814839	21	1.74E-02	0.255057939
WBGene00016139	0.12336645	10	2.74E-01	0.330954326
WBGene00016138	-0.17736384	9	5.83E+00	-0.080704433
WBGene00016137	-0.207082903	3	1.63E+00	-0.0244647
WBGene00016166	-0.022170283	5	8.29E-01	0.646554955
WBGene00016167	-0.133448421	6	2.08E+00	0.50593115
WBGene00043156	0.109647937	3	3.67E-01	0.287631013
WBGene00003558	0.415987697	42	9.14E-07	0.651475972
WBGene00016168	0.5521308	1	1.05E-01	0.523286277
WBGene00016169	0.047602931	10	6.28E-01	0.200492605

WBGene00016171	0.03548495	7	6.25E-01	0.710944775
WBGene00016165	0.050246956	12	6.51E-01	-0.02261593
WBGene00016170	0.362531116	27	3.03E-04	0.378888472
WBGene00020095	0.178903853	8	1.76E-01	0.60837901
WBGene00020098	0.478553646	3	6.46E-02	0.286619177
WBGene00020096	-0.196185983	6	3.30E+00	0.207000147
WBGene00043060	0.423867407	11	7.53E-03	0.609561938
WBGene00020099	0.348080522	5	7.49E-02	0.269065901
WBGene00020097	0.899868997	28	1.17E-10	0.786627359
WBGene00020094	0.603680682	6	8.98E-03	0.307880568
WBGene00007015	0.783500981	9	3.68E-04	0.626354647
WBGene00020093	0.471968703	5	3.35E-02	0.919261636
WBGene00044648	0.09460902	2	3.96E-01	0.152448899
WBGene00020092	0.9547561	22	2.77E-09	0.588147788
WBGene00220249	0.603103232	1	9.03E-02	0.631402822
WBGene00002218	1	20	3.43E-11	1
WBGene00016677	-0.536571552	9	2.17E+02	-0.172449828
WBGene00016684	0.493037869	9	6.85E-03	-0.005052108
WBGene00044409	0.012127181	1	5.08E-01	0.060668834
WBGene00016678	0.023883827	9	7.69E-01	0.520449403
WBGene00016676	0.107494156	5	3.57E-01	0.076043275
WBGene00050919	0.270261834	12	3.94E-02	0.044310373
WBGene00016679	-0.195139486	6	3.28E+00	1
WBGene00016680	-0.088892689	10	2.80E+00	0.249558155
WBGene00016681	-0.3245873	21	2.11E+03	-0.33950323
WBGene00016675	-0.013081656	9	1.12E+00	0.006861551
WBGene00016682	-0.173334732	10	7.06E+00	0.066498315
WBGene00016674	-0.278081659	3	2.28E+00	0.097289532
WBGene00016683	0.006914418	3	5.95E-01	-0.067806275
WBGene00016673	-0.163398135	6	2.59E+00	-0.323865062
WBGene00000107	2	17	2.68E-13	1
WBGene00006519	0.287703778	4	1.33E-01	0.166807536
WBGene00000279	0.556721573	5	1.93E-02	0.350081673
WBGene00284847	-0.019687614	2	6.13E-01	-0.010129201
WBGene00018802	0.301645874	23	3.21E-03	0.370084773
WBGene00001076	1	11	1.88E-06	0.201455873
WBGene00004728	-0.019749507	98	5.68E+03	0.218043093
WBGene00006543	-0.035880215	14	2.43E+00	0.012684655
WBGene00021900	0.02107721	39	4.60E+00	0.011328022
WBGene00021901	-0.025788941	5	8.49E-01	0.045024489
WBGene00021899	0.244233006	10	7.28E-02	0.119405899
WBGene00021902	0.268144122	7	9.10E-02	0.482943411
WBGene00044604	0.191751335	5	2.07E-01	0.257037832
WBGene00001744	0.431735964	20	4.29E-04	0.264844566
WBGene00020422	0.240701154	3	1.98E-01	0.227036313
WBGene00006736	-0.075398989	22	1.37E+01	-0.117081313
WBGene00020423	0.284867086	15	1.93E-02	-0.141055375

WBGene00019631	0.682134668	5	8.56E-03	0.072130796
WBGene00019630	0.551213804	4	3.03E-02	0.676979451
WBGene00019629	-0.097635819	29	7.04E+01	-0.362713921
WBGene00019628	0.284869671	17	1.35E-02	-0.220445387
WBGene00189952	0.073233333	6	4.52E-01	0.590623525
WBGene00019627	-0.211819176	17	6.96E+01	0.009900138
WBGene00019633	0.444801975	3	7.57E-02	0.01054079
WBGene00001262	0.499673815	24	2.54E-05	0.037557602
WBGene00022531	0.067595559	18	5.78E-01	0.396396429
WBGene00022534	0.441847197	6	2.97E-02	0.45158178
WBGene00022532	0.842822095	8	3.98E-04	0.857163306
WBGene00022533	-0.11266555	9	3.04E+00	0.631098272
WBGene00022530	0.174497488	10	1.56E-01	0.01852271
WBGene00003588	0.323277595	11	2.48E-02	0.019967037
WBGene00016411	0.517392711	5	2.49E-02	0.304359828
WBGene00303005	0.476088755	2	9.25E-02	0.250487487
WBGene00000229	0.568115529	12	8.86E-04	-0.036886763
WBGene00016408	0.490605635	16	5.63E-04	0.293846254
WBGene00016412	0.033013447	3	5.26E-01	0.360159942
WBGene00006946	0.048597813	11	6.42E-01	-0.129495709
WBGene00000561	-0.092255104	5	1.31E+00	-0.132700431
WBGene00016409	0.185333565	20	5.76E-02	0.219832086
WBGene00001660	0.272731526	16	1.97E-02	0.560557222
WBGene00001661	-0.012580687	6	8.51E-01	0.394166153
WBGene00001662	-0.060343834	6	1.21E+00	0.086233492
WBGene00016410	0.228873575	3	2.09E-01	-0.106143691
WBGene00001823	-0.203657825	2	1.24E+00	-0.077760084
WBGene00001740	-0.075907448	11	2.81E+00	0.435280659
WBGene00022597	0.27435525	3	1.69E-01	0.246489566
WBGene00022598	0.468381016	21	1.47E-04	0.498735598
WBGene00022596	0.616016222	3	3.38E-02	0.510253779
WBGene00022599	0.441970266	5	4.07E-02	0.410140397
WBGene00006590	0.682279086	10	5.99E-04	0.454773912
WBGene00000536	0.255628636	7	1.01E-01	0.476796568
WBGene00022600	0.034885463	1	4.75E-01	-0.001422436
WBGene00020530	0.760935922	23	1.01E-07	0.81165429
WBGene00020531	0.403397643	8	2.24E-02	0.574325922
WBGene00018675	0.520344473	16	3.46E-04	0.590207959
WBGene00003391	0.93301112	21	9.46E-09	0.610218143
WBGene00004095	0.444797057	32	7.15E-06	0.367833056
WBGene00018674	0.078967504	4	4.27E-01	0.206101626
WBGene00018672	-0.263120997	51	6.90E+06	-0.353221295
WBGene00022664	0.108258315	17	2.82E-01	-0.519328895
WBGene00022663	0.344011049	4	9.67E-02	-0.293388226
WBGene00021311	0.008896907	10	9.59E-01	-0.28246975
WBGene00021317	0.001339605	1	5.24E-01	0
WBGene00021310	-0.088519483	3	9.32E-01	-0.035980362

WBGene00000973	0.164921331	10	1.74E-01	0.362001854
WBGene00021312	-0.040464519	4	8.33E-01	0.045435748
WBGene00021313	0.009740242	14	1.25E+00	0.02543703
WBGene00021314	-0.316590467	3	2.73E+00	0.248344147
WBGene00021315	-0.318778714	16	3.05E+02	-0.286479128
WBGene00021316	-0.160112181	78	1.98E+07	-0.051096584
WBGene00020967	0.089528742	8	3.98E-01	0.040276115
WBGene00020966	-0.486687121	24	2.84E+05	-0.345797185
WBGene00001731	-0.411319216	4	6.65E+00	-0.494072842
WBGene00001042	0.05780898	9	5.47E-01	0.104933835
WBGene00020970	-0.197424533	20	1.16E+02	0.194398253
WBGene00020779	-0.043063964	8	1.34E+00	-0.127781546
WBGene00018612	0.467367841	21	1.50E-04	0.323269088
WBGene00018613	0.437205184	10	8.79E-03	0.426137814
WBGene00044410	0.115972626	6	3.29E-01	0.92652448
WBGene00003901	0.708200098	7	2.38E-03	0.515673645
WBGene00018611	-0.017429784	11	1.40E+00	0.186566138
WBGene00018610	0.208429408	11	9.67E-02	0.170285454
WBGene00018609	-0.247346901	11	2.14E+01	-0.191928356
WBGene00003055	0.080988723	11	4.38E-01	-0.285416599
WBGene00271774	-0.042197951	4	8.41E-01	-0.073352855
WBGene00019835	-0.01853683	1	5.56E-01	-0.02356592
WBGene00019834	-0.293930873	5	4.84E+00	-0.906094048
WBGene00019836	0.056969183	10	5.66E-01	0.059048347
WBGene00019833	-0.100313266	3	9.86E-01	-0.125717807
WBGene00019832	0.321628155	47	1.34E-05	0.362553399
WBGene00019837	0.416995889	12	6.08E-03	0.451871974
WBGene00019838	-0.000633791	3	6.16E-01	0.02032884
WBGene00019831	0.403731633	18	1.32E-03	0.054060997
WBGene00017032	-0.795122661	7	6.06E+02	-0.735408079
WBGene00004114	-1	14	5.52E+08	-0.981087996
WBGene00017033	0.011443602	10	9.33E-01	-0.08078213
WBGene00017029	0	1	5.26E-01	0
WBGene00017030	-0.435978204	2	3.00E+00	-0.521299777
WBGene00017028	-0.085555703	23	2.00E+01	-0.126100721
WBGene00017031	0.107254588	21	2.67E-01	0.231728874
WBGene00017027	-0.29590048	3	2.48E+00	-0.441252979
WBGene00017302	-0.253076217	25	1.60E+03	-0.434675541
WBGene00017303	-0.555646254	6	4.70E+01	-0.786964599
WBGene00017304	-0.096444682	4	1.14E+00	-0.726735518
WBGene00017301	0.376575097	11	1.32E-02	-0.477474591
WBGene00017300	0.359197415	33	7.69E-05	-0.005633536
WBGene00003371	0.861635913	15	2.64E-06	0.180990389
WBGene00017305	-0.043782223	5	9.54E-01	-0.613219664
WBGene00017299	0.207594335	9	1.21E-01	0.073974297
WBGene00018966	-0.049893121	6	1.12E+00	0.023080488
WBGene00018968	-0.987942255	3	6.44E+01	0.018225355

WBGene00006731	-0.404653217	5	9.93E+00	-0.158039024
WBGene00018965	-0.329940833	7	1.29E+01	-0.393726914
WBGene00018964	0.0459258	8	5.94E-01	0.167599175
WBGene00018967	0.60501725	27	5.37E-07	-0.200084954
WBGene00018963	-0.084604837	10	2.67E+00	-0.11874518
WBGene00000420	-0.047087196	17	4.09E+00	-0.247385329
WBGene00015470	0.739441449	13	5.58E-05	0.560435569
WBGene00015468	0.411892729	10	1.16E-02	0.558176341
WBGene00001514	-0.510381148	13	1.40E+03	-0.30690003
WBGene00015469	-0.542057745	10	4.02E+02	-0.091776847
WBGene00000239	-0.473614163	11	3.13E+02	-0.695781493
WBGene00015467	-0.503852163	16	6.25E+03	-0.562654461
WBGene00000900	-0.125045244	28	1.25E+02	-0.395804615
WBGene00000518	0.392713117	36	1.18E-05	0.371621551
WBGene00018828	0.435729406	11	6.54E-03	-0.021453432
WBGene00018829	-0.778390155	4	5.20E+01	-0.070086734
WBGene00003918	-0.122934989	51	8.78E+03	-0.097668138
WBGene00018831	0.04948729	4	5.03E-01	0.24685395
WBGene00018830	0.153984121	4	2.80E-01	0.15702215
WBGene00004481	0.543488448	2	7.15E-02	0.494733389
WBGene00018827	0.717579979	8	1.26E-03	0.837322895
WBGene00004321	0.319674811	6	7.31E-02	0.624877083
WBGene00015146	-0.312323033	10	3.24E+01	-0.279853822
WBGene00015145	0.269682348	3	1.73E-01	0.193633363
WBGene00015150	0.447821551	5	3.92E-02	0.657920682
WBGene00015147	0.194554948	20	4.79E-02	-0.090727768
WBGene00002982	0.006617297	1	5.16E-01	0.0068875
WBGene00004348	-0.124337016	13	7.27E+00	-0.071935371
WBGene00006359	0.610496164	25	1.19E-06	0.137308955
WBGene00004435	-0.434358093	4	7.57E+00	0.055547159
WBGene00015148	0.491251262	14	1.15E-03	-0.075567307
WBGene00015149	0.191333308	4	2.27E-01	-0.64271279
WBGene00015143	0.320184878	22	2.60E-03	-0.087076427
WBGene00000182	0.221801724	10	9.31E-02	0.359675208
WBGene00006943	0.129630588	20	1.74E-01	-0.086366751
WBGene00015083	-0.890145577	13	2.49E+05	-0.96406934
WBGene00015084	-0.670338875	3	1.44E+01	-0.285137417
WBGene00015082	-0.289301737	4	3.36E+00	-0.026245787
WBGene00271715	-0.485028628	9	1.29E+02	0.004262763
WBGene00015085	-0.015292728	6	8.68E-01	-0.024744955
WBGene00015081	-0.211480381	7	4.83E+00	-0.572807134
WBGene00271577	-0.017063478	5	8.02E-01	-0.212841929
WBGene00206513	-0.497026155	4	1.07E+01	-0.327804638
WBGene00015080	-0.227805376	9	9.69E+00	-0.283714816
WBGene00015079	-0.384025184	21	7.24E+03	-0.208992393
WBGene00002048	0.800315333	35	2.00E-11	0.873534131
WBGene00015086	0.51290567	3	5.49E-02	0.607733793

WBGene00021343	0.882660296	20	5.48E-08	1
WBGene00021344	0.366680601	61	5.57E-08	0.480300339
WBGene00021345	0.897147656	4	4.37E-03	0.738252235
WBGene00020964	-0.076642514	37	1.26E+02	-0.059256822
WBGene00000435	0.143146307	6	2.69E-01	-0.157754613
WBGene00001869	-0.147302491	12	8.07E+00	0.014565717
WBGene00020019	-0.090767039	8	2.08E+00	-0.544500645
WBGene00020018	0.108652059	9	3.28E-01	-0.176596941
WBGene00020021	-0.471648642	2	3.44E+00	-0.858154918
WBGene00004858	-0.294182533	15	1.45E+02	-0.189678105
WBGene00044411	0.799027067	11	8.83E-05	0.670778029
WBGene00007016	0.569389292	26	2.10E-06	0.025020685
WBGene00303073	0.219665672	4	1.94E-01	-0.356656763
WBGene00020020	-0.005340423	1	5.35E-01	-0.148462793
WBGene00021029	0.62896305	1	8.37E-02	-0.068589292
WBGene00017162	0.166003715	21	7.88E-02	0.076883424
WBGene00000381	0.993735816	14	7.75E-07	0.703529667
WBGene00000115	0.117183718	13	2.70E-01	-0.272459216
WBGene00001057	0.210704344	17	4.85E-02	-0.324605898
WBGene00017163	0.458023294	11	5.02E-03	0.390029769
WBGene00017161	-0.008322082	12	1.37E+00	0.305847427
WBGene00017164	0.916448806	9	9.66E-05	0.349092594
WBGene00017169	0.397810942	5	5.42E-02	1
WBGene00017165	0.07697077	8	4.47E-01	0.275603457
WBGene00017160	-0.087651521	11	3.23E+00	0.024407048
WBGene00017166	0.58911838	8	4.08E-03	0.680765409
WBGene00003252	0.472967343	3	6.63E-02	0.422957178
WBGene00017159	0.526155445	5	2.36E-02	0.216393334
WBGene00017158	0.342260389	10	2.49E-02	0.380897737
WBGene00017168	0.633394023	5	1.17E-02	0.063989938
WBGene00016196	-0.331036159	5	6.16E+00	-0.338564449
WBGene00016198	-0.347562062	3	3.16E+00	-0.260357832
WBGene00016199	-0.217430714	8	6.65E+00	-0.229181236
WBGene00016197	0.125682627	11	2.58E-01	0.365218434
WBGene00016200	-0.447194633	16	2.48E+03	-0.436461827
WBGene00016195	0.321878445	7	5.83E-02	-0.247040811
WBGene00016194	0.221364206	36	4.12E-03	-0.031618766
WBGene00016201	-0.193049649	6	3.23E+00	-0.168203951
WBGene00016193	0.094943565	5	3.87E-01	-0.046564492
WBGene00001018	0.015213159	3	5.72E-01	-0.119448105
WBGene00016192	-0.140359219	6	2.19E+00	0.096226122
WBGene00006987	-0.007475004	21	2.90E+00	0.192061099
WBGene00271775	0.187012599	5	2.13E-01	0.000573351
WBGene00017146	-0.417409287	7	2.66E+01	-0.686949377
WBGene00006727	0.681568548	33	3.00E-09	0.240929317
WBGene00017776	0.484434563	13	1.81E-03	0.202895379
WBGene00017777	0.027889086	8	7.01E-01	0.457837914

WBGene00017775	0.265110635	16	2.23E-02	0.113025471
WBGene00017778	0.14244472	13	1.91E-01	0.278428192
WBGene00017774	-0.035230869	21	5.16E+00	-0.436366534
WBGene00017773	0.16575588	23	6.88E-02	0.155289063
WBGene00003375	-0.168610193	7	3.38E+00	0.205356606
WBGene00001489	-0.096717789	11	3.59E+00	-0.181932317
WBGene00020211	-0.24331988	1	1.07E+00	-0.057914758
WBGene00020210	0.10013858	2	3.88E-01	0.493843826
WBGene00020209	0.596163978	35	1.78E-08	0.506938351
WBGene00022694	0.08151627	8	4.29E-01	0.303720321
WBGene00001166	0.6318767	16	5.62E-05	-0.065860461
WBGene00003796	0.955093013	27	5.71E-11	0.354240435
WBGene00000874	0.118888525	17	2.35E-01	0.197923366
WBGene00006544	-0.332777275	8	1.92E+01	-0.133736052
WBGene00022695	-0.451708729	11	2.41E+02	0.193478737
WBGene00022696	-0.343956399	24	9.98E+03	-0.271130208
WBGene00018254	-0.128863491	12	6.38E+00	-0.210728266
WBGene00006547	-0.547552669	11	7.51E+02	-0.517050917
WBGene00018255	-0.148360314	13	1.01E+01	-0.04365155
WBGene00018253	-0.092196855	3	9.49E-01	-0.007644085
WBGene00015478	0.031555178	13	8.68E-01	-0.204822308
WBGene00015477	0.491223036	19	1.89E-04	0.334214453
WBGene00015479	-0.570754143	15	1.04E+04	-0.31891027
WBGene00015480	-0.165331111	26	2.37E+02	-0.108739706
WBGene00020549	0.307561277	8	5.39E-02	0.395721353
WBGene00002201	0.468779124	22	1.04E-04	0.280605524
WBGene00021534	0.794122212	39	1.96E-12	0.743217145
WBGene00021535	-0.307855957	26	8.66E+03	-0.489382984
WBGene00021533	-1	8	3.86E+04	-1
WBGene00021532	-0.161885964	2	1.05E+00	-0.33134676
WBGene00021531	-0.013001337	19	2.72E+00	0.079321387
WBGene00018340	0.672155742	16	2.91E-05	-0.184498091
WBGene00003593	0.049736385	18	7.99E-01	0.184461267
WBGene00023489	0.518074822	23	2.43E-05	0.468641107
WBGene00001160	0.706032413	14	5.06E-05	0.415842315
WBGene00018341	0.538986025	7	9.67E-03	-0.131534935
WBGene00018339	0.534988584	12	1.35E-03	0.056693846
WBGene00018342	0.416614188	3	8.64E-02	-0.01699091
WBGene00018343	-0.036229692	1	5.85E-01	-0.027766356
WBGene00003546	-0.565521006	5	2.82E+01	-0.233781482
WBGene00016012	0.273683367	3	1.69E-01	0.269708413
WBGene00016013	-0.40978998	14	5.55E+02	-0.389926784
WBGene00016014	-0.019450456	12	1.58E+00	0.497857177
WBGene00004459	0.522472213	25	1.01E-05	0.024264034
WBGene00016015	0.520076037	14	7.54E-04	1
WBGene00004472	2	4	3.55E-05	1
WBGene00016011	2	3	4.45E-04	0.536565562

WBGene00016010	-0.189116218	14	2.25E+01	0.015546766
WBGene00016016	-0.000454424	2	5.70E-01	-0.010230752
WBGene00016017	-0.985655564	1	9.39E+00	-2
WBGene00001989	-0.026127332	12	1.72E+00	0.006513589
WBGene00020443	0.351371176	23	1.04E-03	0.675690884
WBGene00020439	-0.432618922	28	5.10E+05	-0.1625886
WBGene00020438	-0.29999847	4	3.56E+00	-0.614986209
WBGene00020440	-0.925759489	15	2.47E+06	-0.867530549
WBGene00020441	0.105021648	8	3.46E-01	0.011938839
WBGene00020442	0.361111089	11	1.58E-02	0.204629313
WBGene00020437	0.278094757	6	9.94E-02	0.647486375
WBGene00020436	-0.371401266	48	3.49E+08	-0.193368514
WBGene00005166	-0.850107073	4	7.76E+01	-0.532357339
WBGene00005167	-0.200201905	6	3.40E+00	-0.106337677
WBGene00005159	-0.007692411	3	6.37E-01	0
WBGene00005160	-0.12440629	4	1.33E+00	0.038392807
WBGene00005162	-0.507432982	6	3.29E+01	-0.193587102
WBGene00005163	-0.027095198	5	8.56E-01	-0.127613532
WBGene00005164	-0.470820846	5	1.53E+01	-0.504616623
WBGene00005165	-0.661604811	6	1.03E+02	-0.30871853
WBGene00005161	-1	6	1.02E+04	-0.273169327
WBGene00015979	0.013138598	5	6.59E-01	-0.602897345
WBGene00015977	-0.148341511	13	1.01E+01	-0.071658271
WBGene00015978	0.328470432	11	2.33E-02	0.051687264
WBGene00001972	0.341166145	5	7.83E-02	0.33030028
WBGene00018561	0.0311326	9	7.15E-01	0.278050083
WBGene00018562	0.396282156	3	9.51E-02	0.129927601
WBGene00018563	-0.48303195	13	9.67E+02	-0.601542738
WBGene00018560	0.600933306	2	5.74E-02	0.751405407
WBGene00018564	0.456865783	20	2.60E-04	0.411084827
WBGene00001518	0.484631141	23	5.17E-05	0.585095431
WBGene00016980	-0.147694006	21	5.34E+01	-0.384820913
WBGene00016979	0.066469621	13	5.39E-01	0.138899615
WBGene00002891	0.192746197	7	1.70E-01	0.356705952
WBGene00016981	0.253073484	11	5.70E-02	0.053884043
WBGene00016982	0.301777785	6	8.35E-02	0.44014288
WBGene00303050	0.817203869	2	2.52E-02	0.954291117
WBGene00016978	0.077104462	3	4.28E-01	0.616608782
WBGene00016977	0.234871617	53	2.74E-04	0.26961728
WBGene00016983	0.207406576	12	8.79E-02	-0.171008431
WBGene00015813	0.291751734	28	1.61E-03	0.018471011
WBGene00004482	2	6	9.43E-07	1
WBGene00007048	0.271178847	10	5.42E-02	0.260501094
WBGene00015811	0.866130354	6	1.29E-03	0.456961013
WBGene00015810	0.922757884	6	8.50E-04	0.152386468
WBGene00015809	0.887756691	8	2.64E-04	0.517268935
WBGene00002850	0.446374614	32	6.81E-06	0.419374383

WBGene00015807	0.084913997	6	4.14E-01	-0.2126017
WBGene00015806	-0.573102003	24	2.15E+06	-0.818357326
WBGene00015814	0.28057725	12	3.46E-02	-0.14703974
WBGene00002881	0.653145299	15	6.58E-05	0.737957095
WBGene00015483	0.165660829	8	1.98E-01	0.520448374
WBGene00003523	-0.459344386	8	6.12E+01	-0.561953077
WBGene00015484	0.08749304	17	4.04E-01	0.162776305
WBGene00015485	-0.016758283	22	3.85E+00	-0.019092125
WBGene00015486	0.159228263	8	2.10E-01	0.109702527
WBGene00015487	-0.167881172	5	2.13E+00	0.388579599
WBGene00006515	0.316575195	7	6.10E-02	0.521559005
WBGene00006516	0.171046342	18	8.89E-02	-0.09029507
WBGene00015481	0.023922273	32	2.80E+00	-0.172284181
WBGene00003214	-0.089664641	24	2.56E+01	0.000290293
WBGene00015488	0.578239096	4	2.60E-02	0.062154243
WBGene00002855	0.537253886	15	3.93E-04	0.416233948
WBGene00020822	0.13893232	11	2.20E-01	0.046654054
WBGene00004781	0.029347201	7	6.57E-01	0.188724694
WBGene00020821	0.140970371	23	1.20E-01	0.547511049
WBGene00020820	0.406603062	9	1.63E-02	0.104859279
WBGene00020823	0.180396528	7	1.88E-01	-0.513294629
WBGene00001005	0.267714185	7	9.13E-02	-0.65435803
WBGene00006463	0.122854776	9	2.84E-01	0.239554491
WBGene00020819	-0.213242484	15	4.18E+01	-0.242143619
WBGene00007060	-0.531753366	9	2.06E+02	-0.37082552
WBGene00017755	-0.237949559	10	1.43E+01	-0.326970936
WBGene00017754	-0.06795819	22	1.17E+01	-0.05716163
WBGene00004503	0.087386527	10	4.06E-01	0.125207183
WBGene00005076	-0.378141447	6	1.27E+01	0.118100149
WBGene00044455	-0.567201674	15	9.80E+03	-0.794747804
WBGene00017752	-0.24640507	4	2.64E+00	-0.190121179
WBGene00017751	0.001765727	26	3.50E+00	-0.156918602
WBGene00017756	-0.259074586	9	1.33E+01	-0.779740329
WBGene00000044	-0.149938423	9	4.43E+00	0.115477823
WBGene00044295	0.177615682	4	2.46E-01	0.364357944
WBGene00003859	0.921491631	5	1.81E-03	0.565123107
WBGene00004102	-0.259499844	14	6.25E+01	0.055202399
WBGene00015637	-0.646978292	6	9.23E+01	-0.472505373
WBGene00015638	0.265683333	11	4.90E-02	0.237581898
WBGene00015639	0.034797688	12	7.93E-01	-0.044710544
WBGene00015641	0.017129735	19	1.53E+00	-0.003148404
WBGene00015642	0.099100314	17	3.31E-01	0.322354487
WBGene00017848	-2	6	9.49E+04	-0.762992073
WBGene00044454	-0.006671963	1	5.37E-01	-0.008712329
WBGene00000060	-0.311306713	12	6.52E+01	0.017090077
WBGene00017648	-1	7	4.51E+03	-0.371741492
WBGene00017646	-0.321788808	6	8.35E+00	-0.156364071

WBGene00002889	0.583610065	36	1.74E-08	0.392535144
WBGene00003162	-0.305692787	7	1.05E+01	0.194519182
WBGene00017647	0.089298944	12	3.96E-01	-0.385489289
WBGene00005263	0.006244726	4	6.41E-01	0.020213927
WBGene00021503	-0.277394429	11	3.06E+01	0.044607931
WBGene00021502	-0.146384003	26	1.47E+02	0.50249834
WBGene00015733	0	2	5.69E-01	0.017491029
WBGene00015734	0.580283281	11	1.18E-03	0.977928125
WBGene00015735	0.576149938	43	1.05E-09	0.626679593
WBGene00019714	0.275148792	3	1.68E-01	0.160732127
WBGene00004316	0.251218183	85	1.12E-06	0.260727274
WBGene00002169	0.014970449	22	1.94E+00	0.333342238
WBGene00018136	-0.008725315	6	8.27E-01	0.24812225
WBGene00018135	-0.508128267	9	1.63E+02	-0.907347381
WBGene00018134	-0.357907473	19	1.90E+03	-0.461517519
WBGene00018133	0.293295195	6	8.89E-02	0.201865191
WBGene00018137	0.600405893	7	5.81E-03	0.624144094
WBGene00018132	0.156602569	4	2.76E-01	0.130922097
WBGene00018131	0.417472331	10	1.09E-02	0.275899195
WBGene00022420	0.356072779	12	1.32E-02	-0.147747837
WBGene00044452	0.822412544	7	9.25E-04	0.648907699
WBGene00003851	0.252876463	12	4.92E-02	0.085605237
WBGene00022421	0.147214453	2	3.24E-01	0.994558863
WBGene00044453	-0.39800927	5	9.51E+00	-0.559492351
WBGene00019501	-0.027973752	3	7.01E-01	0.291402636
WBGene00000998	0.927027961	196	1.06E-65	0.765881285
WBGene00019907	0.419692915	11	7.91E-03	0.069063413
WBGene00019908	0.121544608	8	2.97E-01	0.140656906
WBGene00017904	0.29097681	40	1.84E-04	0.38631793
WBGene00043297	-0.426925883	2	2.90E+00	0.051012234
WBGene00017905	-0.086494768	6	1.47E+00	0.261631972
WBGene00006498	0.413289413	73	1.21E-10	0.381194976
WBGene00020066	-0.022147056	3	6.82E-01	0.072348988
WBGene00005712	0.044297136	5	5.38E-01	0.173886443
WBGene00006971	0.407376825	13	5.16E-03	0.305357294
WBGene00020067	0.148265111	5	2.74E-01	0.442029272
WBGene00004857	0.18961787	7	1.74E-01	0.027844368
WBGene00020068	0.356492324	18	3.10E-03	0.330181408
WBGene00020064	0.12271366	2	3.56E-01	0.565982945
WBGene00044312	0.458627407	5	3.65E-02	0.223730785
WBGene00019381	0.112412096	7	3.30E-01	-0.185769595
WBGene00044311	5.81E-05	6	7.75E-01	0.266319483
WBGene00003181	0.117983798	2	3.63E-01	0.503410223
WBGene00000265	1	13	1.65E-07	1
WBGene00019380	0.936165463	15	8.37E-07	1
WBGene00019382	1	4	6.15E-04	1
WBGene00020315	0.814991413	10	1.40E-04	0.259548823

WBGene00020316	0.146636341	2	3.25E-01	0.331739816
WBGene00020314	0.144310199	5	2.81E-01	0.362719839
WBGene00020313	-0.630282419	5	4.30E+01	0.112841177
WBGene00020317	0.029496674	7	6.56E-01	0.059367285
WBGene00018998	0.163834021	21	8.25E-02	0.412088829
WBGene00002083	1	15	5.30E-08	0.704584913
WBGene00000276	1	17	1.95E-09	0.785895099
WBGene00018999	1	11	2.02E-07	0.410126477
WBGene00000762	0.377099002	11	1.31E-02	0.622037557
WBGene00018997	-0.453280275	8	5.79E+01	-0.536903324
WBGene00004133	0.096318752	9	3.71E-01	-0.200433097
WBGene00002845	0.615022745	48	2.07E-11	0.652120712
WBGene00004462	0.120020541	18	2.24E-01	-0.056395006
WBGene00018996	0.120308739	9	2.92E-01	-0.64894682
WBGene00017951	0.217054173	21	2.73E-02	-0.070217308
WBGene00219317	1	4	7.97E-04	0.530833108
WBGene00001168	2	10	1.74E-08	0.604649106
WBGene00004340	0.336798287	1	1.97E-01	0.048000365
WBGene00017950	-0.00101133	18	2.00E+00	0.312881144
WBGene00000443	0.962423256	10	2.78E-05	1
WBGene00017952	0.879401747	3	9.78E-03	0.872686981
WBGene00004182	0.504898429	59	4.78E-11	0.360371222
WBGene00015544	-0.345829618	13	1.49E+02	0.04929912
WBGene00017389	-0.007204446	22	3.13E+00	0.092362141
WBGene00000597	0.22224534	3	2.16E-01	0.079233325
WBGene00004341	0.171894522	10	1.61E-01	0.254754255
WBGene00000872	0.310420255	30	6.51E-04	0.53414648
WBGene00023414	-0.034758245	30	1.36E+01	0.057703295
WBGene00019810	-0.563759541	9	2.85E+02	-0.939799194
WBGene00019811	-0.356038689	7	1.60E+01	-0.176212004
WBGene00019812	-0.430073441	13	4.70E+02	-0.286656596
WBGene00019809	-0.527220779	2	4.25E+00	-0.242818176
WBGene00019813	0.296867037	3	1.52E-01	0.214492256
WBGene00006713	0.086448134	5	4.09E-01	0.359486125
WBGene00045190	0.0074693	2	5.53E-01	0
WBGene00022733	0.027197373	1	4.86E-01	0
WBGene00003022	0.397990474	9	1.78E-02	0.498485302
WBGene00022734	0.230520144	5	1.61E-01	0.211499573
WBGene00220259	-0.310563687	11	4.53E+01	-0.009128463
WBGene00022735	-0.120293346	6	1.89E+00	-0.023770972
WBGene00022736	-0.780022672	7	5.34E+02	-0.377542332
WBGene00022737	0.001742572	7	8.26E-01	0.323284931
WBGene00022738	0.649753171	17	2.54E-05	0.367887076
WBGene00044353	-0.28152185	5	4.47E+00	-0.028168665
WBGene00022732	-0.948863343	11	8.73E+04	-0.520840054
WBGene00003608	-0.318502836	8	1.68E+01	-0.137532165
WBGene00044354	-0.077354119	7	1.59E+00	-0.075732668

WBGene00015102	-0.228492104	17	9.27E+01	-0.320910268
WBGene00003845	-0.349341368	9	3.29E+01	-0.09831176
WBGene00015103	-0.126425429	4	1.35E+00	0.573595651
WBGene00003609	0.309562972	12	2.39E-02	0.410077491
WBGene00015104	-0.492911275	6	2.96E+01	0.228202474
WBGene00015101	-0.353091472	5	7.11E+00	0.58807854
WBGene00015100	-0.298266527	11	3.92E+01	-0.181457838
WBGene00015107	-0.127329179	12	6.25E+00	0.122540465
WBGene00015105	0.166832332	4	2.61E-01	0.146182137
WBGene00015099	0.267612244	14	2.95E-02	0.096132086
WBGene00044674	0.182194735	9	1.56E-01	0.195220662
WBGene00015106	-0.009342577	6	8.31E-01	0.221574316
WBGene00001613	1	15	2.05E-07	1
WBGene00003858	0.221035426	26	1.38E-02	0.319769995
WBGene00019401	0.416389898	12	6.13E-03	0.218449314
WBGene00004390	-0.03622367	12	1.96E+00	-0.080172821
WBGene00019402	-0.547454369	11	7.50E+02	-0.794241698
WBGene00019400	0.149485864	11	1.94E-01	-0.432817809
WBGene00018152	1	11	6.73E-06	0.89175447
WBGene00005073	0.018285455	4	6.00E-01	-0.007823158
WBGene00005072	0.163140355	3	2.85E-01	-0.487724616
WBGene00004483	0.83262328	3	1.22E-02	-0.294533976
WBGene00004450	2	3	2.41E-04	0.757248003
WBGene00018151	1	6	1.31E-04	0.924779813
WBGene00018150	0.445123847	3	7.56E-02	0.349476694
WBGene00018149	0.118528448	15	2.50E-01	0.252836316
WBGene00018155	0.203777389	3	2.35E-01	0.175852555
WBGene00018153	0.830072533	7	8.68E-04	-0.363371879
WBGene00194742	1	3	6.48E-04	0.848483346
WBGene00004490	1	2	4.79E-03	2
WBGene00003176	-0.061785912	10	2.08E+00	0.268941497
WBGene00044005	-0.402709522	5	9.81E+00	-0.003838184
WBGene00018154	0.315930725	142	6.25E-14	0.242170384
WBGene00020112	-0.359409531	3	3.34E+00	0.016971113
WBGene00006592	0.010028042	14	1.25E+00	-0.169876721
WBGene00004417	2	6	4.83E-07	1
WBGene00020107	0.451421784	26	4.12E-05	0.134059442
WBGene00020106	0.487350284	11	3.55E-03	0.667745437
WBGene00020109	0.812578055	6	1.92E-03	0.48210901
WBGene00020110	0.04736213	11	6.52E-01	0.464734055
WBGene00020111	0.50014173	15	6.97E-04	0.131932691
WBGene00020113	0.595386934	9	2.44E-03	0.527095807
WBGene00000080	0.405989222	11	9.30E-03	0.184067121
WBGene00020636	0.141675007	4	3.00E-01	0.064824193
WBGene00004189	0.36546019	7	4.07E-02	0.589026257
WBGene00020635	0.437429624	7	2.24E-02	-0.350468734
WBGene00003890	-0.610940118	8	2.46E+02	-0.186936424

WBGene00020646	-0.701235832	13	1.90E+04	-0.496692788
WBGene00015158	0.390491599	26	1.92E-04	0.187655446
WBGene00015159	-0.263318067	15	9.04E+01	0.031402079
WBGene00015160	-0.324096854	5	5.89E+00	0.163710667
WBGene00015165	-0.3035521	10	2.94E+01	0.10535255
WBGene00015157	0.011679382	8	8.14E-01	0.389641436
WBGene00015161	0.140326713	7	2.62E-01	0.397932654
WBGene00015164	0.42171615	9	1.40E-02	0.497678162
WBGene00015162	-0.064451326	6	1.25E+00	0.550215662
WBGene00015156	0.352744777	68	2.32E-08	0.374808554
WBGene00015163	0.348926775	5	7.45E-02	0.497131786
WBGene00303033	0.433678484	1	1.48E-01	0.490525491
WBGene00018949	0.58026249	6	1.07E-02	0.901744373
WBGene00018950	0.052909571	8	5.57E-01	0.709841462
WBGene00018948	-0.957300854	13	6.22E+05	-0.670645876
WBGene00018951	-0.613171574	9	4.69E+02	-0.169139592
WBGene00018952	0.027606198	6	6.32E-01	-0.093222866
WBGene00018954	-0.23967439	29	3.71E+03	-0.165615169
WBGene00018953	0.290019105	22	5.00E-03	0.359593384
WBGene00001748	1	15	7.12E-08	0.605177987
WBGene00002182	0.092805818	13	3.76E-01	0.59925676
WBGene00017271	0.204786047	6	1.71E-01	0.131405436
WBGene00017272	0.595122573	6	9.56E-03	0.85027786
WBGene00017273	0.342146297	5	7.78E-02	0.245437999
WBGene00017274	0.198554581	18	5.41E-02	0.26845364
WBGene00017275	0.197223395	9	1.34E-01	0.90653948
WBGene00017269	0.013624651	8	7.99E-01	-0.090928024
WBGene00017268	0.284026068	8	6.69E-02	0.190570498
WBGene00017270	-0.190286667	8	5.19E+00	0.461589822
WBGene00017267	-0.419442454	8	4.24E+01	-0.51527363
WBGene00269381	-0.417094217	3	4.38E+00	-0.293816683
WBGene00020603	-0.152292991	2	1.02E+00	-0.505272034
WBGene00020602	-0.252762251	5	3.70E+00	-0.070459959
WBGene00003378	0.102071999	17	3.14E-01	0.152582293
WBGene00020604	0.112220615	5	3.46E-01	0.54047316
WBGene00001974	0.346210711	11	1.89E-02	0.533115985
WBGene00020601	0.197882126	4	2.19E-01	0.437533371
WBGene00006542	0.393308408	6	4.25E-02	0.78792145
WBGene00020600	1	21	2.46E-11	0.849760555
WBGene00020605	0.470728111	14	1.54E-03	0.302656503
WBGene00000118	0.100637236	8	3.60E-01	-0.265294275
WBGene00022102	0.072225518	7	4.61E-01	0.01163389
WBGene00044451	-0.116349134	1	7.40E-01	0.37546535
WBGene00044450	-0.011701019	1	5.45E-01	0.017125928
WBGene00003376	-0.008205956	4	6.95E-01	0.118740405
WBGene00044449	0	1	5.26E-01	0.273890445
WBGene00019196	0.520629427	3	5.30E-02	0.162579112

WBGene00001503	0.718475297	8	1.24E-03	0.616314987
WBGene00019197	0.284677429	5	1.13E-01	0.223189121
WBGene00003497	-0.529915386	46	1.42E+11	-0.550799223
WBGene00000479	0.012872895	13	1.12E+00	0.329204402
WBGene00015582	-0.105485987	4	1.20E+00	0.263053684
WBGene00015581	-0.07834838	14	4.50E+00	-0.429078029
WBGene00015580	0.063096073	28	7.76E-01	0.082342234
WBGene00000537	0.367835056	16	4.17E-03	0.387817522
WBGene00000854	-0.326566131	14	1.66E+02	-0.266783959
WBGene00015579	0.066771421	1	4.33E-01	0.433786078
WBGene00002986	-0.495529776	13	1.15E+03	-0.193695923
WBGene00003024	0.854678511	29	2.00E-10	0.694217229
WBGene00000437	0.584922897	6	1.03E-02	0.206797632
WBGene00020048	0.006776228	4	6.39E-01	-0.0013982
WBGene00020049	0.006899695	3	5.95E-01	0.005377127
WBGene00020047	-0.009280899	6	8.31E-01	0.052645001
WBGene00020050	-0.044502212	5	9.58E-01	-0.160509817
WBGene00004420	1	7	1.11E-04	0.24766813
WBGene00003063	0.586767866	8	4.17E-03	0.323854562
WBGene00020051	0.833146449	20	1.47E-07	0.541927634
WBGene00020052	-0.073306868	7	1.54E+00	0.17990264
WBGene00000846	0.08193094	24	4.58E-01	0.291111724
WBGene00194726	0.068131817	6	4.69E-01	0.476724479
WBGene00020053	-0.782586137	18	2.78E+06	-0.339640538
WBGene00020202	-0.404189483	8	3.69E+01	-0.099561091
WBGene00194734	0.027769459	3	5.39E-01	0.091197668
WBGene00020201	-0.071540504	2	7.47E-01	0.045142841
WBGene00020200	0.272475875	4	1.44E-01	-0.335938307
WBGene00022816	-0.207571676	82	1.70E+09	-0.13896365
WBGene00022817	3	10	5.54E-17	3
WBGene00044448	-0.1220857	7	2.30E+00	0.001631598
WBGene00001470	0.433970302	20	4.10E-04	0.393320611
WBGene00194729	0.19994318	2	2.65E-01	0.735938335
WBGene00015988	-0.374681617	38	6.56E+06	-0.316159764
WBGene00015992	-0.257731335	18	2.09E+02	-0.074895477
WBGene00003002	0.690421609	50	2.39E-13	0.352466252
WBGene00015386	-0.022978045	22	4.41E+00	-0.178100398
WBGene00015385	0.011667001	3	5.82E-01	-0.463679227
WBGene00003559	0.465538168	61	2.09E-10	0.207166553
WBGene00022660	0.954390719	1	3.23E-02	0.26038683
WBGene00022661	-0.346160642	5	6.79E+00	0.250126238
WBGene00022662	-0.388314565	3	3.82E+00	-0.08491249
WBGene00000395	-0.632994206	51	3.01E+14	-0.399113854
WBGene00003956	-0.618778994	15	2.17E+04	-0.519320305
WBGene00022516	-0.031174314	3	7.12E-01	0.428574356
WBGene00022792	-0.054281582	12	2.47E+00	0.042709215
WBGene00022795	0.216308566	5	1.76E-01	0.754751201

WBGene00022793	0.63943834	6	6.89E-03	0.623214587
WBGene00022794	0.438394213	4	5.70E-02	0.013839255
WBGene00044799	1	7	7.82E-06	1
WBGene00022791	0.614950468	2	5.44E-02	0.837433138
WBGene00015590	-0.038063422	9	1.44E+00	-0.059344406
WBGene00003102	0.042601346	16	8.40E-01	-0.077513874
WBGene00015591	-0.148766245	5	1.89E+00	0.021009211
WBGene00001174	0.547876387	10	2.61E-03	0.395155992
WBGene00001209	0.938247155	25	4.06E-10	0.644046738
WBGene00022785	0.077944324	7	4.40E-01	0.291952007
WBGene00000446	0.242349474	3	1.96E-01	0.062647623
WBGene00022786	0.937161972	4	3.49E-03	0.693925816
WBGene00004449	1	3	1.83E-03	0.79445498
WBGene00022787	1	4	4.13E-04	1
WBGene00000765	0.369576719	5	6.51E-02	1
WBGene00044324	0.395950803	3	9.53E-02	0.250356049
WBGene00022783	0.702283954	3	2.25E-02	0.369552004
WBGene00000835	-0.066032348	2	7.32E-01	-0.033769298
WBGene00004918	0.03402168	2	5.00E-01	-0.003160546
WBGene00015333	0.025831576	9	7.55E-01	-0.388980884
WBGene00000845	-0.454019042	8	5.83E+01	-0.340751263
WBGene00015332	-0.115875578	10	3.76E+00	-0.089227873
WBGene00015334	0.848631203	5	2.90E-03	2
WBGene00022803	1	14	6.10E-07	0.425235341
WBGene00044762	0.672492641	6	5.40E-03	0.841030719
WBGene00022800	0.817498791	27	2.08E-09	0.696058859
WBGene00022798	0.045752319	6	5.53E-01	0.175260731
WBGene00022799	-0.207863104	2	1.26E+00	-0.010152859
WBGene00044447	-0.947447396	7	2.14E+03	-0.260881983
WBGene00022797	-0.834875672	11	2.26E+04	-0.261437816
WBGene00022801	-0.228181438	19	1.62E+02	-0.376065367
WBGene00022796	0.181998725	3	2.61E-01	0.699022119
WBGene00022802	0.116369893	4	3.46E-01	0.119611369
WBGene00044763	-0.056786619	4	9.13E-01	0.359408168
WBGene00001628	0.02943193	20	1.28E+00	0.004427486
WBGene00016203	-0.070470293	21	1.07E+01	0.151338458
WBGene00044634	-0.310917178	5	5.40E+00	0.243773996
WBGene00194730	0.077227138	2	4.24E-01	0.222477494
WBGene00043051	-0.268339312	8	1.06E+01	0.061722799
WBGene00003801	0.228234104	20	2.45E-02	0.276212608
WBGene00004303	0.033392295	16	9.76E-01	0.60071095
WBGene00016207	-0.006330225	3	6.33E-01	0.035847053
WBGene00016209	0	1	5.26E-01	0
WBGene00016202	0.089022395	15	3.95E-01	-0.028569476
WBGene00016204	0.125536739	5	3.18E-01	-0.082223669
WBGene00000665	0.212047933	5	1.81E-01	0.180536827
WBGene00002879	0.537564627	10	2.93E-03	0.65346452

WBGene00045246	0.298094346	13	2.29E-02	0.108488563
WBGene00016206	-0.049171369	4	8.75E-01	0.099678169
WBGene00016208	-0.074849767	6	1.35E+00	0.228553702
WBGene00018844	0.722845932	6	3.72E-03	0.68928219
WBGene00018842	1	8	5.50E-05	1
WBGene00045247	0.828199123	10	1.21E-04	1
WBGene00044633	0.256877829	4	1.58E-01	0.443812262
WBGene00018845	0.113659994	3	3.60E-01	0.346165032
WBGene00018846	0.457102759	11	5.08E-03	0.045125562
WBGene00000041	0.483567538	20	1.53E-04	0.136739652
WBGene00015558	1	6	3.71E-04	0.850410556
WBGene00000542	0.750150299	26	2.19E-08	0.505832729
WBGene00015557	0.10446794	14	3.16E-01	0.284681023
WBGene00015559	-0.104523183	10	3.32E+00	0.101949135
WBGene00044446	-0.819129082	7	7.39E+02	-0.457228214
WBGene00000507	0.115549188	9	3.06E-01	0.040665114
WBGene00000508	0.832585799	15	4.14E-06	0.79696259
WBGene00018408	-0.136078272	8	3.15E+00	0.296292824
WBGene00003021	0.196272911	19	5.11E-02	0.244086389
WBGene00018407	0.59562464	10	1.55E-03	0.504168144
WBGene00004125	0.567943293	9	3.22E-03	0.530167764
WBGene00018409	0.278533177	6	9.91E-02	0.951209173
WBGene00018410	-0.821359253	6	3.34E+02	-0.14002322
WBGene00018411	-0.187124429	8	5.04E+00	-0.14117021
WBGene00001059	-0.607684059	12	2.85E+03	-0.355711411
WBGene00019681	0.043462334	2	4.82E-01	-0.194088523
WBGene00019680	0.960321517	3	6.68E-03	1
WBGene00019679	0.742843642	6	3.21E-03	0.618556329
WBGene00019678	0.610874998	9	2.09E-03	0.348736409
WBGene00019677	0.241209381	6	1.31E-01	-0.004357504
WBGene00019682	-0.014434691	10	1.24E+00	-0.149542843
WBGene00000448	0.440809919	10	8.45E-03	0.740832793
WBGene00000939	0.253705043	37	1.18E-03	0.167192829
WBGene00000143	0.191595288	10	1.30E-01	0.101692659
WBGene00019458	-0.007006167	7	8.88E-01	-0.061376396
WBGene00001743	-0.069972092	8	1.72E+00	0.246466138
WBGene00019457	0.220936041	7	1.35E-01	0.44922783
WBGene00019460	0.452211729	3	7.31E-02	0.534641489
WBGene00019456	0.00816204	3	5.91E-01	0.006442541
WBGene00019459	-0.019952016	3	6.75E-01	0.000699801
WBGene00019455	0.46645853	6	2.47E-02	0.843154481
WBGene00004042	0.988037791	18	3.37E-08	0.665383279
WBGene00015753	0.476231166	6	2.30E-02	0.682375976
WBGene00001565	0.579821229	42	1.41E-09	0.705400668
WBGene00004433	0.250795575	2	2.18E-01	0.005690886
WBGene00015755	-0.155299712	4	1.59E+00	-0.050649938
WBGene00015752	0.172784816	14	1.17E-01	0.067391776

WBGene00002011	0.054603147	2	4.62E-01	-0.069761539
WBGene00015754	0.113297592	25	2.14E-01	0.560299499
WBGene00017044	0	1	5.26E-01	0
WBGene00017042	-0.087412139	12	3.76E+00	0.041844843
WBGene00017041	0.752643905	4	9.81E-03	0.668911653
WBGene00017045	0.384537647	6	4.53E-02	0.458115024
WBGene00086546	0.273881454	9	6.22E-02	0.506086177
WBGene00016803	0.547417781	10	2.63E-03	0.607814956
WBGene00004187	0.922228619	45	1.99E-16	0.717995573
WBGene00016804	0.003748299	2	5.61E-01	0.000970617
WBGene00016801	0.461930868	5	3.57E-02	0.989468259
WBGene00016800	-0.718293637	43	5.53E+13	-0.695619861
WBGene00220258	0.204549141	4	2.11E-01	-0.182878829
WBGene00016799	-0.332297369	10	4.03E+01	0.032485157
WBGene00006772	0.571816975	23	7.22E-06	0.463209332
WBGene00004899	-0.008768406	10	1.16E+00	-0.23303491
WBGene00016242	-0.308544546	23	3.06E+03	-0.325641357
WBGene00006818	0.060471423	12	5.71E-01	0.060952864
WBGene00206533	-0.091870742	4	1.11E+00	-0.007873203
WBGene00016239	-0.619482615	13	6.22E+03	-0.56142389
WBGene00016238	0.114771712	5	3.41E-01	0.581493785
WBGene00004342	0.182610967	8	1.70E-01	0.032128139
WBGene00015350	0.125783097	14	2.32E-01	-0.115288887
WBGene00015349	-0.149081754	14	1.26E+01	-0.494283262
WBGene00044445	-0.376119825	4	5.46E+00	0.027557266
WBGene00015348	-0.330320797	6	8.90E+00	-0.475590138
WBGene00006628	-0.719402242	5	7.67E+01	0.154225643
WBGene00006627	-0.931588936	8	4.65E+03	-0.576141126
WBGene00015352	0.293204142	8	6.15E-02	0.272589871
WBGene00003952	0.027842114	4	5.68E-01	0.131639414
WBGene00015347	0.178909922	8	1.76E-01	0.119280399
WBGene00015346	0.520992749	5	2.44E-02	0.517913425
WBGene00015353	0.496196718	5	2.86E-02	0.14685914
WBGene00015351	0.106695834	3	3.72E-01	0.22527911
WBGene00015345	0.34404862	2	1.53E-01	0.371171599
WBGene00002231	0.249837076	13	4.42E-02	0.354832236
WBGene00017320	-0.093110061	11	3.44E+00	0.191077179
WBGene00003562	-0.243822227	31	7.52E+03	-0.553138375
WBGene00000666	-0.301266743	6	7.18E+00	-0.424437452
WBGene00017319	0.167399947	7	2.10E-01	-0.10494953
WBGene00017321	-0.151115638	3	1.25E+00	0.114991006
WBGene00007056	0.156626355	6	2.44E-01	0.172121984
WBGene00017323	-0.205585234	4	2.10E+00	0.278088223
WBGene00044444	-0.058525808	5	1.05E+00	0.229991782
WBGene00017322	-0.560387996	9	2.75E+02	-0.364251019
WBGene00003243	0.104966686	68	1.31E-01	0.02019217
WBGene00017358	0.048527855	63	3.80E+00	0.098219205

WBGene00017357	-0.079998922	4	1.04E+00	0.202440726
WBGene00017356	-0.227630344	5	3.15E+00	0.284553268
WBGene00017355	0.283501404	9	5.64E-02	-0.13482923
WBGene00017354	0.417987502	12	6.00E-03	-0.083262974
WBGene00004726	0.191348621	17	6.76E-02	0.088083256
WBGene00017360	0.017200453	2	5.33E-01	0.009689279
WBGene00017359	-0.135588228	3	1.16E+00	-0.356925895
WBGene00017353	-0.405757926	4	6.45E+00	-0.135582846
WBGene00017361	-0.014517435	1	5.49E-01	-0.01422927
WBGene00284846	0.04073614	3	5.07E-01	0.331539219
WBGene00022580	0.034125809	10	7.28E-01	0.168472468
WBGene00022583	-0.068337513	2	7.38E-01	0.200204473
WBGene00022579	0.201225163	10	1.17E-01	0.146303978
WBGene00022581	-0.19170087	3	1.52E+00	0.01071586
WBGene00044801	0	3	6.15E-01	0
WBGene00206468	0	4	6.64E-01	0
WBGene00022578	0	4	6.64E-01	0
WBGene00022582	0	1	5.26E-01	0
WBGene00043948	-0.06057114	2	7.17E-01	-0.216601319
WBGene00044802	0	3	6.15E-01	0
WBGene00206477	0	4	6.64E-01	0
WBGene00019879	0	4	6.64E-01	0
WBGene00019880	0.045518618	1	4.61E-01	0.087659965
WBGene00006840	0.275271488	14	2.64E-02	0.454551208
WBGene00019881	-0.0603941	7	1.38E+00	0.348797825
WBGene00007008	0.567762238	13	5.80E-04	0.558439123
WBGene00019882	-0.188891689	27	5.50E+02	-0.024763465
WBGene00019878	-0.668640823	12	6.19E+03	-0.167162288
WBGene00019877	0.450848896	13	2.85E-03	0.220484484
WBGene00019883	0.360932469	28	2.48E-04	0.2511712
WBGene00019884	-0.141410169	29	2.39E+02	-0.096695685
WBGene00022700	0.047882421	4	5.08E-01	0.222277006
WBGene00044677	0.423099744	14	3.09E-03	0.385392909
WBGene00022699	0.0104022	1	5.11E-01	-0.02054126
WBGene00022698	-0.177273006	3	1.42E+00	-0.157004413
WBGene00002249	0.217692476	11	8.66E-02	0.221172123
WBGene00022702	0.189679287	5	2.09E-01	0.34955773
WBGene00022703	0.261563217	8	8.22E-02	0.372142556
WBGene00022697	0.060790501	12	5.69E-01	0.168413025
WBGene00022704	-0.404532334	10	8.90E+01	-0.023160593
WBGene00023405	0.001896496	22	2.57E+00	0.018091093
WBGene00000414	-0.08770626	4	1.09E+00	-0.115427084
WBGene00022862	0.275205266	14	2.65E-02	0.447988455
WBGene00022864	0.54602905	1	1.07E-01	0.015649512
WBGene00044588	0.215922609	9	1.11E-01	0.062792841
WBGene00004175	-0.500686668	7	5.29E+01	0.564877804
WBGene00022865	-0.050130182	6	1.12E+00	0.094606869

WBGene00016250	0.588419121	18	4.66E-05	0.449127245
WBGene00004460	0.460013304	15	1.29E-03	-0.17071316
WBGene00016249	0.26603233	3	1.76E-01	-0.342665341
WBGene00018369	0.421427765	29	3.58E-05	0.657927133
WBGene00018370	-0.002873275	3	6.23E-01	0.02609792
WBGene00018367	0.352892901	10	2.21E-02	0.062576323
WBGene00018371	0.086283551	6	4.10E-01	-0.101914613
WBGene00018366	-0.027284314	1	5.70E-01	-0.054016978
WBGene00015418	0.280395235	56	1.73E-05	0.308485268
WBGene00022507	0.612640389	4	2.15E-02	0.480127622
WBGene00022505	-0.629865329	16	4.88E+04	-0.841500373
WBGene00044443	0.117163258	5	3.35E-01	-0.409736403
WBGene00006614	0.754624754	19	1.27E-06	0.984739359
WBGene00022506	0.389319844	4	7.50E-02	0.494886349
WBGene00043097	0.196605771	4	2.21E-01	0.706155378
WBGene00015337	0.165365745	5	2.45E-01	0.177266622
WBGene00015336	0.300887587	5	1.02E-01	0.696443723
WBGene00015335	-0.389665056	12	1.77E+02	0.241633216
WBGene00015519	-0.533996153	6	4.00E+01	-0.4148204
WBGene00001612	0.244712447	15	3.58E-02	0.603725633
WBGene00015520	0.056533947	1	4.46E-01	0.117697831
WBGene00015521	0.145489507	2	3.27E-01	0.049155433
WBGene00015522	-0.101144995	9	2.71E+00	-0.062275568
WBGene00015523	-0.581205287	13	3.69E+03	-0.549658444
WBGene00015518	0.447192103	4	5.43E-02	-0.316468899
WBGene00015524	0.149688445	13	1.73E-01	0.153505898
WBGene00015525	0.182246486	22	5.16E-02	0.058061354
WBGene00015526	0.866452674	8	3.20E-04	0.11040994
WBGene00015747	-0.122787976	29	1.42E+02	-0.029281164
WBGene00000439	-0.118750049	10	3.88E+00	0.052361131
WBGene00017696	-0.08429338	6	1.45E+00	0.050619834
WBGene00001688	0.158037887	12	1.65E-01	0.196504834
WBGene00001028	0.010637018	3	5.85E-01	0.078857996
WBGene00006662	1	27	3.08E-12	1
WBGene00017695	2	2	4.02E-04	2
WBGene00017694	2	8	1.93E-09	2
WBGene00017693	1	6	3.21E-05	2
WBGene00017698	2	10	1.09E-10	1
WBGene00001078	0.276017412	14	2.61E-02	0.42218204
WBGene00017692	0.075801296	3	4.30E-01	0.169514863
WBGene00003993	0.304541812	12	2.55E-02	0.592773532
WBGene00001443	1	27	1.32E-11	1
WBGene00015124	0.686098128	4	1.42E-02	0.618147047
WBGene00015125	0.6231751	8	2.98E-03	0.802164425
WBGene00015126	0.555230413	20	3.68E-05	0.238918496
WBGene00015128	0.198393636	29	1.81E-02	0.08523595
WBGene00015129	0.302284916	2	1.80E-01	0.594465891

WBGene00015130	0.150140961	13	1.72E-01	-0.069785398
WBGene00015131	-0.086461946	22	1.75E+01	-0.038667047
WBGene00044678	-0.124905823	7	2.36E+00	-0.092427575
WBGene00015132	0.01474471	15	1.24E+00	0.514073479
WBGene00015133	0.009205051	2	5.49E-01	0.02344831
WBGene00022717	0.332894592	16	7.37E-03	0.150365509
WBGene00022718	0.246548868	42	7.40E-04	-0.087468248
WBGene00022719	0.133417526	13	2.16E-01	0.194191151
WBGene00022720	0.270041453	10	5.49E-02	0.638481982
WBGene00022721	-0.006611821	7	8.85E-01	0.232209871
WBGene00004856	-0.162562675	29	4.31E+02	0.082034212
WBGene00022722	-0.162829731	14	1.54E+01	0.048776586
WBGene00019801	0.020806603	13	1.00E+00	-0.110504367
WBGene00003253	0.134627458	9	2.52E-01	0.109477371
WBGene00019800	0.254387575	7	1.02E-01	-0.264123443
WBGene00019301	-0.094539664	30	7.59E+01	-0.209866912
WBGene00019302	-0.640899987	3	1.26E+01	-1
WBGene00019303	0.034491786	4	5.48E-01	0.101279413
WBGene00019305	-0.173012241	7	3.51E+00	0.036162222
WBGene00019304	0.43009841	6	3.24E-02	0.330373341
WBGene00219329	-0.6100145	9	4.54E+02	-0.574772052
WBGene00018833	-0.04457134	19	4.95E+00	-0.253291535
WBGene00269391	0.207592981	1	2.87E-01	0.472454151
WBGene00006975	0.302583901	38	1.75E-04	-0.010427999
WBGene00018834	0.076241982	1	4.21E-01	-0.179188041
WBGene00018835	0.79000309	5	4.25E-03	0.458445166
WBGene00004201	-0.020289903	7	9.91E-01	-0.133076496
WBGene00003929	0.868582421	28	2.73E-10	0.799223647
WBGene00018836	0.381927446	5	6.01E-02	0.884535879
WBGene00018417	-0.080880241	11	2.98E+00	-0.229719914
WBGene00018423	0.420157311	7	2.59E-02	0.598376574
WBGene00018418	-0.375917142	22	9.25E+03	-0.450136283
WBGene00018419	0	2	5.69E-01	0.013986063
WBGene00018420	0.050369405	11	6.29E-01	0.176159858
WBGene00018421	0.025230102	8	7.19E-01	0.003240764
WBGene00018422	0.134738918	4	3.12E-01	0.295024927
WBGene00010475	0.6384631	21	4.30E-06	0.858128128
WBGene00014021	0.060266186	8	5.21E-01	0.241748887
WBGene00014022	0.162708704	9	1.90E-01	0.377452767
WBGene00014031	0.08590197	5	4.11E-01	0.227409469
WBGene00014023	0.270027274	18	1.48E-02	0.269106041
WBGene00014024	-0.055747315	2	7.04E-01	0.144952294
WBGene00014025	0.110744627	7	3.35E-01	0.005509179
WBGene00002998	0.454835842	19	3.77E-04	0.307516431
WBGene00006768	0.960086733	29	1.05E-11	0.878975033
WBGene00014027	0.077893532	8	4.43E-01	0.327983745
WBGene00014028	-0.368160352	16	6.83E+02	-0.059558565

WBGene00000388	-0.023587208	5	8.37E-01	0.009370142
WBGene00014032	-0.558412916	6	4.80E+01	-0.353260005
WBGene00014029	-0.116814367	10	3.80E+00	0.282178062
WBGene00014030	0.778527419	6	2.47E-03	0.609562213
WBGene00014038	-0.145525168	2	9.91E-01	0.065249689
WBGene00014033	0.734464535	19	1.86E-06	0.512477188
WBGene00014035	0.329400638	25	1.11E-03	0.169859394
WBGene00014036	0.466649917	15	1.17E-03	0.806925363
WBGene00014034	-0.050059776	5	9.93E-01	0.143411706
WBGene00014037	-0.001960706	4	6.72E-01	-0.024285858
WBGene00001734	-0.149797226	21	5.57E+01	-0.407555607
WBGene00011142	-0.371180982	11	9.29E+01	-0.189662596
WBGene00011143	0.874848539	9	1.47E-04	0.800015847
WBGene00001227	0.995544881	11	8.60E-06	0.97022698
WBGene00011144	0.233067904	4	1.80E-01	0.234242241
WBGene00011145	0.221961991	6	1.51E-01	0.431393029
WBGene00011146	0.400269475	32	2.79E-05	0.375435715
WBGene00011147	-0.232837386	10	1.36E+01	-0.117766831
WBGene00010307	-0.186986869	8	5.03E+00	0.089270567
WBGene00010308	-0.275927519	10	2.17E+01	-0.01622821
WBGene00010309	-0.088553987	11	3.26E+00	-0.113011595
WBGene000185006	0.019055876	1	4.98E-01	0.036781487
WBGene00006977	-0.226955452	10	1.27E+01	-0.041533259
WBGene00004269	0.001611392	2	5.65E-01	0.022861018
WBGene00010310	0.058759111	5	4.90E-01	-0.013402168
WBGene00010311	0.192083964	5	2.06E-01	0.321571766
WBGene00010314	-0.8015573	23	2.07E+08	-1
WBGene00050931	-0.24529431	3	1.95E+00	0.00127386
WBGene00010315	-0.076944775	8	1.83E+00	-0.159858317
WBGene00194871	-0.12267814	2	9.08E-01	0.103430117
WBGene00003518	-0.131906051	16	1.45E+01	-0.213765581
WBGene00011298	0.165472082	10	1.73E-01	-0.159719744
WBGene00011299	0.000558232	22	2.65E+00	-0.217598881
WBGene00011300	0.367611271	10	1.88E-02	-0.003355887
WBGene00000549	0.375004526	19	1.71E-03	0.068674319
WBGene00001749	0.248552399	4	1.65E-01	0.409975219
WBGene00003001	-0.25463208	29	5.64E+03	-0.213913159
WBGene00044406	0.041713791	2	4.85E-01	0.3527866
WBGene00008513	0.364699515	7	4.09E-02	0.583845168
WBGene00001385	1	3	1.68E-03	0.467290531
WBGene00001386	1	3	8.44E-04	0.697278607
WBGene00008514	0.341022374	18	4.10E-03	0.186082463
WBGene00303021	0.212600902	11	9.20E-02	0.226855871
WBGene00001609	-0.179505812	22	1.31E+02	-0.044955891
WBGene00013978	-0.074941618	6	1.35E+00	0.181152817
WBGene00013979	-0.262594715	7	7.37E+00	0.854191644
WBGene00013980	0.438887006	5	4.15E-02	0.705890493

WBGene00000863	1	14	3.03E-07	0.731409198
WBGene00013982	-0.174430858	6	2.81E+00	0.435392978
WBGene00001720	-0.187128787	3	1.48E+00	-0.431926262
WBGene00000425	-0.42706799	23	4.43E+04	-0.14247091
WBGene00013985	0.314163532	28	8.77E-04	0.074234083
WBGene00013988	-0.200036561	4	2.04E+00	-0.598351332
WBGene00001135	0.37681098	24	4.54E-04	0.492429118
WBGene00013986	0.774284732	3	1.60E-02	0.988173281
WBGene00013983	0.22730931	10	8.76E-02	0.404436391
WBGene00013989	-0.038724243	2	6.59E-01	0.431565228
WBGene00013984	-0.077230097	1	6.60E-01	-0.059877872
WBGene00013987	-0.271517433	3	2.21E+00	-0.453458042
WBGene00003597	0.211302368	26	1.76E-02	0.113545562
WBGene00010074	-0.248026714	7	6.53E+00	-0.088871474
WBGene00004223	-0.31746829	9	2.39E+01	-0.07625842
WBGene00000960	-0.465776073	14	1.25E+03	-0.131442015
WBGene00002081	-0.174143897	24	1.86E+02	0.00968197
WBGene00006526	-0.191283083	10	8.60E+00	-0.114842197
WBGene00013850	0.478442384	20	1.70E-04	0.514971295
WBGene00013847	0.601659801	19	2.32E-05	0.656267529
WBGene00013849	-0.338380657	24	8.76E+03	-0.342832199
WBGene00013846	-0.956680048	26	1.12E+11	-0.972968622
WBGene00013848	0.249574882	17	2.48E-02	0.269363174
WBGene00004391	0.003637432	19	1.98E+00	0.040198668
WBGene00011963	-0.054026305	4	8.99E-01	-0.295747612
WBGene00011962	0.09961688	16	3.31E-01	0.2291705
WBGene00011964	0.131877707	6	2.93E-01	-0.259911641
WBGene00000934	-0.700137421	12	9.25E+03	-0.453310808
WBGene00011365	0	1	5.26E-01	-0.003415441
WBGene00011366	-0.561519371	6	4.91E+01	-0.940171838
WBGene00010795	-0.25438804	12	3.16E+01	-0.09070137
WBGene00010796	0.474443076	25	3.25E-05	0.473217294
WBGene00010453	-0.333772862	45	2.09E+07	-0.183680138
WBGene00010455	-0.630728274	7	1.55E+02	-0.806487026
WBGene00010454	-0.303553877	15	1.68E+02	-0.392927575
WBGene00005936	0.098104254	6	3.76E-01	0.244164511
WBGene00008043	-0.472974556	14	1.39E+03	-0.251271584
WBGene00008038	0.021245326	2	5.25E-01	-0.021372181
WBGene00008044	-0.719948313	6	1.58E+02	-0.432339095
WBGene00000770	-0.099526401	13	5.18E+00	-0.197030494
WBGene00008042	-1	6	2.56E+04	-0.983974733
WBGene00008039	-0.361432284	14	2.75E+02	-0.991917884
WBGene00008040	-0.401371972	4	6.29E+00	0.1241125
WBGene00008041	-0.168758489	3	1.36E+00	0.028476306
WBGene00001242	-0.392221207	9	5.07E+01	-0.045400841
WBGene00001263	0.998829281	35	2.70E-14	0.787073396
WBGene00010573	-0.544838058	30	3.27E+07	-0.710830209

WBGene00010574	-0.788562376	5	1.20E+02	-2
WBGene00010575	-0.284655106	14	9.01E+01	-0.478928543
WBGene00000799	-0.447248157	13	5.94E+02	0.122026182
WBGene00006576	-0.104483306	14	6.58E+00	-0.059021588
WBGene00008001	-0.209445423	6	3.64E+00	-0.070218818
WBGene00008000	-0.392971617	8	3.33E+01	-0.458862165
WBGene00001689	-0.154734617	11	7.15E+00	-0.272981163
WBGene00004343	0.083207563	34	4.59E-01	0.219282556
WBGene00008002	-0.033928547	1	5.81E-01	0.029689134
WBGene00012059	0.352545433	8	3.57E-02	0.714097168
WBGene00012060	-0.056761507	3	8.03E-01	0.477700893
WBGene00206422	-0.683543157	3	1.54E+01	-1
WBGene00206421	-0.421228786	3	4.47E+00	-0.406971078
WBGene00012061	-0.833832852	7	8.34E+02	-0.92550682
WBGene00012062	-0.612552028	4	2.05E+01	-0.793511937
WBGene00010036	0.089945283	4	4.01E-01	-0.183917605
WBGene00001284	0.175330538	26	4.37E-02	-0.055144414
WBGene00010035	0.537090443	9	4.40E-03	-0.026358954
WBGene00010037	0.9854952	6	5.35E-04	0.769653382
WBGene00010039	-0.013755609	9	1.12E+00	0.114192262
WBGene00010040	0.021200762	3	5.56E-01	0.00227031
WBGene00010038	-0.341467027	8	2.08E+01	-0.581953209
WBGene00004980	0.507143355	28	4.76E-06	-0.009421404
WBGene00007186	-0.089121154	17	8.43E+00	0.347350723
WBGene00007188	-0.106902098	8	2.41E+00	0.19344337
WBGene00000235	0.168713098	4	2.58E-01	-0.42404958
WBGene00007187	0.326185385	6	6.97E-02	0.537558227
WBGene00000268	0.009056643	32	4.41E+00	0.177331781
WBGene00007185	0.01471891	2	5.38E-01	0.18399878
WBGene00001094	0.116717413	10	2.94E-01	0.21704892
WBGene00007184	0.033996156	28	1.70E+00	0.114007987
WBGene00004933	-0.019538408	5	8.15E-01	0.015876826
WBGene00010130	0.519646603	3	5.32E-02	0.231022462
WBGene00010131	-0.100362276	6	1.63E+00	0.201546191
WBGene00010132	-0.021945626	8	1.11E+00	0.260877695
WBGene00219298	0.147156714	2	3.24E-01	0.366477213
WBGene00000550	0.437842705	23	1.48E-04	0.286508148
WBGene00014218	0.301312395	14	1.81E-02	0.404833973
WBGene00014224	0.189127206	3	2.52E-01	0.41212647
WBGene00014222	-0.00080387	4	6.67E-01	0.676687779
WBGene00014223	0.8686346	11	3.87E-05	0.745643766
WBGene00014219	-0.315761142	15	2.03E+02	-0.329530594
WBGene00014220	-0.09632087	11	3.58E+00	0.098130836
WBGene00003504	0.203596089	11	1.02E-01	0.383188229
WBGene00014221	-0.09802046	6	1.60E+00	0.081535928
WBGene00014225	-0.59098259	4	1.82E+01	0.320431989
WBGene00194691	0.019404717	2	5.28E-01	0.358162564

WBGene00006755	0.111147964	32	1.94E-01	0.266260462
WBGene00014226	0.108910081	2	3.75E-01	-0.25342049
WBGene00008169	-0.350557101	3	3.20E+00	0.166812648
WBGene00008170	-0.367527535	5	7.81E+00	0.178337233
WBGene00008171	-0.371843019	5	8.03E+00	0.156486901
WBGene00008172	-0.184971887	5	2.39E+00	-0.200500275
WBGene00008173	-0.883339727	7	1.26E+03	-0.840725186
WBGene00008174	-0.68907099	4	3.15E+01	-0.803276846
WBGene00008176	-0.219051302	4	2.27E+00	-0.039130677
WBGene00000421	0.344550577	37	4.86E-05	0.436775914
WBGene00008168	0.162212275	2	3.06E-01	0.407493582
WBGene00008167	0.063393425	8	5.06E-01	0.013182967
WBGene00004401	-0.136716372	7	2.60E+00	0.08316111
WBGene00008175	-0.508321317	4	1.14E+01	-0.360717344
WBGene00010226	-0.30133104	7	1.02E+01	-0.618878837
WBGene00010227	-0.281493955	3	2.31E+00	-0.271050331
WBGene00010228	-0.350385209	20	2.44E+03	-0.411965386
WBGene00043992	-0.283960785	9	1.71E+01	-0.371875286
WBGene00004180	-0.010200443	5	7.67E-01	-0.048748388
WBGene00010229	0.046743914	3	4.93E-01	0.268911381
WBGene00001831	0.321574836	9	3.85E-02	-0.042949975
WBGene00001955	0.523287872	26	6.71E-06	0.207188888
WBGene00006540	0.515541094	12	1.73E-03	0.101073528
WBGene00010230	0.687099738	5	8.28E-03	0.235078589
WBGene00006704	0.481218942	8	1.10E-02	-0.197847463
WBGene00001570	0.263505396	18	1.67E-02	0.267081521
WBGene00007610	0.014878651	11	9.58E-01	-0.426885476
WBGene00007611	-0.289723191	9	1.81E+01	-0.257561972
WBGene00007405	0.491269688	11	3.39E-03	0.604215965
WBGene00007402	-0.713494908	9	1.29E+03	-0.383151831
WBGene00044227	0.035468293	6	5.97E-01	-0.235004426
WBGene00007401	-1	12	1.65E+07	-1
WBGene00007406	-0.579966244	6	5.62E+01	-0.600882421
WBGene00007404	-0.284930932	11	3.34E+01	-0.349193869
WBGene00007403	-0.122111364	14	8.50E+00	0.134035921
WBGene00007400	-0.075534608	6	1.35E+00	0.457784666
WBGene00006579	0.268356283	37	7.03E-04	-0.017062251
WBGene00003571	-0.038658366	7	1.15E+00	0.018904634
WBGene00003572	-0.176515025	12	1.17E+01	-0.008252427
WBGene00007399	-0.142629258	5	1.81E+00	0.130539595
WBGene00043994	-0.115549135	7	2.18E+00	0.501577801
WBGene00000932	0	1	5.26E-01	-0.007748362
WBGene00004097	0.010950906	3	5.84E-01	0.015446728
WBGene00001951	0.351426806	7	4.57E-02	0.466595738
WBGene00011498	0.050740896	5	5.16E-01	-0.144061484
WBGene00002064	-0.342805053	9	3.08E+01	-0.050328365
WBGene00000405	-0.004374282	8	9.43E-01	-0.014547718

WBGene00011499	0.135476957	6	2.85E-01	-0.289901574
WBGene00011500	0.222685681	10	9.22E-02	-0.173879552
WBGene00001155	0.325040263	6	7.03E-02	0.280039688
WBGene00011502	0.196267798	18	5.63E-02	0.066615951
WBGene00011503	0.019708927	24	1.97E+00	0.001949345
WBGene00011501	0.088565918	13	3.99E-01	-0.342709654
WBGene00000366	1	36	6.54E-17	0.846978444
WBGene00011216	0.3389406	11	2.06E-02	0.381694312
WBGene00005021	0.554812672	10	2.42E-03	0.415236199
WBGene00006910	0.608366708	5	1.38E-02	1
WBGene00006911	0.470862589	3	6.70E-02	1
WBGene00011218	0.13866154	3	3.20E-01	0.398610846
WBGene00011217	0.215287099	11	8.91E-02	0.80858088
WBGene00011220	-0.290677411	5	4.74E+00	-0.344240895
WBGene00003158	0.118847005	19	2.22E-01	-0.158243425
WBGene00011219	0.08245888	6	4.22E-01	-0.14858094
WBGene00014011	0.218669223	17	4.23E-02	0.318099574
WBGene00014012	0.688743716	16	2.22E-05	0.345349771
WBGene00014013	0.589064183	12	6.79E-04	0.496912807
WBGene00014014	0.082800746	19	4.41E-01	-0.000633192
WBGene00014020	-0.067804076	3	8.46E-01	0.171646248
WBGene00000567	0.011964734	13	1.13E+00	0.365795768
WBGene00014015	-0.113788314	17	1.29E+01	0.27959283
WBGene00000189	-0.151465638	6	2.37E+00	0.76570061
WBGene00003035	0.541900487	3	4.79E-02	0.534440809
WBGene00014016	0.448794812	2	1.03E-01	0.135481769
WBGene00014017	-0.110924946	5	1.47E+00	0.32613356
WBGene00014018	0.070803031	5	4.53E-01	0.27163756
WBGene00014019	0.099349374	7	3.68E-01	0.183497294
WBGene00010781	-0.036028807	9	1.41E+00	-0.243799427
WBGene00185002	-0.576433525	11	1.06E+03	-0.130658226
WBGene00010782	-0.130199743	3	1.13E+00	0.033605819
WBGene00010779	0.06251149	4	4.68E-01	0.164588045
WBGene00010783	0	1	5.26E-01	0.007109941
WBGene00010780	0.644637602	8	2.45E-03	1
WBGene00010778	0.506079721	18	2.07E-04	0.685123989
WBGene00010784	0.033957943	4	5.49E-01	0.100408626
WBGene00014075	0.345040146	15	7.62E-03	0.868147846
WBGene00014073	0.026326293	6	6.38E-01	0.393832065
WBGene00014074	0.773581706	13	3.50E-05	0.788372592
WBGene00206488	0.046268345	5	5.31E-01	0.123125279
WBGene00006449	-0.501239491	23	2.36E+05	-0.532103307
WBGene00009593	-0.197704625	13	1.98E+01	-0.211465169
WBGene00009594	0.115175805	34	1.63E-01	0.208193964
WBGene00043995	-0.261457661	2	1.54E+00	-0.182630907
WBGene00009595	-1	7	1.84E+04	-1
WBGene00009592	-0.011699539	4	7.09E-01	-0.005726147

WBGene00010545	-0.35933432	6	1.10E+01	-0.259302092
WBGene00010538	-0.418461087	4	6.92E+00	-1
WBGene00010539	0	3	6.15E-01	-0.007988558
WBGene00010541	0	1	5.26E-01	0
WBGene00010540	-0.158796217	19	4.33E+01	-0.270254014
WBGene00010544	-0.025566435	1	5.67E-01	-0.159393299
WBGene00010547	-0.63847746	7	1.66E+02	-0.563031579
WBGene00001603	-1	17	2.74E+09	-1
WBGene00010542	0.279898793	2	1.96E-01	0.420745351
WBGene00044903	0.147103623	9	2.23E-01	-0.02122031
WBGene00010546	-0.185448608	7	3.89E+00	-0.418709176
WBGene00003389	0.008181427	28	3.42E+00	0.153713027
WBGene00007010	0.079345323	13	4.52E-01	0.069981617
WBGene00011221	0.411695169	27	8.39E-05	0.35169219
WBGene00194886	0.840689989	2	2.30E-02	0.396749652
WBGene00007319	0.365829305	3	1.10E-01	0.518227199
WBGene00007321	-0.153958099	8	3.72E+00	0.378524831
WBGene00004100	-0.387320307	7	2.07E+01	-0.224411234
WBGene00219314	-0.722972416	4	3.81E+01	-0.412362249
WBGene00007320	-0.285800042	3	2.36E+00	-0.510332893
WBGene00007322	-0.125312044	12	6.10E+00	-0.198130873
WBGene00045242	-0.301727672	3	2.54E+00	-0.257479716
WBGene00007324	-0.31074353	3	2.65E+00	-0.172336003
WBGene00007323	-0.146824484	9	4.29E+00	-0.209378037
WBGene00219280	-0.115084153	4	1.27E+00	-0.211845764
WBGene00004344	0.290100704	9	5.28E-02	0.456601518
WBGene00002104	0	1	5.26E-01	-0.041739373
WBGene00002105	0	2	5.69E-01	-0.009194248
WBGene00002106	-0.454343794	2	3.22E+00	-0.085558365
WBGene00010862	-0.515536745	4	1.19E+01	-0.190283962
WBGene00010863	-0.601893143	5	3.58E+01	-0.131309148
WBGene00010866	-0.823684046	5	1.51E+02	-0.003108895
WBGene00010864	-0.468582992	6	2.47E+01	-0.618505927
WBGene00010865	-0.400227273	2	2.62E+00	-0.285118713
WBGene00011808	-1	9	3.16E+04	-0.789722261
WBGene00011803	-0.080687364	21	1.33E+01	-0.080019465
WBGene00011804	0.31822927	9	3.98E-02	-0.45656165
WBGene00044222	-0.367630596	2	2.31E+00	-0.424519298
WBGene00011805	-0.233483289	7	5.79E+00	-0.725997907
WBGene00011809	-0.021427129	5	8.25E-01	-0.04833983
WBGene00269433	-0.444508161	7	3.32E+01	-0.460193998
WBGene00011806	0.16800187	19	8.74E-02	0.014820704
WBGene00011807	-0.270906165	19	3.64E+02	-0.112789071
WBGene00011810	-1	13	3.33E+06	-1
WBGene00011813	0.004830396	5	6.96E-01	-0.095462714
WBGene00011811	-0.54178244	5	2.42E+01	-0.493779941
WBGene00194725	-0.104120653	4	1.19E+00	-0.004010311

WBGene00011812	-0.037289319	1	5.87E-01	0.003179049
WBGene00011819	-0.196263727	6	3.31E+00	0.144387
WBGene00011814	0.351494274	8	3.60E-02	0.064327801
WBGene00011815	-0.062105066	15	4.06E+00	0.047635414
WBGene00002186	-1	14	9.77E+06	-1
WBGene00011816	-0.05341177	3	7.90E-01	0.015512201
WBGene00011817	-0.387524764	6	1.36E+01	-0.100042495
WBGene00014234	-0.075694629	4	1.01E+00	0.087517092
WBGene00014227	-0.076257205	6	1.36E+00	0.161714492
WBGene00014228	-0.186231581	3	1.48E+00	-0.1620081
WBGene00014229	-0.233181868	10	1.36E+01	-0.472270588
WBGene00014230	0.272385423	8	7.45E-02	0.150107564
WBGene00044072	0.016161871	11	9.43E-01	0.158865642
WBGene00014232	0.111627829	14	2.85E-01	0.096957947
WBGene00014233	-0.293870837	8	1.34E+01	-0.051894919
WBGene00195174	-0.307781827	3	2.62E+00	-0.363630628
WBGene00014801	-0.715054832	11	5.47E+03	-0.480641907
WBGene00003519	0.420338896	14	3.21E-03	0.073164245
WBGene00077703	-0.142730497	6	2.23E+00	0.015716829
WBGene00003482	-0.487868795	93	6.90E+20	-0.447721566
WBGene00006783	-0.151275124	11	6.86E+00	-0.314215157
WBGene00004255	0.139882459	16	1.72E-01	0.47148278
WBGene00011869	0.053481811	2	4.64E-01	-0.012528616
WBGene00011870	-0.019924031	1	5.58E-01	-0.29530562
WBGene00011874	-0.183145709	4	1.85E+00	-0.59265267
WBGene00011873	0.19032116	7	1.73E-01	0.006734121
WBGene00011867	0.79483744	37	6.77E-12	0.647305341
WBGene00011871	0.536863232	6	1.47E-02	0.679626387
WBGene00011872	1	2	6.49E-03	0.791801376
WBGene00011868	0.39373672	10	1.41E-02	0.182477369
WBGene00000833	0.482837738	17	4.49E-04	-0.272147085
WBGene00004326	0.195048523	6	1.84E-01	0.153834566
WBGene00011875	-0.049744401	4	8.78E-01	0.087641066
WBGene00303019	-0.017106744	2	6.07E-01	0.40358629
WBGene00013498	-0.597653215	30	1.50E+08	-0.272410208
WBGene00013499	-0.321493868	17	4.59E+02	-0.364608586
WBGene00001002	0.068909434	13	5.21E-01	0.134057649
WBGene00000768	-0.090762469	21	1.63E+01	-0.138247704
WBGene00010972	-0.123735066	7	2.33E+00	-0.059181459
WBGene00010973	-0.851345056	7	9.65E+02	-0.729122032
WBGene00010974	-0.500979223	16	5.96E+03	-0.788011148
WBGene00010975	-0.079174166	13	3.93E+00	-0.149843332
WBGene00000564	0.095420043	23	3.36E-01	0.055046837
WBGene00010757	-0.046169116	18	4.53E+00	-0.054976124
WBGene00010756	-0.002294774	6	7.89E-01	0.148072193
WBGene00010755	-0.292138298	13	7.16E+01	-0.488649918
WBGene00011557	-0.04359832	3	7.55E-01	-0.035116819

WBGene00011556	0.012878474	13	1.12E+00	-0.17801326
WBGene00011554	-0.35509125	7	1.58E+01	-0.44424365
WBGene00045475	-0.124783476	14	8.84E+00	-0.153519639
WBGene00006785	0.00396947	7	8.11E-01	0.054572369
WBGene00011558	0.156679075	2	3.13E-01	0.555655618
WBGene00006802	0.350870871	7	4.59E-02	0.477038502
WBGene00011562	-0.127051936	26	9.03E+01	0.058767953
WBGene00003589	-0.127412724	18	1.97E+01	-0.393487852
WBGene00044891	0.478681884	4	4.55E-02	0.13505357
WBGene00011563	0.003715382	6	7.55E-01	-0.033854502
WBGene00003225	-0.018172309	4	7.35E-01	0.003606525
WBGene00000423	0.228575802	5	1.63E-01	0.360483787
WBGene00011561	-0.353198422	5	7.11E+00	-0.003514413
WBGene00006546	-0.994060203	8	8.25E+03	-0.701923753
WBGene00006545	-0.05625137	9	1.72E+00	-0.036500501
WBGene00011560	-0.402859333	18	2.88E+03	-0.060819376
WBGene00004986	0.30568312	4	1.20E-01	0.536884597
WBGene00011559	-0.204260331	13	2.16E+01	-0.152283167
WBGene00008018	0.241490895	21	1.64E-02	0.105542872
WBGene00008019	0.020730795	18	1.35E+00	-0.262647208
WBGene00008020	-0.122106574	1	7.52E-01	-0.41162805
WBGene00194868	0.001402918	6	7.68E-01	0.105653739
WBGene00010838	0.350240435	11	1.80E-02	0.140721642
WBGene00010839	-0.070233369	13	3.48E+00	-0.073781175
WBGene00010840	0.080326806	23	4.73E-01	0.143579681
WBGene00044069	-0.170871515	10	6.88E+00	0.047764305
WBGene00010842	0.232982086	19	2.54E-02	0.321534437
WBGene00010843	0.841821889	6	1.55E-03	0.517641808
WBGene00010844	-0.002555639	17	1.90E+00	-0.128817222
WBGene00010845	0.532371698	28	2.41E-06	0.718614023
WBGene00010362	-0.28688582	5	4.62E+00	-0.105258157
WBGene00194861	-0.188424134	6	3.12E+00	-0.141688573
WBGene00010363	-0.076095386	11	2.82E+00	-0.118914284
WBGene00010364	-0.044126819	9	1.53E+00	-0.008784121
WBGene00010365	-0.00819468	9	1.06E+00	0.011990916
WBGene00008422	-0.228101038	53	2.29E+06	-0.291872513
WBGene00000231	0.455160402	29	1.40E-05	0.257424244
WBGene00008423	0.13804481	13	2.03E-01	-0.57332679
WBGene00000836	0.35338218	17	4.16E-03	0.468775398
WBGene00008426	-0.359541585	8	2.45E+01	0.194409283
WBGene00008424	-0.028681429	8	1.18E+00	0.22712206
WBGene00008425	0	5	7.18E-01	0.064836747
WBGene00009653	-0.126239007	25	7.31E+01	-0.058537777
WBGene00004283	-0.039369916	8	1.30E+00	0.193179648
WBGene00006395	0.136848396	5	2.95E-01	0.218675193
WBGene00185048	0.007108954	1	5.16E-01	0.057895049
WBGene00004798	-0.023344488	2	6.22E-01	0.376358778

WBGene00009654	0.069997978	28	6.44E-01	0.341565256
WBGene00006784	0.579369466	24	3.93E-06	0.32380536
WBGene00001993	-0.246652841	8	8.70E+00	-0.205023528
WBGene00011899	0.098244695	4	3.83E-01	-0.273890369
WBGene00043998	0.103444436	4	3.72E-01	-0.108619683
WBGene00011900	-0.654699085	30	7.75E+08	-0.681890242
WBGene00012859	-0.144255396	11	6.31E+00	-0.169773297
WBGene00004282	0.064999701	4	4.62E-01	0.001665017
WBGene00012860	0.024708101	11	8.53E-01	0.059518591
WBGene00012861	-0.068180474	6	1.28E+00	-0.060253198
WBGene00012862	-0.311851503	3	2.67E+00	-0.135967469
WBGene00012863	-0.119439662	9	3.26E+00	-0.356528053
WBGene00012864	-0.053157158	8	1.47E+00	-0.254767939
WBGene00012643	-0.036778465	5	9.11E-01	0.537557059
WBGene00012641	-0.062390905	11	2.39E+00	0.029166737
WBGene00012642	0.090149169	6	3.98E-01	0.25015134
WBGene00012644	0.009730067	12	1.09E+00	0.017039426
WBGene00012660	0.135736006	5	2.97E-01	0.597517878
WBGene00012645	-0.037158196	8	1.27E+00	-0.025476301
WBGene00012646	0.037165924	10	7.04E-01	-0.043038174
WBGene00001997	0.310356502	11	2.89E-02	0.223285124
WBGene00012647	0.261787061	7	9.59E-02	0.098192609
WBGene00012648	1	13	1.84E-07	0.617914582
WBGene00012649	0.811113763	1	4.92E-02	0.552253361
WBGene00194731	-0.002756289	2	5.75E-01	-0.004773063
WBGene00000974	-0.486526287	9	1.31E+02	-0.078008246
WBGene00012650	0.314166391	18	6.67E-03	-0.175301024
WBGene00012651	0.348993164	8	3.69E-02	-0.14240192
WBGene00012652	0.308961518	6	7.92E-02	0.188362335
WBGene00000566	0.076525319	64	7.51E-01	-0.013746952
WBGene00012654	-0.510524604	10	2.84E+02	-0.824326175
WBGene00012655	-0.025919737	7	1.04E+00	-0.001700661
WBGene00012656	-0.271818486	6	5.78E+00	-0.081986362
WBGene00001478	-0.135363693	9	3.82E+00	-0.115513597
WBGene00012657	-0.008572585	1	5.40E-01	-0.011191933
WBGene00012658	-0.138589572	27	1.48E+02	0.09243192
WBGene00012659	-0.194950266	19	8.61E+01	0.029928544
WBGene00012361	0.020136115	7	7.09E-01	0.289028854
WBGene00012363	-0.004634309	11	1.21E+00	0.102836551
WBGene00012362	0.008292261	11	1.04E+00	0.380483667
WBGene00012360	-0.181460438	24	2.21E+02	-0.294707261
WBGene00012359	0.234826797	11	7.07E-02	0.539976626
WBGene00010479	0.475549928	3	6.55E-02	0.161447457
WBGene00006536	0.900992325	12	1.27E-05	-0.143040365
WBGene00004361	0.649202671	15	6.99E-05	0.537745154
WBGene00004302	1	6	1.07E-04	0.724767951
WBGene00010478	1	17	8.67E-10	0.400897744

WBGene00010477	0.347478164	9	2.96E-02	0.071442539
WBGene00001996	0.040434451	11	7.08E-01	0.175559762
WBGene00010476	0.338746323	10	2.58E-02	-0.689029164
WBGene00010481	0.756493585	6	2.90E-03	-0.326432018
WBGene00010480	0.262517276	16	2.32E-02	-0.013372162
WBGene00001087	-0.157745124	34	1.12E+03	-0.121579042
WBGene00004233	-0.24484954	24	9.76E+02	-0.261966239
WBGene00012661	-0.742713257	7	3.92E+02	-0.390358379
WBGene00010772	0.027305215	11	8.27E-01	-0.151337992
WBGene00002219	0.057315878	24	8.16E-01	-0.046555577
WBGene00004736	0.625716788	39	9.72E-10	-0.492718408
WBGene00011269	-0.068043344	12	2.94E+00	-0.07895247
WBGene00011268	0.005317214	12	1.15E+00	-0.00237718
WBGene00011267	-0.00540645	3	6.30E-01	-0.002550468
WBGene00012663	0.001352872	8	8.94E-01	0.050254133
WBGene00012662	0.480283128	6	2.23E-02	0.310150158
WBGene00003898	0.05156173	21	8.50E-01	0.151017323
WBGene00000475	0.813238346	5	3.65E-03	0.244573923
WBGene00008078	-0.023905428	12	1.67E+00	0.129976993
WBGene00008079	-0.097463304	9	2.61E+00	-0.143835074
WBGene00008080	-0.26722067	9	1.44E+01	-0.358949777
WBGene00008081	-0.016309518	30	7.97E+00	-0.078583907
WBGene00043996	0.064209607	7	4.92E-01	0.775323186
WBGene00008082	0.016090221	15	1.22E+00	-0.157849197
WBGene00006843	0.108949278	9	3.27E-01	0.167689058
WBGene00000853	-0.017999606	9	1.17E+00	-0.069224345
WBGene00006873	-0.180595547	13	1.57E+01	-0.230495362
WBGene00010922	-0.003949257	2	5.77E-01	-0.004157099
WBGene00043057	0.240809288	6	1.31E-01	0.158879525
WBGene00010923	0.027893063	24	1.63E+00	-0.079310232
WBGene00013132	-0.188653858	11	1.07E+01	-0.347595447
WBGene00006982	-0.039387207	4	8.28E-01	-0.07186472
WBGene00012271	-0.158102139	24	1.28E+02	-0.255990924
WBGene00012272	-0.077855811	92	4.27E+05	0.057029252
WBGene00000667	-0.396521537	11	1.25E+02	-0.400692581
WBGene00000668	0.318775733	9	3.96E-02	-0.019968747
WBGene00000669	-0.512050154	10	2.89E+02	0.6132569
WBGene00012962	2	12	1.99E-10	2
WBGene00012965	-0.005006863	1	5.34E-01	0.020649582
WBGene00012964	0.336849369	4	1.01E-01	0.197745681
WBGene00012966	0.277255065	6	1.00E-01	0.112693083
WBGene00012967	-0.049769525	22	7.88E+00	-0.077110349
WBGene00012968	-0.329444339	2	2.00E+00	-0.31661582
WBGene00012969	-0.363178648	8	2.53E+01	-0.339589843
WBGene00194684	-0.001424734	4	6.70E-01	-0.061734523
WBGene00012970	0.003234373	9	9.47E-01	-0.002136977
WBGene00012973	0.100657748	34	2.61E-01	0.241270503

WBGene00012972	1	22	1.79E-10	0.988364381
WBGene00012356	0.409431094	15	2.82E-03	0.458812078
WBGene00006287	-0.08729195	4	1.08E+00	-0.000312919
WBGene00006273	-0.002789542	2	5.75E-01	-0.115259502
WBGene00012357	-0.404955418	5	9.95E+00	-0.760793141
WBGene00012358	0.034082946	6	6.03E-01	-0.021373921
WBGene00001815	0.054298866	25	9.02E-01	-0.091666109
WBGene00164986	0.526707361	4	3.48E-02	-0.079262616
WBGene00012976	0.275843574	14	2.62E-02	-0.522153205
WBGene00012977	0.06346091	12	5.50E-01	0.094519086
WBGene00219394	-0.495799549	4	1.07E+01	0.367011569
WBGene00004010	0.100961612	9	3.54E-01	0.146492209
WBGene00012923	0.070797171	4	4.47E-01	0.150565836
WBGene00012922	-0.042579037	16	3.37E+00	-0.34067088
WBGene00012936	-0.18520875	38	7.22E+03	-0.262326448
WBGene00000519	-0.07953255	20	1.12E+01	-0.012165489
WBGene00012937	-0.233511016	6	4.35E+00	-0.016246518
WBGene00006604	0.3500928	77	3.31E-09	0.258810871
WBGene00006553	-0.142811424	5	1.81E+00	-0.194894167
WBGene00012925	-0.35048979	15	3.47E+02	-0.437631313
WBGene00012926	-0.00480989	5	7.40E-01	-0.003148648
WBGene00006556	-0.386464326	6	1.35E+01	-0.050012926
WBGene00001246	-0.093258748	6	1.54E+00	0.048746514
WBGene00206461	-0.004004004	4	6.79E-01	0.117976618
WBGene00012927	-0.102804894	3	9.97E-01	-0.199352582
WBGene00012928	-0.262973003	6	5.41E+00	-0.3498602
WBGene00012929	0.028905621	12	8.54E-01	0.043947545
WBGene00012938	-0.050679958	4	8.82E-01	0.127643085
WBGene00012930	-0.177011187	38	5.38E+03	-0.191125651
WBGene00012931	0	2	5.69E-01	0
WBGene00012932	0	4	6.64E-01	0
WBGene00012934	-0.011368497	27	5.32E+00	-0.090557555
WBGene00012933	-0.048023427	20	5.96E+00	-0.222046002
WBGene00004873	0.04131704	29	1.45E+00	0.001871072
WBGene00004284	-0.026202443	7	1.04E+00	0.071532093
WBGene00006563	-0.000306863	7	8.40E-01	0.001396189
WBGene00012935	0	8	9.06E-01	0
WBGene00012126	0.481518074	49	5.82E-09	0.287177801
WBGene00012125	0.819582842	37	2.84E-12	0.397613967
WBGene00003975	0.223779283	5	1.68E-01	0.308863732
WBGene00012127	0.391260289	9	1.91E-02	0.037366374
WBGene00012124	0.825833599	24	1.21E-08	0.868750003
WBGene00012123	0.24307564	6	1.29E-01	0.465556058
WBGene00006533	0.780333356	10	2.05E-04	1
WBGene00001077	0.703702363	13	9.08E-05	0.385259706
WBGene00012939	0.067542742	13	5.31E-01	0.027342039
WBGene00003759	0.643740722	9	1.50E-03	0.738489516

WBGene00012940	0	6	7.76E-01	-0.04218804
WBGene00185055	-0.005421533	2	5.81E-01	-0.016320709
WBGene00012941	-0.008199673	10	1.16E+00	-0.094257341
WBGene00006683	0.311518003	36	1.89E-04	0.077030663
WBGene00012942	-0.25986222	4	2.85E+00	0.122812556
WBGene00004735	-0.024842237	22	4.59E+00	-0.060127494
WBGene00023404	-0.20847602	18	8.55E+01	-0.116248632
WBGene00012943	0.154143123	27	7.03E-02	-0.191015086
WBGene00013421	-0.402813776	6	1.52E+01	-0.222242252
WBGene00013422	-0.058750381	6	1.20E+00	-0.063783813
WBGene00013447	0.05120817	32	1.21E+00	-0.037865159
WBGene00013448	0.099570433	19	3.21E-01	-0.110651445
WBGene00006573	0.001073251	3	6.12E-01	-0.006928263
WBGene00013446	0.002030636	3	6.09E-01	-0.000973529
WBGene00004960	-0.076392432	10	2.44E+00	-0.188452096
WBGene00013445	-0.095683588	9	2.56E+00	-0.187698825
WBGene00013443	0.000127697	15	1.55E+00	-0.017006864
WBGene00013442	-0.000454055	6	7.78E-01	0.000484136
WBGene00013441	-0.008262325	23	3.49E+00	0.075029857
WBGene00013440	-0.380610955	76	6.25E+13	-0.372527985
WBGene00013439	-0.028520146	12	1.78E+00	-0.034832003
WBGene00013438	-0.478017949	11	3.30E+02	-0.400616201
WBGene00013437	0.043089172	8	6.10E-01	0.009412354
WBGene00013436	0.222094829	7	1.33E-01	0.16138127
WBGene00013435	0.046063522	8	5.94E-01	0.041668517
WBGene00013434	-0.071967848	8	1.75E+00	-0.003909596
WBGene00013433	0.027116187	5	6.02E-01	0.172245384
WBGene00013432	0.135903656	4	3.10E-01	0.082510647
WBGene00013431	0.013167197	22	2.01E+00	-0.038916801
WBGene00013429	0.002897709	10	1.02E+00	-0.041129535
WBGene00013427	0.021197667	1	4.95E-01	-0.008712329
WBGene00219421	-0.109904401	6	1.75E+00	-0.247394595
WBGene00194864	-0.087237527	5	1.26E+00	-0.245515756
WBGene00013424	0.094273792	11	3.74E-01	-0.080374946
WBGene00013425	0.025323153	16	1.11E+00	-0.000144376
WBGene00001633	-0.191887496	10	8.66E+00	-0.250512655
WBGene00013426	0	3	6.15E-01	-0.002405016
WBGene00006552	0	4	6.64E-01	0
WBGene00012760	-0.175960998	2	1.11E+00	0.260042962
WBGene00012750	-0.13444129	14	1.02E+01	-0.26489181
WBGene00000793	0.126116009	71	3.13E-02	0.064613993
WBGene00194866	0.136874997	2	3.37E-01	0
WBGene00012753	-0.608009811	9	4.45E+02	-0.335149356
WBGene00012754	-0.518092438	5	2.08E+01	-0.614566547
WBGene00004165	-0.229829753	8	7.45E+00	-0.672799034
WBGene00000670	-0.498027913	9	1.47E+02	-0.834939465
WBGene00000671	-0.068609845	7	1.48E+00	0.107123858

WBGene00012755	-0.07613471	4	1.02E+00	-0.001652453
WBGene00012756	0.048109912	8	5.83E-01	0.065043404
WBGene00001235	0.100836067	4	3.78E-01	0.475291919
WBGene00012757	-0.567952986	5	2.87E+01	-0.592078122
WBGene00270321	-0.469097767	10	1.81E+02	-0.277963415
WBGene00012758	-0.001725381	2	5.73E-01	-0.002415479
WBGene00012761	0.12286583	5	3.23E-01	-0.271198016
WBGene00194733	0.403487567	7	2.97E-02	-0.290046
WBGene00012759	0.127914347	7	2.91E-01	0.096163491
WBGene00003417	-0.008336126	6	8.25E-01	-0.007144746
WBGene00007703	0.003304656	32	5.26E+00	0.049234447
WBGene00007021	0	4	6.64E-01	0
WBGene00007704	-0.008526753	3	6.40E-01	0.027424852
WBGene00007702	-0.168612168	3	1.36E+00	0.481774629
WBGene00007701	0.051188125	5	5.15E-01	-0.042027196
WBGene00006557	0.014162515	5	6.55E-01	0.099370293
WBGene00007699	-0.000204259	11	1.15E+00	0.00113931
WBGene00007700	0.330099675	11	2.29E-02	0.30855972
WBGene00006690	0.183321753	19	6.53E-02	0.488714072
WBGene00044232	0.142799094	12	2.00E-01	0.1937802
WBGene00194727	0.074420521	2	4.28E-01	-0.198440172
WBGene00045211	0	1	5.26E-01	0
WBGene00007682	0	2	5.69E-01	0
WBGene00007679	-0.070100963	9	1.98E+00	-0.008514869
WBGene00007680	-0.270897968	8	1.09E+01	-0.36980226
WBGene00007681	1	7	1.79E-04	0.825002644
WBGene00004705	0.132024925	24	1.41E-01	-0.091823762
WBGene00003826	0.090763408	37	3.56E-01	0.037707266
WBGene00003234	0.194675683	11	1.14E-01	-0.252077396
WBGene00013225	0.040094051	39	2.28E+00	-0.003486291
WBGene00006396	0.20558103	12	8.99E-02	0.121493348
WBGene00013227	-0.423060822	31	1.54E+06	-0.187915894
WBGene00013230	-0.013032814	3	6.54E-01	-0.044006347
WBGene00013226	-0.554180399	28	1.36E+07	-0.334461279
WBGene00269438	-0.085755804	3	9.20E-01	-0.003990361
WBGene00013231	0.037725513	9	6.69E-01	-0.045109439
WBGene00013232	-0.023645882	13	1.84E+00	-0.028301717
WBGene00013233	-0.038531357	4	8.24E-01	-0.024732508
WBGene00013234	-0.504402668	5	1.90E+01	-0.193114127
WBGene00013235	-0.093150801	24	2.78E+01	-0.232131586
WBGene00013237	0.156734975	4	2.76E-01	-0.09385064
WBGene00003802	0.441156173	6	2.98E-02	0.298170581
WBGene00013236	0.774625291	5	4.69E-03	0.309384121
WBGene00000369	0.2817344	15	2.02E-02	-0.433315152
WBGene00013238	0.478890091	2	9.15E-02	-0.222127575
WBGene00013239	0.047069899	6	5.48E-01	0.027773133
WBGene00003594	0.100731585	10	3.51E-01	0.012177827

WBGene00044233	-0.115341712	11	4.48E+00	-0.006614876
WBGene00013228	0.43789393	29	2.26E-05	0.303994788
WBGene00006596	0	11	1.14E+00	0.005482705
WBGene00013240	0.031342682	17	1.06E+00	-0.09333128
WBGene00013241	0.011728467	5	6.65E-01	-0.000777796
WBGene00013242	-0.074532313	23	1.56E+01	0.094204321
WBGene00013243	-0.005622687	43	1.71E+01	-0.005166218
WBGene00006937	-0.01719703	17	2.45E+00	0.060239639
WBGene00013244	-0.216165391	16	5.72E+01	-0.125341079
WBGene00000273	-0.253587046	18	1.94E+02	-0.15971035
WBGene00043997	-0.007978115	5	7.56E-01	-0.038187762
WBGene00013579	-0.111272177	5	1.48E+00	-0.058339301
WBGene00013580	-0.067587754	44	2.41E+02	-0.069964919
WBGene00013581	-0.227418051	3	1.79E+00	-0.123086057
WBGene00000201	0.002206074	6	7.63E-01	-0.00915694
WBGene00006993	-0.009747041	41	1.70E+01	-0.001795419
WBGene00004024	-0.029354552	13	1.99E+00	-0.20915904
WBGene00003779	0.347517081	22	1.44E-03	0.244400552
WBGene00013540	-0.648990892	21	1.78E+06	-0.296953783
WBGene00013541	-0.289288259	17	2.64E+02	-0.438692363
WBGene00013542	0.088312882	6	4.04E-01	0.009953727
WBGene00013543	0.067885421	11	5.11E-01	-0.027483968
WBGene00013544	0.043757811	15	7.93E-01	-0.058382303
WBGene00013545	0.010888787	23	2.27E+00	-0.050998017
WBGene00001636	-0.068585305	19	7.81E+00	-0.108052289
WBGene00013547	0.016752387	4	6.05E-01	-0.118357979
WBGene00013548	0	1	5.26E-01	0
WBGene00003892	-0.058611511	20	7.36E+00	0.015481011
WBGene00194855	0	2	5.69E-01	0
WBGene00013549	-0.029615634	81	2.35E+03	-0.172709403
WBGene00013550	-0.197459972	11	1.19E+01	-0.147648087
WBGene00013551	-0.107624036	7	2.04E+00	0.015835124
WBGene00013552	-0.173780841	6	2.80E+00	-0.068044891
WBGene00013553	-0.659901145	2	7.05E+00	-0.210277058
WBGene00013554	-0.009082279	15	1.79E+00	0.237980566
WBGene00001724	-0.000635278	3	6.16E-01	0.006785169
WBGene00013555	-0.053977799	5	1.02E+00	-0.012773363
WBGene00006571	-0.043170814	34	2.75E+01	-0.218915414
WBGene00013556	2	3	6.96E-05	0.92140272
WBGene00013557	0.037163261	42	2.91E+00	-0.085895669
WBGene00013558	-0.098016769	17	9.82E+00	-0.097152484
WBGene00003414	-0.050208231	41	8.13E+01	-0.065796262
WBGene00004172	-0.129339235	10	4.36E+00	-0.087926905
WBGene00023483	-0.042671016	5	9.47E-01	-0.241254937
WBGene00013565	-0.499923721	3	6.47E+00	-0.408983321
WBGene00013559	-0.04585049	10	1.75E+00	-0.032143734
WBGene00013560	-0.000617694	10	1.06E+00	0.009230084

WBGene00303096	0	1	5.26E-01	0
WBGene00006986	-0.016315233	25	5.03E+00	-0.015827684
WBGene00004085	0.011298001	13	1.14E+00	0.123725556
WBGene00013561	0.021379126	8	7.44E-01	0.170166015
WBGene00013562	-0.258666948	19	2.89E+02	-0.187248984
WBGene00013564	0.081702112	2	4.16E-01	0.072919676
WBGene00013563	-0.121652185	14	8.44E+00	-0.174750937
WBGene00001946	0.394705889	6	4.20E-02	0.526218029
WBGene00004506	0.163954077	9	1.88E-01	0.087059216
WBGene00013029	0.087307205	2	4.08E-01	-0.127402
WBGene00004086	-0.019915176	12	1.59E+00	0.100774296
WBGene00013030	-0.446868615	12	3.67E+02	-0.069926599
WBGene00194981	-0.550486702	2	4.65E+00	-0.766529698
WBGene00013033	0.334946393	9	3.36E-02	0.478691815
WBGene00013034	0.165794343	30	4.20E-02	0.223672453
WBGene00004027	0.118402465	10	2.89E-01	-0.00598719
WBGene00004919	0.931087486	4	3.61E-03	-0.101521315
WBGene00013035	-0.00029791	7	8.40E-01	-0.009095073
WBGene00013045	-0.198405185	2	1.21E+00	-0.175690381
WBGene00013036	-0.252964363	28	3.97E+03	-0.272316729
WBGene00013037	-0.188221461	6	3.11E+00	-0.152043519
WBGene00013038	-0.135317908	26	1.11E+02	-0.123140764
WBGene00013039	0.004565008	7	8.07E-01	0.153058406
WBGene00013040	-0.035322639	19	4.15E+00	0.08379164
WBGene00013041	-0.000635836	4	6.67E-01	0
WBGene00045239	-0.043028965	13	2.40E+00	0.123295631
WBGene00013042	0.051428917	25	9.67E-01	0.145120855
WBGene00013043	-0.062590231	10	2.10E+00	-0.317904246
WBGene00013044	-0.206726043	16	4.91E+01	-0.226821778
WBGene00013727	-0.212059735	6	3.71E+00	-0.009574013
WBGene00013728	-0.293998714	3	2.45E+00	-0.112270752
WBGene00013729	-0.366841281	15	4.46E+02	-0.394289807
WBGene00013730	-0.037222238	66	7.84E+02	-0.057265485
WBGene00013744	-0.155616393	5	1.97E+00	-0.016342453
WBGene00013732	-0.032286106	94	1.14E+04	-0.08792666
WBGene00013734	0.437709548	7	2.24E-02	0.177990148
WBGene00007030	0.567869838	21	1.86E-05	0.499224048
WBGene00013735	0.187052081	34	1.59E-02	-0.078318278
WBGene00013736	0.331710714	5	8.33E-02	0.061075869
WBGene00004161	-0.070459117	26	2.16E+01	0.035046359
WBGene00013737	-0.045915966	22	7.25E+00	-0.149536818
WBGene00006389	0.016291973	5	6.46E-01	0.01426756
WBGene00013738	0.031003144	16	1.02E+00	0.045462685
WBGene00004700	0.630468371	13	2.46E-04	0.47305534
WBGene00013739	-0.025307298	18	3.11E+00	-0.073384416
WBGene00013742	-0.002355486	21	2.60E+00	0
WBGene00013740	0	2	5.69E-01	0

WBGene00007027	0.10693794	63	1.26E-01	0.036392922
WBGene00013741	-0.809100015	11	1.67E+04	-2
WBGene00013911	-0.406821589	13	3.42E+02	-0.838824141
WBGene00013915	-0.004603711	4	6.82E-01	0.00090761
WBGene00005757	-0.235187217	6	4.41E+00	-0.012494707
WBGene00005756	0	9	9.79E-01	0.021761225
WBGene00013912	-0.148053398	9	4.34E+00	-0.167787584
WBGene00013913	0	3	6.15E-01	-0.001172382
WBGene00001512	0.093487937	12	3.75E-01	0.06475726
WBGene00013914	0.097962104	24	3.15E-01	0.039888359
WBGene00007209	0.185235437	11	1.27E-01	0.058590732
WBGene00007210	0.032984384	6	6.08E-01	0.05397563
WBGene00044127	-0.160359362	4	1.63E+00	-0.134079192
WBGene00007211	0.025257709	9	7.59E-01	0.022030015
WBGene00007212	-0.228387513	10	1.29E+01	-0.009127375
WBGene00000203	-0.065127702	7	1.44E+00	0.220655709
WBGene00012560	-0.040528867	5	9.34E-01	-0.056822681
WBGene00012544	0.515099231	19	1.20E-04	0.607628222
WBGene00012545	-0.139649329	19	3.01E+01	-0.107184634
WBGene00012546	0.253403323	7	1.03E-01	-0.421955973
WBGene00012547	-0.060329572	5	1.06E+00	-0.396622502
WBGene00012561	-0.06669875	4	9.65E-01	-0.013487823
WBGene00012548	0	1	5.26E-01	0
WBGene00012549	-0.267383915	11	2.72E+01	-0.64373133
WBGene00003406	0.157864132	17	1.20E-01	-0.036648746
WBGene00012550	-0.001456995	3	6.19E-01	-0.000214763
WBGene00012551	0.088239756	6	4.04E-01	0.280457233
WBGene00012552	-0.302698834	13	8.27E+01	-0.061985368
WBGene00006804	-0.023535027	38	2.16E+01	0.046624628
WBGene00303086	-0.031130942	1	5.77E-01	0.004559894
WBGene00012553	0.237082434	4	1.76E-01	0.360900804
WBGene00001457	-0.368645836	13	2.03E+02	-0.556698702
WBGene00012554	-0.314273629	12	6.77E+01	-0.147884093
WBGene00012555	0.002327481	10	1.03E+00	0.011730413
WBGene00012556	0.025821665	3	5.44E-01	0.060750312
WBGene00012558	0.068146666	16	5.54E-01	0.401560334
WBGene00012557	0.195479399	6	1.83E-01	0.68807571
WBGene00012559	0.061112362	8	5.17E-01	0.016172495
WBGene00006762	-0.118932488	10	3.89E+00	-0.056369705
WBGene00012711	-0.068199061	5	1.12E+00	0.000734873
WBGene00012712	-0.183789326	31	1.26E+03	-0.104244486
WBGene00012713	-0.085535389	9	2.31E+00	-0.045829575
WBGene00014176	0.3482308	8	3.71E-02	0.455215989
WBGene00006728	0.79004768	5	4.25E-03	1
WBGene00014177	0.554817261	7	8.48E-03	0.734533525
WBGene00014178	-0.268119902	12	3.76E+01	-0.205581906
WBGene00014179	-0.602611684	29	9.34E+07	-0.713338212

WBGene00271703	-0.06245481	3	8.25E-01	-0.006960012
WBGene00000672	-0.103194208	8	2.33E+00	-0.319470711
WBGene00014181	-0.06950175	8	1.71E+00	-0.059166098
WBGene00164985	-0.069700012	8	1.72E+00	-0.083799824
WBGene00004906	-0.167029863	21	7.97E+01	0.062197127
WBGene00000673	-0.053237633	4	8.95E-01	0.068196855
WBGene00008809	-0.03329727	9	1.37E+00	-0.13189506
WBGene00008810	-0.121668475	8	2.76E+00	-0.158909314
WBGene00008811	-0.305949594	6	7.43E+00	-0.447334079
WBGene00206390	-0.090575549	3	9.42E-01	0.009773426
WBGene00008812	-0.145954854	18	2.76E+01	-0.202070175
WBGene00010073	0.023169249	16	1.15E+00	0.066364247
WBGene00010072	-0.819330701	31	2.00E+11	-0.666188207
WBGene00012717	0.185987944	19	6.21E-02	0.334489568
WBGene00004164	-0.090089156	23	2.21E+01	-0.065206724
WBGene00012721	-0.20250365	7	4.48E+00	-0.143317944
WBGene00012718	0.054496402	23	8.47E-01	0.039942884
WBGene00006985	0.339605168	24	1.09E-03	0.372790941
WBGene00000267	-0.025808172	9	1.27E+00	-0.086034656
WBGene00012719	-0.007228971	12	1.35E+00	0.021822223
WBGene00012714	0.152191947	22	9.91E-02	0.05440954
WBGene00012715	0.119669739	11	2.77E-01	0.167557151
WBGene00012716	0.177568273	11	1.39E-01	-0.097187248
WBGene00001630	-0.045540292	49	1.75E+02	0.108325333
WBGene00012720	-0.383340823	10	7.05E+01	-0.016099266
WBGene00006629	-0.171190426	6	2.75E+00	0.099187338
WBGene00012796	0.991022783	16	1.60E-07	1
WBGene00012798	-0.128773401	3	1.13E+00	-0.1139321
WBGene00012799	-0.002581668	3	6.22E-01	0.022457897
WBGene00010138	-0.010607999	17	2.18E+00	-0.011195512
WBGene00185001	-0.022597101	8	1.11E+00	0.033302591
WBGene00010139	0.219348038	17	4.18E-02	0.000237175
WBGene00010140	-0.010462741	6	8.38E-01	0.01410442
WBGene00010141	-0.120308058	6	1.89E+00	0.125735703
WBGene00000774	0.414992678	10	1.12E-02	0.08160389
WBGene00006798	0.3787665	15	4.53E-03	0.63170058
WBGene00012802	0.184686082	25	3.77E-02	0.332307965
WBGene00010142	0.809782709	5	3.73E-03	0.901611788
WBGene00003804	0.500465422	16	4.79E-04	0.236397396
WBGene00012803	-0.035417185	15	2.69E+00	0.041104025
WBGene00002229	0.2568257	25	6.51E-03	-0.307706179
WBGene00012804	0.050968954	10	6.05E-01	0.103436877
WBGene00012807	0.022817324	7	6.94E-01	-0.274093345
WBGene00012806	0.333820402	19	3.75E-03	-0.243699199
WBGene00194870	-0.610237016	6	7.03E+01	-0.92364574
WBGene00009949	0.146526359	6	2.63E-01	-0.016707631
WBGene00009950	-0.913152631	8	3.93E+03	-0.65634513

WBGene00009951	-0.528611582	11	6.00E+02	-0.237530794
WBGene00003829	0.30695474	6	8.03E-02	0.240428777
WBGene00001092	0.682656346	3	2.47E-02	0.480642656
WBGene00002059	0.00276076	6	7.60E-01	-0.451343227
WBGene00009952	0.372244993	7	3.84E-02	-0.059568243
WBGene00003478	0.190641892	28	2.47E-02	0.326510186
WBGene00009953	-0.210330275	13	2.35E+01	-0.140349643
WBGene00044228	0.022476786	6	6.57E-01	0.016372987
WBGene00045482	0.014371838	6	6.97E-01	0.017824984
WBGene00003047	0.076571619	16	4.83E-01	0.408489855
WBGene00185005	-0.381768515	5	8.56E+00	-1
WBGene00011401	-0.026572883	10	1.41E+00	-0.547981808
WBGene00011400	0.115993087	10	2.97E-01	0.152319085
WBGene00011399	0.081052611	5	4.24E-01	-0.431147903
WBGene00001035	-0.305684156	8	1.49E+01	-0.267261958
WBGene00011398	0.07837319	4	4.28E-01	0.402614553
WBGene00008714	-0.330514737	13	1.21E+02	-0.223843326
WBGene00044399	-0.430150457	3	4.66E+00	-0.11422222
WBGene00008716	0	2	5.69E-01	-0.004321591
WBGene00008717	-0.277148196	1	1.18E+00	0.178406629
WBGene00003249	-1	5	1.53E+03	0.490514057
WBGene00008719	0.193963903	6	1.85E-01	-0.574496564
WBGene00003520	0.124984105	12	2.51E-01	0.128004418
WBGene00009730	-0.012920692	46	3.01E+01	0.061302717
WBGene00009731	-0.283324508	7	8.75E+00	0.150969447
WBGene00009732	0.1270118	3	3.38E-01	0.097886535
WBGene00000255	0.029235683	3	5.36E-01	0.023023397
WBGene00006612	-0.477435311	22	8.34E+04	-0.915704193
WBGene00009733	0.070191821	4	4.48E-01	-0.366816507
WBGene00009734	-0.066465233	2	7.33E-01	-0.149770931
WBGene00009735	-0.100137469	5	1.38E+00	-0.188150257
WBGene00009736	-0.08000392	8	1.89E+00	0.152249041
WBGene00000834	0.0309944	25	1.59E+00	0.096350318
WBGene00012097	0.636333299	16	5.22E-05	0.118525621
WBGene00006509	0.787309752	7	1.24E-03	0.094314434
WBGene00012094	0.065995475	4	4.59E-01	-0.448430661
WBGene00006439	2	7	4.91E-07	0.878276115
WBGene00000407	1	7	6.63E-05	0.931849736
WBGene00002185	0.25897653	23	8.40E-03	0.384474891
WBGene00012095	-0.003676188	12	1.29E+00	-0.118472579
WBGene00012096	-0.091926414	6	1.53E+00	-0.437576733
WBGene00012099	0.390256123	7	3.31E-02	0.410223824
WBGene00006691	0.569764101	12	8.68E-04	0.502785731
WBGene00012108	-0.437099126	5	1.23E+01	-0.228592666
WBGene00012112	-0.259403617	7	7.18E+00	-0.071906143
WBGene00012111	-0.159095918	4	1.62E+00	-0.123362506
WBGene00194852	-0.195547688	9	7.00E+00	-0.481024884

WBGene00012110	-0.694413036	11	4.28E+03	0.018760304
WBGene00012109	-0.209428275	21	1.92E+02	-0.210334411
WBGene00003373	-0.143653569	13	9.46E+00	-0.18856058
WBGene00004075	0.107668929	31	2.20E-01	-0.034334441
WBGene00013574	0.191262957	33	1.52E-02	0.446639215
WBGene00013575	-0.130005971	13	7.85E+00	-0.112481073
WBGene00013576	0.539555123	6	1.44E-02	1
WBGene00013577	0.276398628	5	1.19E-01	0.511889236
WBGene00013578	-0.129130813	13	7.76E+00	0.061185195
WBGene00011475	0.75353986	7	1.64E-03	0.342437621
WBGene00011474	2	7	3.03E-06	0.834038148
WBGene00011476	-0.129323778	8	2.97E+00	0.02013552
WBGene00003887	-0.033079124	12	1.88E+00	-0.194990317
WBGene00011478	-0.170166295	10	6.82E+00	-0.212190872
WBGene00000067	-0.248837965	15	7.23E+01	-0.683120119
WBGene00012017	0.093736434	21	3.54E-01	0.137662556
WBGene00011735	0.130782564	36	9.09E-02	-0.514547441
WBGene00011736	0.074376894	21	5.29E-01	-0.561105873
WBGene00011734	0.244467732	4	1.69E-01	-0.196948812
WBGene00006391	0.066247808	4	4.58E-01	0.03928886
WBGene00011733	0.039579607	3	5.10E-01	0.074677395
WBGene00011732	0.593223488	8	3.93E-03	0.943341314
WBGene00011731	0.311548082	6	7.77E-02	0.410742428
WBGene00023450	-0.331035583	2	2.01E+00	0.153957531
WBGene00011730	-0.497277664	7	5.14E+01	-0.356077973
WBGene00011729	0.46882894	53	2.66E-09	0.530687929
WBGene00001458	-0.063437577	10	2.12E+00	-0.124116526
WBGene00000179	-0.299198033	5	5.01E+00	-0.549600427
WBGene00001118	-0.24008281	27	2.10E+03	-0.263172514
WBGene00004796	-0.904048659	9	8.75E+03	-0.801866209
WBGene00000837	0.233792658	14	4.83E-02	-0.0173325
WBGene00000878	-0.205061474	8	5.94E+00	-0.737631479
WBGene00003048	0.302563816	51	1.43E-05	0.146222187
WBGene00012306	-0.055285402	25	1.30E+01	-0.181509423
WBGene00012307	-0.525939876	4	1.26E+01	-0.336034114
WBGene00010661	-0.281153409	14	8.57E+01	-0.447285472
WBGene00010662	0.181131887	6	2.04E-01	-0.799527999
WBGene00023451	-0.021259538	5	8.24E-01	-0.009885717
WBGene00010663	-0.167989825	11	8.36E+00	0.013092829
WBGene00010664	0.340583195	13	1.28E-02	0.182524953
WBGene00010665	0.44514076	20	3.29E-04	0.129419579
WBGene00000875	0.14085791	12	2.05E-01	0.0682732
WBGene00003967	0.495283664	8	9.64E-03	0.420236469
WBGene00007025	0.07502046	18	5.06E-01	0.31629361
WBGene00007065	-2	5	2.73E+04	-1
WBGene00021406	0	36	7.93E+00	0
WBGene00021407	0	12	1.23E+00	0

WBGene00021408	0	8	9.06E-01	0
WBGene00021405	0	5	7.18E-01	0
WBGene00021409	0	5	7.18E-01	0
WBGene00021404	0	8	9.06E-01	0
WBGene00001492	0.013005283	42	7.55E+00	-0.014907249
WBGene00021403	0	12	1.23E+00	0
WBGene00235257	0	1	5.26E-01	0
WBGene00235258	-0.060513245	3	8.17E-01	0.03744248
WBGene00235260	-0.183275925	16	3.35E+01	-0.216413321
WBGene00235261	0.075629317	2	4.26E-01	0.336098946
WBGene00235262	0.027513081	1	4.86E-01	-0.014713799
WBGene00015246	0.270719601	6	1.05E-01	-0.054770463
WBGene00006599	0.379239717	31	6.90E-05	0.434319874
WBGene00015247	0.251529162	11	5.80E-02	0.31873535
WBGene00017927	0.013402417	1	5.06E-01	0.086063159
WBGene00017928	-0.239009073	6	4.53E+00	0.434666864
WBGene00017929	0.185850733	14	9.69E-02	0.402220671
WBGene00017926	-0.32951123	5	6.10E+00	-0.43355917
WBGene00000897	0.387098395	30	7.14E-05	0.368992444
WBGene00000674	0.559122552	31	3.30E-07	0.31917397
WBGene00021400	-0.249690479	4	2.69E+00	-0.071713986
WBGene00021398	-0.948473017	5	3.39E+02	-0.817433209
WBGene00219750	0.017735955	5	6.40E-01	-0.069617457
WBGene00021397	-0.069598635	7	1.49E+00	-0.114295764
WBGene00021396	-0.004220138	11	1.20E+00	-0.162204433
WBGene00006561	0.025027465	8	7.20E-01	0.107339053
WBGene00021395	0.086876418	27	4.08E-01	-0.132334215
WBGene00021402	-0.486173056	9	1.31E+02	0.02834877
WBGene00000815	0.011274651	18	1.60E+00	0.037569465
WBGene00044736	0	2	5.69E-01	0
WBGene00195063	0	3	6.15E-01	0
WBGene00021394	-0.037785681	13	2.23E+00	0.020257568
WBGene00021401	-0.116376928	13	6.52E+00	-0.356446358
WBGene00019821	-0.020475707	23	4.60E+00	-0.03412541
WBGene00019822	-0.018123709	15	2.06E+00	0.024268609
WBGene00019823	0.457092825	11	5.08E-03	0.194687064
WBGene00019820	-0.417617213	20	9.27E+03	-0.615263903
WBGene00019819	-0.406657068	35	5.53E+06	-0.563714621
WBGene00001728	-0.179458808	2	1.13E+00	0.067873795
WBGene00019824	-0.070350571	9	1.99E+00	-0.220368003
WBGene00019825	-0.339012098	4	4.44E+00	-0.061000565
WBGene00001071	-0.064274143	6	1.25E+00	-0.181268285
WBGene00020647	0.018652638	9	8.11E-01	0.22728382
WBGene00003932	0.587164471	9	2.66E-03	0.71755712
WBGene00020651	0.039026375	5	5.57E-01	-0.026295633
WBGene00020650	-0.233895587	8	7.74E+00	0.161430477
WBGene00005487	-0.916629692	4	1.13E+02	-0.20258417

WBGene00020649	-0.485337192	24	2.75E+05	-0.621357895
WBGene00206487	0.209248439	13	7.69E-02	0.325694651
WBGene00045177	-0.1351026	2	9.52E-01	-0.068815795
WBGene00020648	-0.434077784	9	7.73E+01	-0.697765146
WBGene00019298	-0.236403094	19	1.89E+02	-0.102903496
WBGene00019300	0.165893232	13	1.39E-01	0.100936993
WBGene00019299	0.246699519	6	1.25E-01	-0.203854888
WBGene00001099	-0.03149036	21	4.77E+00	0.270356698
WBGene00001735	0.395269481	4	7.26E-02	0.139062854
WBGene00017578	0.034138847	18	1.06E+00	-0.080049499
WBGene00000675	0.469005216	7	1.73E-02	0.069545307
WBGene00017577	-0.149929196	8	3.58E+00	-0.289997068
WBGene00017574	0.036730203	6	5.91E-01	-0.021076376
WBGene00017576	-0.134425637	69	5.31E+05	-0.140391178
WBGene00022048	0.235867385	68	3.55E-05	-0.171557367
WBGene00004981	0.244905672	9	8.32E-02	0.40600315
WBGene00004493	2	4	8.12E-06	1
WBGene00044789	1	4	1.59E-04	0.76848255
WBGene00020300	1	5	1.07E-04	1
WBGene00001338	0.72392955	6	3.69E-03	0.794162688
WBGene00020298	0.306042455	13	2.06E-02	-0.045847065
WBGene00045249	0.080715123	1	4.16E-01	0.026705926
WBGene00020297	1	20	2.27E-09	0.108538921
WBGene00020296	0.283194632	9	5.66E-02	0.465321199
WBGene00001666	0.03112415	5	5.86E-01	-0.017377816
WBGene00002187	0.039670779	18	9.59E-01	-0.001749389
WBGene00020299	0.0670492	12	5.25E-01	-0.180264478
WBGene00001332	0.121815048	9	2.87E-01	0.088247958
WBGene00000913	0.072158158	16	5.19E-01	0.145190347
WBGene00022046	0.230486565	9	9.62E-02	-0.251357564
WBGene00022047	0.069518157	6	4.64E-01	-0.063831607
WBGene00002041	-0.113533202	18	1.53E+01	-0.003271182
WBGene00022045	-0.139583427	2	9.69E-01	0.299779438
WBGene00022044	-0.01786921	10	1.29E+00	0.298591211
WBGene00235263	0.023665313	16	1.14E+00	-0.131220736
WBGene00235264	-0.004451402	1	5.33E-01	0
WBGene00019772	-0.004972806	2	5.80E-01	0
WBGene00019773	0.10381179	10	3.39E-01	0.025788231
WBGene00019774	0.223914039	42	1.81E-03	0.33864011
WBGene00021011	-0.429469553	29	7.43E+05	-1
WBGene00021012	0.040930614	49	3.34E+00	-0.066245238
WBGene00000213	-0.632275169	13	7.40E+03	-0.826565804
WBGene00021010	-0.117312354	7	2.21E+00	-0.010342303
WBGene00001625	-0.283125772	18	3.30E+02	-0.242083054
WBGene00018924	-0.150631765	14	1.29E+01	0.021837787
WBGene00001165	0.196844582	21	4.15E-02	0.234264596
WBGene00018925	0.31057463	8	5.25E-02	-0.123156454

WBGene00001579	0.075240258	53	7.23E-01	-0.116717298
WBGene00018926	0.292894875	24	3.25E-03	-0.055544622
WBGene00189987	-0.043358634	10	1.70E+00	-0.037523434
WBGene00015996	-0.426708103	16	1.78E+03	-0.607234076
WBGene00015994	-0.331660908	7	1.31E+01	-0.118211322
WBGene00015997	-0.034006359	6	9.97E-01	-0.043150566
WBGene00044457	-0.219611829	6	3.93E+00	-0.277634335
WBGene00015998	-0.120419965	6	1.89E+00	0.125573968
WBGene00015999	0.168979815	3	2.77E-01	0.556333541
WBGene00000676	0.333841244	6	6.59E-02	-0.189095162
WBGene00002140	0.420957593	17	1.30E-03	0.288896289
WBGene00015993	0.934847778	14	1.82E-06	0.899373665
WBGene00015497	-0.074938322	21	1.18E+01	0.408150248
WBGene00019665	0.214242805	13	7.19E-02	-0.122520081
WBGene00019658	0.549698782	4	3.06E-02	0.434922102
WBGene00004427	0.753375071	6	2.97E-03	0.719072513
WBGene00019664	0.967523045	5	1.34E-03	0.652427103
WBGene00019663	0.269645081	3	1.73E-01	0.336587633
WBGene00019662	0.151367257	2	3.19E-01	0.304442979
WBGene00044723	-0.761057473	6	2.14E+02	-0.02487382
WBGene00019659	-0.519455307	8	1.06E+02	-0.439252045
WBGene00019660	-0.62522377	12	3.56E+03	-0.603665363
WBGene00044458	-0.160691331	3	1.31E+00	-0.457038472
WBGene00019661	-0.337132683	7	1.37E+01	0.097341041
WBGene00018256	0.089068087	11	3.98E-01	0.458643387
WBGene00235287	-0.042905756	96	3.58E+04	-0.008259845
WBGene00021950	0.040950176	33	1.73E+00	0.038429864
WBGene00021949	-0.121976312	4	1.32E+00	-0.361966634
WBGene00044460	-0.016588416	6	8.77E-01	-0.421489494
WBGene00044459	-0.024030923	15	2.26E+00	-0.10279346
WBGene00021951	0.100838152	8	3.59E-01	-0.148891415
WBGene00021948	0.081573408	52	5.27E-01	-0.170343209
WBGene00021947	0.047309786	9	6.08E-01	0.235344537
WBGene00001788	0.505977952	6	1.85E-02	0.027269888
WBGene00000677	0.1854025	6	1.97E-01	-0.04996461
WBGene00018928	-0.178859569	8	4.67E+00	-0.081040662
WBGene00018933	-0.102441348	13	5.39E+00	-0.661526973
WBGene00018932	0.028159824	9	7.37E-01	0.028244353
WBGene00018931	-0.34791371	13	1.53E+02	-0.122138069
WBGene00004824	-0.208875423	28	1.21E+03	0.076481073
WBGene00018930	-0.242978716	11	2.03E+01	0.084263757
WBGene00018935	0.289542661	6	9.14E-02	-0.102847288
WBGene00018934	0.043361719	3	5.01E-01	-0.053616816
WBGene00001154	0.075775812	5	4.39E-01	0
WBGene00021935	0.002974624	5	7.04E-01	0
WBGene00185088	0	3	6.15E-01	0.001620887
WBGene00235283	0.015888498	2	5.35E-01	0.051951033

WBGene00021936	0.01241037	22	2.05E+00	0.111271076
WBGene00021942	0.077991304	3	4.26E-01	0.302201439
WBGene00044742	0.39734084	5	5.44E-02	0.542444256
WBGene00021943	0.366897545	14	6.98E-03	0.561187593
WBGene00021941	0	4	6.64E-01	-0.002517621
WBGene00021945	0.066801899	12	5.27E-01	0.179743561
WBGene00044757	-0.212295755	4	2.18E+00	0.208831908
WBGene00021939	-0.142846951	38	1.57E+03	-0.127246701
WBGene00021938	0.064266929	18	6.14E-01	-0.093182429
WBGene00007007	0.046017416	7	5.73E-01	0.094154304
WBGene00016649	-0.004712573	9	1.03E+00	-0.007753307
WBGene00045301	0	11	1.14E+00	0
WBGene00016648	0	9	9.79E-01	0
WBGene00045300	0	11	1.14E+00	0
WBGene00016647	0	9	9.79E-01	0
WBGene00045299	0	11	1.14E+00	0
WBGene00016646	0	9	9.79E-01	0
WBGene00045298	-0.088224467	11	3.25E+00	-0.058403247
WBGene00019073	0	9	9.79E-01	0
WBGene00019072	-0.001219382	11	1.16E+00	-0.027353766
WBGene00019070	-0.555592612	9	2.62E+02	-0.655927983
WBGene00019069	0.286729594	20	7.67E-03	0.227021309
WBGene00019067	0.429187397	9	1.30E-02	0.273174493
WBGene00019068	-0.035859083	9	1.40E+00	0.023950612
WBGene00004047	0.006696702	36	6.31E+00	0.07848398
WBGene00043705	-0.111504048	12	5.11E+00	-0.027833143
WBGene00002278	-9.60E-05	6	7.76E-01	-0.000130046
WBGene00021923	0.022060728	6	6.59E-01	0.09249728
WBGene00021925	0.001965952	3	6.09E-01	0.000236734
WBGene00021926	-0.000532421	4	6.66E-01	0.001829637
WBGene00021922	0.065618095	9	5.06E-01	0.296625451
WBGene00021921	0.209698171	24	2.29E-02	0.038241852
WBGene00021927	0.12769555	7	2.91E-01	-0.028037733
WBGene00021928	0.020299512	4	5.93E-01	-0.004835373
WBGene00005903	0.098419091	7	3.71E-01	-6.56E-05
WBGene00219399	0	3	6.15E-01	-0.023097917
WBGene00021929	0.074411028	7	4.53E-01	0.129394244
WBGene00021930	0.013231096	5	6.59E-01	0.736537623
WBGene00021920	0.116035827	3	3.56E-01	0.163997269
WBGene00021931	0.223118903	17	3.91E-02	0.214097036
WBGene00000816	0.001887808	7	8.25E-01	0.00220855
WBGene00021934	0.056446671	10	5.70E-01	0.236067026
WBGene00021933	0.001083902	5	7.13E-01	-0.000806056
WBGene00021932	0.163825241	8	2.02E-01	0.128840922
WBGene00044462	0.203564924	6	1.72E-01	-0.5014706
WBGene00016637	0.518279555	5	2.48E-02	-0.303823152
WBGene00003893	0.683172431	7	2.93E-03	0.632407549

WBGene00005905	0.068997096	2	4.37E-01	0.09132978
WBGene00005904	0.00387055	6	7.54E-01	0.026007393
WBGene00016638	-0.011905981	6	8.47E-01	-0.003746974
WBGene00016636	-0.03155451	4	7.93E-01	-0.052334132
WBGene00016639	-0.059754397	17	5.09E+00	-0.063987313
WBGene00016797	-0.014367655	12	1.48E+00	-0.005297968
WBGene00016798	-0.017790637	3	6.68E-01	0
WBGene00219437	0	1	5.26E-01	0
WBGene00016796	-0.041261358	13	2.34E+00	0.009997323
WBGene00022426	-0.020416202	11	1.46E+00	0.003070416
WBGene00022428	0.110337123	14	2.90E-01	0.061754757
WBGene00007020	0.042895494	11	6.87E-01	0.041822311
WBGene00022427	-0.087658522	26	3.34E+01	0.029799543
WBGene00001104	-0.449037034	13	6.09E+02	-0.394958723
WBGene00001103	-0.006961647	3	6.35E-01	0
WBGene00021123	-0.214109106	5	2.88E+00	0.203138266
WBGene00044463	0	2	5.69E-01	0
WBGene00021122	-0.087651559	8	2.02E+00	-0.51119265
WBGene00021121	-0.395757261	12	1.91E+02	-0.399826284
WBGene00021120	0.159081281	12	1.63E-01	-0.180895468
WBGene00009521	0.112369314	13	2.88E-01	0.08439754
WBGene00044908	-0.114360861	8	2.58E+00	-0.034812056
WBGene00009522	-0.430262607	4	7.39E+00	-0.752880672
WBGene00009523	-0.848267839	9	4.99E+03	-1
WBGene00009524	-0.071685871	3	8.61E-01	-0.052079843
WBGene00009518	-0.796526724	5	1.27E+02	-0.869607306
WBGene00009519	-0.27060814	3	2.20E+00	-0.650012804
WBGene00009517	-1	9	6.31E+05	-0.98760796
WBGene00009520	-1	12	2.83E+06	-0.983422986
WBGene00009526	-0.623450796	10	9.80E+02	-0.539629677
WBGene00009525	-0.157881075	3	1.29E+00	0.027808722
WBGene00009515	-0.193594657	32	2.17E+03	-0.103446202
WBGene00007476	-0.039745789	3	7.41E-01	0.016007115
WBGene00022425	0.004066812	13	1.26E+00	0
WBGene00018776	0.025501925	26	1.92E+00	0.070874699
WBGene00018778	0.003635001	20	2.14E+00	-0.010238718
WBGene00018777	-0.085702939	12	3.68E+00	-0.009604449
WBGene00019054	-0.062935571	3	8.27E-01	0.052925497
WBGene00019053	0	1	5.26E-01	0
WBGene00004338	0.076840406	11	4.60E-01	0.047712081
WBGene00000678	-0.005065911	7	8.74E-01	-0.14759768
WBGene00000679	-0.065512294	9	1.89E+00	0.003121438
WBGene00022423	0.118704906	18	2.29E-01	0.323035531
WBGene00022314	0	2	5.69E-01	0
WBGene00022309	0	2	5.69E-01	0
WBGene00022310	-0.012967042	10	1.22E+00	-0.055926579
WBGene00002180	0.012927561	2	5.41E-01	-0.005848489

WBGene00022311	-0.14652933	5	1.86E+00	-0.216595823
WBGene00022312	-0.13463578	3	1.16E+00	-0.10752517
WBGene00235267	-0.698898947	6	1.35E+02	-0.101753071
WBGene00000546	-0.499929187	17	9.90E+03	-0.497903417
WBGene00000547	-0.20201091	24	3.57E+02	-0.050390298
WBGene00022307	-0.263241419	18	2.30E+02	-0.450195907
WBGene00000680	-0.49903949	7	5.22E+01	-0.483361833
WBGene00022313	-0.084443736	26	3.08E+01	-0.145453672
WBGene00044464	-0.120519622	10	3.96E+00	-0.024161124
WBGene00003806	0.07760202	12	4.59E-01	0.083160286
WBGene00022306	0.001752727	9	9.61E-01	0.000651125
WBGene00019368	-0.043048927	11	1.90E+00	0.186554211
WBGene00044719	-0.000551642	3	6.16E-01	0.670903606
WBGene00019369	-0.084011793	7	1.68E+00	-0.038701789
WBGene00019367	0.629977982	12	4.03E-04	0.347691458
WBGene00019370	0.077026605	27	5.28E-01	0.372290494
WBGene00016427	-0.359072046	84	3.35E+14	-0.443580945
WBGene00000681	0.00092481	5	7.13E-01	-0.196610357
WBGene00044073	-0.452691598	9	9.32E+01	-0.787479915
WBGene00016425	-0.326888812	13	1.15E+02	-0.727206376
WBGene00016424	-0.480492082	12	5.63E+02	-0.910566644
WBGene00021519	-0.11689311	5	1.53E+00	-0.557576829
WBGene00021518	-0.592269824	9	3.80E+02	-0.710111248
WBGene00021517	-0.523932472	16	8.67E+03	-0.318943255
WBGene00003794	-0.005841505	48	2.61E+01	0.064535566
WBGene00021516	-0.002135382	2	5.73E-01	0.010449769
WBGene00000416	-0.001456947	10	1.07E+00	0.027254601
WBGene00021515	-0.015109689	2	6.03E-01	0.053814828
WBGene00021514	-6.91E-05	2	5.69E-01	0.000285187
WBGene00001105	-0.165805198	9	5.19E+00	-0.345312856
WBGene00003712	-0.298772519	6	7.05E+00	0.008069902
WBGene00003682	-0.369829678	13	2.07E+02	-0.259321998
WBGene00003677	-0.1598452	7	3.15E+00	-0.019895755
WBGene00045255	-0.094131843	7	1.83E+00	0.036651143
WBGene00021525	-0.113412121	2	8.77E-01	0.014512313
WBGene00021513	-0.143974567	12	7.73E+00	-0.269575073
WBGene00021522	0.068873944	14	5.30E-01	0.215847113
WBGene00004497	0.2576658	2	2.13E-01	0.284614283
WBGene00021512	0.02877205	10	7.72E-01	0.028843321
WBGene00021511	0.064969074	8	4.99E-01	0.212804884
WBGene00021524	0.132062168	14	2.12E-01	0.155291599
WBGene00044618	-0.06469065	6	1.25E+00	-0.089145695
WBGene00019538	0.022344032	4	5.86E-01	-0.185965955
WBGene00003947	-0.250175401	9	1.21E+01	-0.777327435
WBGene00019537	1	5	6.16E-04	-0.575377183
WBGene00019536	0.045352288	14	7.46E-01	-0.260202393
WBGene00019540	-0.23986918	11	1.96E+01	-0.306364272

WBGene00044293	-0.242911796	2	1.44E+00	-0.008476953
WBGene00195004	-0.201659065	3	1.59E+00	-0.038348216
WBGene00021507	-0.037371619	16	3.10E+00	0.037427065
WBGene00021508	0.11495	8	3.16E-01	0.097679207
WBGene00021506	0.019566113	12	9.62E-01	-0.034399948
WBGene00021509	0.475962044	40	1.71E-07	0.360104853
WBGene00021505	0.588446296	11	1.07E-03	0.632127567
WBGene00000682	0.08983122	5	4.01E-01	-0.066902006
WBGene00021504	-0.258923422	4	2.83E+00	-0.365590063
WBGene00021510	0.535880899	17	1.80E-04	0.371489101
WBGene00021410	-0.321668921	5	5.80E+00	-0.025350592
WBGene00004913	0.053826431	21	8.11E-01	0.109912226
WBGene00000683	-0.042020393	8	1.33E+00	-0.06364718
WBGene00195012	-0.655640073	2	6.94E+00	-0.083806821
WBGene00000553	0.381285999	50	4.40E-07	0.327923328
WBGene00019462	0.004817409	25	3.01E+00	0.059999564
WBGene00001173	0.24471565	88	1.22E-06	0.250208289
WBGene00001186	0.25833154	97	1.02E-07	0.091790047
WBGene00001253	-0.080181775	11	2.95E+00	0.357271862
WBGene00018681	0.047493841	43	2.00E+00	0.060589585
WBGene00018680	-0.065415009	6	1.26E+00	0.042012871
WBGene00018679	-0.03390283	8	1.24E+00	-0.021063099
WBGene00138717	-0.071981947	4	9.94E-01	0.061920991
WBGene00018678	-0.035961131	11	1.75E+00	0.041477748
WBGene00006738	-0.06973708	3	8.54E-01	-0.091177554
WBGene00021655	3.02E-05	7	8.38E-01	-0.013194764
WBGene00044466	0	3	6.15E-01	-0.094359085
WBGene00022298	-0.337600343	12	9.12E+01	-0.46193377
WBGene00022297	-0.056624456	1	6.21E-01	-0.093578948
WBGene00022302	-0.381640919	3	3.71E+00	-0.801364121
WBGene00022300	0.098267484	36	2.76E-01	-0.024037262
WBGene00022296	0.005462299	31	4.58E+00	-0.026205061
WBGene00022301	-0.036640128	28	1.15E+01	0.01224141
WBGene00022303	-0.115611757	5	1.52E+00	-0.264684478
WBGene00022295	-0.391337891	21	8.43E+03	-0.185651552
WBGene00044467	0.197878436	10	1.21E-01	0.084965144
WBGene00019874	-0.857272475	3	3.48E+01	-0.250371673
WBGene00019873	0.279719476	13	2.94E-02	0.34604362
WBGene00019875	-0.013674611	38	1.51E+01	-0.273668986
WBGene00044649	0.112092479	22	2.36E-01	-0.023928827
WBGene00219423	0	10	1.06E+00	-0.037886713
WBGene00000487	-0.056805556	14	3.29E+00	-0.035457227
WBGene00016027	0	5	7.18E-01	-0.049190177
WBGene00016025	0.080209925	2	4.19E-01	-0.001504305
WBGene00016024	-0.089983968	5	1.29E+00	-0.005501653
WBGene00001729	-0.357005764	9	3.56E+01	-0.150876497
WBGene00016023	-0.086298358	4	1.08E+00	-0.044173133

WBGene00077523	-0.047769394	4	8.68E-01	0.002557299
WBGene00016918	0.067932316	21	6.05E-01	0.212372807
WBGene00235274	-0.102535091	4	1.18E+00	-0.041276835
WBGene00016920	-0.095187062	4	1.13E+00	-0.013458662
WBGene00001557	-0.07346163	11	2.73E+00	-0.238550042
WBGene00016919	-0.022691775	4	7.54E-01	0.000831569
WBGene00016917	-0.076880968	6	1.37E+00	0.087037023
WBGene00022134	0.011272116	22	2.10E+00	0.030435562
WBGene00044650	-0.001262168	7	8.47E-01	0.001386274
WBGene00235277	-0.184485635	1	9.03E-01	-1
WBGene00020208	0.313828722	24	1.99E-03	0.209178983
WBGene00019785	-0.51297188	16	7.25E+03	-0.514140112
WBGene00019784	-0.371038921	5	7.99E+00	-0.472986889
WBGene00019783	-0.503274241	27	2.03E+06	-0.180489222
WBGene00019786	-0.010053934	23	3.63E+00	0.000132399
WBGene00019787	0.008534811	18	1.68E+00	0.018165147
WBGene00002990	0.185545215	34	1.67E-02	0.205277201
WBGene00021416	-0.118217068	3	1.07E+00	0.044658953
WBGene00006920	0.219976316	15	5.24E-02	0.393554322
WBGene00006912	0.097895993	5	3.80E-01	0.344665405
WBGene00219413	0	1	5.26E-01	0.032177028
WBGene00021415	-0.621660457	12	3.40E+03	-0.258744649
WBGene00021417	0.077951407	7	4.40E-01	0.081527791
WBGene00021425	-0.010159448	22	3.34E+00	0.027166489
WBGene00021423	0.04628352	43	2.10E+00	0.054081033
WBGene00021421	0.030556179	6	6.19E-01	0.026108097
WBGene00021427	0.533974378	2	7.42E-02	0.132678668
WBGene00021420	0.703436697	7	2.48E-03	0.25308153
WBGene00021419	0.080178591	12	4.44E-01	-0.062939861
WBGene00021428	0.131274405	7	2.83E-01	-0.002965662
WBGene00021430	0.231427044	47	7.06E-04	0.076699906
WBGene00016671	-0.009391443	13	1.52E+00	-0.084056829
WBGene00000402	-0.117787993	60	3.56E+04	-0.113576432
WBGene00235340	-0.1238825	18	1.85E+01	-0.101859914
WBGene00016670	-0.428269129	8	4.60E+01	-0.745669991
WBGene00016669	-0.377304458	4	5.50E+00	-0.152349983
WBGene00016668	-0.100311442	4	1.16E+00	-0.180049976
WBGene00001705	-0.038248206	12	2.01E+00	-0.053498275
WBGene00044468	0	3	6.15E-01	0
WBGene00022090	0.283152749	35	5.94E-04	0.167846709
WBGene00022092	0.17623505	6	2.11E-01	0.244051996
WBGene00022089	0.019980664	5	6.30E-01	0.852154388
WBGene00022087	-0.025527992	54	1.15E+02	-0.017805144
WBGene00022093	-0.036846598	5	9.12E-01	-0.039344452
WBGene00022086	0	4	6.64E-01	0
WBGene00022094	0	4	6.64E-01	-0.030600122
WBGene00235288	0	1	5.26E-01	0

WBGene00235342	0	1	5.26E-01	0
WBGene00022095	0	1	5.26E-01	0
WBGene00022096	-0.258834554	10	1.80E+01	-0.049109937
WBGene00022083	0	11	1.14E+00	0
WBGene00235343	0	1	5.26E-01	0
WBGene00022097	-0.202112	5	2.67E+00	-0.313750223
WBGene00235294	0.079567448	3	4.23E-01	-0.171999665
WBGene00022078	-0.043835921	10	1.71E+00	-0.144728458
WBGene00022077	0.002339878	2	5.64E-01	0.005999591
WBGene00022101	0.188287319	7	1.76E-01	-0.055228236
WBGene00022099	0.054396079	4	4.90E-01	-0.278686427
WBGene00022076	-0.083556932	2	7.82E-01	0.026512012
WBGene00004878	-0.001482914	10	1.07E+00	-0.029848695
WBGene00003595	0.000725801	3	6.13E-01	0.000876461
WBGene00003161	0.714513533	5	6.93E-03	0.602985548
WBGene00022075	0.042496525	2	4.84E-01	0.023061239
WBGene00004367	0.146584336	13	1.81E-01	0.273726936
WBGene00022100	0.849558484	39	2.55E-13	0.828800574
WBGene00022074	0.335076503	14	1.11E-02	0.319555423
WBGene00022377	-0.01569665	4	7.25E-01	-0.022984854
WBGene00022376	0.084308589	7	4.17E-01	-0.110631043
WBGene00044651	-0.008840248	18	2.31E+00	0.071413354
WBGene00022378	-0.022881345	27	7.18E+00	0.070714151
WBGene00006705	0.064201096	5	4.73E-01	0.081361362
WBGene00022382	0.01082042	3	5.84E-01	0.010734777
WBGene00050885	0.16869364	4	2.58E-01	0.192852187
WBGene00022379	0.002133985	5	7.08E-01	0.003649192
WBGene00022380	0.001649627	2	5.65E-01	0.014729965
WBGene00022381	0.007151852	7	7.90E-01	0.073314669
WBGene00022375	-0.226101718	9	9.53E+00	-0.313618096
WBGene00022374	0.060088868	8	5.22E-01	0.06708089
WBGene00044485	0.139686361	5	2.90E-01	0.234579007
WBGene00043061	0.00482307	4	6.46E-01	-0.018268406
WBGene00235350	-0.073637018	4	1.00E+00	0.052006301
WBGene00021876	0.05395685	10	5.85E-01	0.26096827
WBGene00021877	0.079408997	20	4.73E-01	0.099240043
WBGene00219424	0.011557146	1	5.09E-01	0.135201934
WBGene00021868	0.104053422	13	3.23E-01	0.175353733
WBGene00045397	0.055731614	3	4.73E-01	0.214135958
WBGene00021875	0.070949409	3	4.40E-01	0.077173627
WBGene00044487	0.339648514	3	1.24E-01	0.424542744
WBGene00021894	1	4	2.61E-04	2
WBGene00044488	1	10	1.59E-07	1
WBGene00235268	0.020711709	8	7.49E-01	0.231380348
WBGene00021878	-0.06840245	14	3.89E+00	-0.060735156
WBGene00023484	-0.442288165	12	3.46E+02	-0.50303959
WBGene00043062	-0.02593494	13	1.90E+00	-0.003744286

WBGene00044491	-0.295232841	2	1.75E+00	-0.167607063
WBGene00044489	-0.544601537	5	2.46E+01	-0.392496592
WBGene00044490	-0.892561396	5	2.36E+02	-1
WBGene00021873	-0.771889238	22	4.93E+07	-0.90765745
WBGene00043702	-1	6	2.84E+03	-2
WBGene00021879	-0.386307415	4	5.78E+00	-0.452020548
WBGene00021895	0.024484699	8	7.23E-01	-0.146840801
WBGene00021880	0.107551228	4	3.64E-01	-0.325500043
WBGene00044495	0.009262541	5	6.76E-01	0.019151201
WBGene00044492	-0.019086458	4	7.39E-01	0.034672248
WBGene00021872	-0.254361332	6	5.08E+00	-0.01810332
WBGene00021881	-0.045068063	28	1.44E+01	-0.011616644
WBGene00021882	0.008651311	34	5.13E+00	-0.021936217
WBGene00021871	0.014183356	9	8.48E-01	-0.050060032
WBGene00235102	0.222809975	5	1.69E-01	0.019880162
WBGene00021883	0.291627987	5	1.08E-01	-0.126733561
WBGene00021884	0.211182009	5	1.82E-01	-0.805532116
WBGene00021898	-0.143912472	12	7.73E+00	-0.207240888
WBGene00044493	0.032399867	7	6.41E-01	-0.563563282
WBGene00021887	-0.029505051	15	2.46E+00	-0.307494037
WBGene00006708	0.317072056	9	4.02E-02	0.246289187
WBGene00021888	0.210410171	3	2.28E-01	0.131639295
WBGene00021870	-0.474332468	17	6.37E+03	-0.348611534
WBGene00021897	0.004904094	6	7.48E-01	0.006200584
WBGene00002243	-0.142207199	36	1.02E+03	-0.086814038
WBGene00189961	-0.269726286	8	1.07E+01	-0.013764795
WBGene00021890	0.463493914	30	7.91E-06	0.123746432
WBGene00021891	-0.001974559	1	5.29E-01	-0.014046731
WBGene00219425	0.083819031	8	4.20E-01	0.043522715
WBGene00021892	-0.568084163	12	1.72E+03	-0.452194484
WBGene00021869	-0.929230484	7	1.84E+03	-0.70062858
WBGene00003008	0.038888295	3	5.12E-01	-0.016760609
WBGene00021893	0.700665622	15	3.16E-05	0.610180677
WBGene00022069	0.511047554	90	2.72E-16	0.105236345
WBGene00022067	0.049572784	18	8.01E-01	0.017336445
WBGene00022070	-0.324554242	9	2.57E+01	-0.949160851
WBGene00022071	-0.028588519	2	6.34E-01	-0.018480806
WBGene00022072	-0.010893191	3	6.47E-01	-0.062460219
WBGene00235279	-0.20860349	14	2.99E+01	-0.315003753
WBGene00022066	-0.522400083	8	1.09E+02	-0.890645225
WBGene00022073	0.167802628	26	5.29E-02	-0.063196972
WBGene00003153	0.258419991	70	6.35E-06	0.309316946
WBGene00020730	0	3	6.15E-01	-0.006545937
WBGene00020728	-0.101528332	11	3.81E+00	-0.152937457
WBGene00022061	0.097809967	9	3.66E-01	-0.004274103
WBGene00022063	-0.049928924	8	1.43E+00	-0.145799191
WBGene00022062	-0.132803459	18	2.17E+01	-0.195128413

WBGene00023186	-0.062359765	1	6.32E-01	-0.036759564
WBGene00022064	-0.620121386	9	5.02E+02	-0.505039683
WBGene00019766	0.019802617	15	1.15E+00	0.082430534
WBGene00022059	0.121025454	72	4.23E-02	0.02322381
WBGene00022060	-0.686011444	12	7.73E+03	-0.994672665
WBGene00020831	0.104765705	17	3.00E-01	-0.051845733
WBGene00020832	-0.162856197	6	2.58E+00	-0.081467643
WBGene00044469	-0.905815302	7	1.51E+03	-0.87407176
WBGene00020833	-0.183628922	12	1.28E+01	-0.123300658
WBGene00001548	-0.542477671	30	3.06E+07	-0.544084144
WBGene00021089	0.024525468	6	6.47E-01	0.022130672
WBGene00021088	0.458338593	12	3.59E-03	0.251496997
WBGene00021087	-0.714693484	8	6.36E+02	-1
WBGene00021086	-1	3	7.88E+01	-1
WBGene00021085	0.162794828	4	2.67E-01	-0.424093523
WBGene00021084	-0.025909185	4	7.68E-01	0.211888252
WBGene00021083	-0.003431756	1	5.32E-01	-0.555709167
WBGene00021090	0.151219778	4	2.85E-01	-0.135562466
WBGene00021082	0.135710844	11	2.29E-01	-0.107650384
WBGene00018327	0.016296989	3	5.69E-01	0.012838302
WBGene00018328	0.341915753	8	3.94E-02	0.121879217
WBGene00001999	0.394188906	13	6.18E-03	-0.04565386
WBGene00018324	-0.020326104	1	5.59E-01	0.085075693
WBGene00018330	0.349355309	29	2.68E-04	0.461158293
WBGene00018323	0.035075444	3	5.21E-01	0.068549803
WBGene00021953	-0.092570388	6	1.54E+00	-0.145347402
WBGene00021952	0.065190968	5	4.70E-01	-0.000934335
WBGene00015249	0.013433955	11	9.74E-01	-0.005007395
WBGene00015250	0.126301835	8	2.84E-01	0.046530056
WBGene00015251	0.027591096	3	5.40E-01	0.263519313
WBGene00015248	-0.065584079	5	1.10E+00	-0.549853727
WBGene00015252	-0.280285762	7	8.53E+00	0.033076278
WBGene00015414	-0.941101352	2	2.06E+01	-0.394802707
WBGene00219410	-0.585111965	4	1.76E+01	-0.447048396
WBGene00001119	-0.172155453	10	6.97E+00	-0.085052035
WBGene00015413	0.147573021	9	2.22E-01	0.071442777
WBGene00015412	0.091223889	8	3.92E-01	0.772532511
WBGene00015416	-0.223285656	6	4.04E+00	-0.419990078
WBGene00195067	-0.03005467	2	6.38E-01	-0.080618046
WBGene00015411	-0.057019611	2	7.07E-01	-0.078653194
WBGene00015417	-0.010901749	1	5.43E-01	-0.090076409
WBGene00021033	-0.34992159	4	4.71E+00	-0.124021781
WBGene00001702	-0.61208014	8	2.48E+02	-0.660564792
WBGene00001692	-0.81670871	8	1.62E+03	-0.748674184
WBGene00001699	-0.275816366	3	2.25E+00	-0.902990192
WBGene00017281	-2	14	7.44E+09	-1
WBGene00019049	-0.257473374	5	3.82E+00	-0.279897376

WBGene00019051	-0.261416197	6	5.35E+00	-0.458104775
WBGene00019048	0.242208932	8	9.82E-02	0.477896054
WBGene00019047	-0.206972459	8	6.04E+00	0.130100955
WBGene00019046	-0.860943109	5	1.92E+02	-0.222562718
WBGene00023475	-0.285090832	6	6.37E+00	-0.32635635
WBGene00015656	-0.059781538	7	1.37E+00	-0.11043545
WBGene00015655	-0.320826116	2	1.93E+00	0.033615668
WBGene00023474	-0.087694743	3	9.29E-01	-0.024451836
WBGene00023463	-0.21508621	4	2.22E+00	-0.062684597
WBGene00015653	0.149182831	4	2.88E-01	-0.106155655
WBGene00015652	0	4	6.64E-01	-0.000820616
WBGene00044470	-0.508465378	4	1.15E+01	0.200650509
WBGene00015651	0.032812547	18	1.09E+00	0.135498088
WBGene00023462	-0.091568994	5	1.30E+00	0.230735923
WBGene00000424	0.463176349	7	1.81E-02	0.24638455
WBGene00015658	0.12191439	5	3.25E-01	0.173248157
WBGene00006769	0.72804492	22	3.77E-07	0.70242915
WBGene00019778	0.151787961	8	2.25E-01	0.719812709
WBGene00019777	0.204851423	12	9.08E-02	0.023555123
WBGene00015037	0.050578088	12	6.48E-01	0.049627954
WBGene00015038	0.073221222	7	4.57E-01	-0.04272426
WBGene00003889	0.73293369	22	3.39E-07	1
WBGene00015036	-0.198714128	8	5.60E+00	-0.153419848
WBGene00015035	-0.077646446	12	3.32E+00	0.013103947
WBGene00021375	0.060855639	4	4.72E-01	0.222385154
WBGene00021374	0.098440734	6	3.75E-01	0.215407598
WBGene00021376	0.114691164	5	3.41E-01	0.004957193
WBGene00006383	0.06772217	35	7.71E-01	-0.015633046
WBGene00021377	0.000442985	8	9.02E-01	0.027153608
WBGene00021378	0	2	5.69E-01	0.04919276
WBGene00021379	0.524415533	2	7.69E-02	-0.156955211
WBGene00021381	-0.428442325	13	4.60E+02	-0.09387936
WBGene00002188	-0.087395711	10	2.76E+00	-0.236907642
WBGene00022610	-0.343858477	16	4.60E+02	-0.528904941
WBGene00000481	0.659953425	31	1.65E-08	0.75891686
WBGene00006756	0.722454934	21	7.51E-07	0.917780566
WBGene00022609	0.387630232	3	9.91E-02	-0.096114506
WBGene00022608	0.190691662	12	1.09E-01	0.143082127
WBGene00195049	-0.004489305	1	5.33E-01	0.049369471
WBGene00016987	0.31021399	6	7.84E-02	0.875413425
WBGene00021362	-0.05463025	33	3.51E+01	-0.084097909
WBGene00003129	-0.010360308	10	1.18E+00	-0.061217635
WBGene00021363	0.036362972	15	8.89E-01	0.075187518
WBGene00021359	0.040498182	6	5.75E-01	0.109501771
WBGene00021358	-0.408428894	4	6.54E+00	0.219340402
WBGene00021364	-0.455473883	6	2.24E+01	0.203208002
WBGene00195010	-0.008277825	1	5.39E-01	0

WBGene00021357	-0.118185258	10	3.86E+00	-0.033301242
WBGene00021367	0.010493294	10	9.43E-01	-0.281700341
WBGene00302986	0.053637374	9	5.70E-01	-0.233693886
WBGene00021366	-0.082937368	10	2.62E+00	-0.349723589
WBGene00021365	0.039269667	26	1.36E+00	0.011743337
WBGene00021370	0.177326893	18	7.94E-02	-0.408710158
WBGene00021371	0.079410081	13	4.52E-01	-0.280677207
WBGene00021369	0.343529473	17	4.93E-03	0.111135739
WBGene00021372	0.018229525	13	1.04E+00	0.070862663
WBGene00021373	-0.485183512	14	1.66E+03	-0.553911739
WBGene00021368	-0.112297296	9	3.03E+00	-0.163719441
WBGene00006869	0.343102679	8	3.89E-02	0.178187954
WBGene00019546	-0.045027022	23	8.00E+00	0.064379871
WBGene00019545	-0.363420179	6	1.14E+01	-0.538435446
WBGene00003884	-0.767412334	25	4.40E+08	-0.970940232
WBGene00019725	0.020565539	4	5.92E-01	0.166321728
WBGene00019724	0.246454102	4	1.67E-01	0.349723627
WBGene00019723	-0.102710778	10	3.26E+00	-0.315265131
WBGene00044690	-0.191974427	2	1.18E+00	-0.58540844
WBGene00019726	-0.104285695	23	3.05E+01	-0.026137785
WBGene00017907	-0.31472786	15	2.00E+02	-0.215965286
WBGene00000287	-0.42093296	13	4.15E+02	-0.303734784
WBGene00017906	-0.08876001	4	1.09E+00	-0.06304126
WBGene00006970	0.626025437	14	1.62E-04	0.310818087
WBGene00000009	-0.543613619	16	1.20E+04	-0.395718038
WBGene00018144	-0.612281072	13	5.64E+03	-0.464860259
WBGene00018145	0.181500135	15	9.48E-02	0.038026655
WBGene00018146	-0.654311265	11	2.66E+03	-0.312655972
WBGene00018148	-0.455809925	12	4.11E+02	0.027023412
WBGene00018143	-0.131890834	6	2.05E+00	-0.106451952
WBGene00018142	-0.293060312	5	4.81E+00	-0.188507649
WBGene00018141	-0.545974465	15	7.06E+03	-0.440853468
WBGene00044471	-0.429723356	1	1.85E+00	0.477712184
WBGene00044292	-0.398675253	1	1.69E+00	-0.511628045
WBGene00044472	-0.041587294	3	7.48E-01	-0.874567139
WBGene00023478	-0.086018472	6	1.46E+00	-0.041721152
WBGene00006488	-0.216538855	2	1.30E+00	-0.070770422
WBGene00235358	-0.017821815	1	5.55E-01	-0.095105442
WBGene00044473	-0.509872405	3	6.78E+00	-0.173091008
WBGene00235359	-0.305506411	3	2.59E+00	-0.024225668
WBGene00044474	-0.071886169	2	7.48E-01	0
WBGene00044475	-0.003435149	1	5.32E-01	0
WBGene00235285	-0.004268168	3	6.27E-01	-0.001396162
WBGene00235297	-0.00558793	1	5.35E-01	-0.001827869
WBGene00235293	-0.135823746	3	1.17E+00	-0.046678736
WBGene00018973	-0.208905644	3	1.64E+00	-0.083498674
WBGene00044476	-0.501035423	4	1.10E+01	-0.656721734

WBGene00235361	-0.016787652	1	5.53E-01	-0.013812759
WBGene00018972	-0.127989598	5	1.65E+00	-0.076827579
WBGene00018971	-0.478616403	12	5.50E+02	-0.698912364
WBGene00018970	-0.222752785	9	9.21E+00	-0.098767285
WBGene00021581	-0.365675238	18	1.47E+03	-0.289106409
WBGene00021582	-0.327628587	9	2.65E+01	-0.019359286
WBGene00021580	-0.041471327	3	7.47E-01	0.003884586
WBGene00195003	-0.044966858	2	6.75E-01	-0.159827013
WBGene00021583	-0.244533125	10	1.54E+01	-0.069420948
WBGene00021579	-0.281270875	8	1.19E+01	-0.217474199
WBGene00021585	-0.120609945	7	2.27E+00	-0.041651599
WBGene00021586	-0.317888891	5	5.66E+00	-0.78605472
WBGene00271795	-0.068488041	5	1.12E+00	-0.05763484
WBGene00021587	-0.175167977	12	1.15E+01	-0.174632936
WBGene00018548	-0.21939121	7	5.15E+00	-0.37035129
WBGene00005430	-0.005410401	9	1.03E+00	-0.202974068
WBGene00005432	-0.270074066	5	4.15E+00	-0.385169777
WBGene00005433	0	4	6.64E-01	-0.001862384
WBGene00018547	-0.520232482	103	2.44E+24	-0.656170547
WBGene00018549	-0.337686751	4	4.40E+00	-0.841122266
WBGene00235115	-0.02207967	4	7.52E-01	-0.007579143
WBGene00018550	-0.21937293	2	1.31E+00	-0.071822127
WBGene00018551	-0.04254849	1	5.96E-01	-0.090715988
WBGene00020929	0.315318699	5	9.26E-02	0.189951208
WBGene00020930	0.587120139	77	1.72E-16	0.146196219
WBGene00018065	-0.552635063	13	2.50E+03	-0.363973762
WBGene00018064	-0.153729335	11	7.06E+00	0.041672
WBGene00003955	-0.551791658	16	1.37E+04	-0.709978883
WBGene00006951	-0.02017498	3	6.76E-01	-0.220658226
WBGene00020982	-0.727101026	4	3.90E+01	-0.274358628
WBGene00006173	-0.43983315	7	3.20E+01	-0.250994972
WBGene00020979	-0.710135883	2	8.54E+00	-0.393328725
WBGene00004157	-0.362044382	33	5.62E+05	-0.46589391
WBGene00020983	-0.071254891	2	7.47E-01	-0.049891496
WBGene00016437	-0.373309369	4	5.37E+00	-0.214484587
WBGene00016434	-0.184209046	2	1.15E+00	-0.441541239
WBGene00195006	-0.419657992	4	6.97E+00	-0.591377198
WBGene00016433	-0.974805989	4	1.56E+02	-1
WBGene00016435	-0.011073609	3	6.48E-01	0.083489935
WBGene00016432	-0.044323307	17	3.90E+00	0.014861166
WBGene00006701	-0.039500981	5	9.28E-01	0.045823925
WBGene00016436	0.080178738	3	4.21E-01	0.059746344
WBGene00044477	0.113913951	5	3.43E-01	-0.391893225
WBGene00235365	0.118449432	2	3.62E-01	-0.161813068
WBGene00235364	0.070086127	3	4.42E-01	-0.725354397
WBGene00235363	-0.102414934	5	1.40E+00	-0.588191148
WBGene00018643	-0.692329762	12	8.37E+03	-0.11206717

WBGene00018645	-0.195456896	5	2.55E+00	-0.302032984
WBGene00018646	-0.231818836	8	7.59E+00	-0.301498159
WBGene00018647	-0.054836028	7	1.32E+00	-0.27237671
WBGene00235367	-0.134014041	1	7.79E-01	-0.136336043
WBGene00018649	-0.70915194	3	1.73E+01	-0.264688032
WBGene00018650	-0.241686857	5	3.45E+00	-0.029135997
WBGene00235368	-0.349774913	5	6.96E+00	-0.422669635
WBGene00018651	-0.13428785	3	1.16E+00	-0.140908673
WBGene00018652	-0.043188861	6	1.07E+00	-0.073878046
WBGene00019933	-0.550316435	7	7.98E+01	-0.664949999
WBGene00019931	-0.012944905	6	8.53E-01	-0.124592188
WBGene00019533	-0.088968644	2	7.99E-01	-0.196388222
WBGene00219216	-0.346051576	9	3.19E+01	-0.572479292
WBGene00019531	-0.669472679	22	5.35E+06	-1
WBGene00019530	-0.892870372	16	3.56E+06	-1
WBGene00195048	-0.021796406	4	7.50E-01	-0.043248776
WBGene00004385	0	3	6.15E-01	0.001027567
WBGene00004386	-0.061619792	5	1.07E+00	0.050484774
WBGene00001033	0.051633363	6	5.30E-01	-0.095805382
WBGene00019535	0.173185575	2	2.94E-01	-0.122967409
WBGene00019534	0.196588792	3	2.44E-01	0.407727035
WBGene00044478	-0.499526487	3	6.46E+00	-0.193650135
WBGene00019438	0.002079245	2	5.64E-01	-0.004439741
WBGene00003938	-0.116217181	14	7.80E+00	-0.001176126
WBGene00017934	0.415657152	43	6.91E-07	0.136972985
WBGene00235371	-0.275365625	6	5.93E+00	-0.190855316
WBGene00044092	-0.366835404	10	5.89E+01	-0.648155895
WBGene00017935	0.014267531	4	6.13E-01	-0.266516056
WBGene00017936	-0.205047496	8	5.94E+00	-0.527537138
WBGene00001074	-0.933008354	7	1.90E+03	-0.960955508
WBGene00000611	-0.375441986	7	1.88E+01	-0.856560328
WBGene00018085	0.125918612	5	3.17E-01	0.095812751
WBGene00000123	0.417859756	44	4.70E-07	0.103277585
WBGene00000610	-0.456512385	6	2.26E+01	-0.047262026
WBGene00018084	0	1	5.26E-01	-0.006037212
WBGene00018083	-0.074635772	3	8.73E-01	-0.108431211
WBGene00018082	0	1	5.26E-01	-0.01422927
WBGene00018081	0.111159343	3	3.64E-01	-0.187261193
WBGene00018080	-0.334064103	3	2.96E+00	-0.44556938
WBGene00003668	0.039105936	7	6.06E-01	0.261608687
WBGene00017487	-0.190700641	21	1.30E+02	-0.092940622
WBGene00005715	-0.01599945	5	7.96E-01	-0.028258881
WBGene00017486	-0.202537222	2	1.23E+00	-0.377580091
WBGene00017488	-0.368715181	3	3.49E+00	-0.296658896
WBGene00017485	0.167107367	1	3.23E-01	-0.361418347
WBGene00044479	-1	4	2.05E+03	-0.632639823
WBGene00017489	-0.441628136	16	2.26E+03	-0.323880009

WBGene00017484	-0.076038602	2	7.60E-01	-0.026437301
WBGene00017483	-0.159651178	10	6.08E+00	-0.279078139
WBGene00017482	-0.086453174	35	1.30E+02	-0.084104301
WBGene00021287	-0.011656195	18	2.43E+00	-0.037151944
WBGene00020972	-0.147652181	18	2.85E+01	-0.049652098
WBGene00020973	-0.454282788	14	1.06E+03	-0.272628176
WBGene00020976	-0.356286039	22	6.04E+03	-0.41082678
WBGene00020977	-0.018251363	10	1.29E+00	0.02167548
WBGene00020974	-0.097844422	10	3.09E+00	-0.106212178
WBGene00020978	-0.039003052	12	2.03E+00	-0.166244686
WBGene00005662	-0.204925092	7	4.57E+00	0.088801808
WBGene000050916	-0.152772394	3	1.26E+00	-0.018764612
WBGene00018898	0.06697522	120	3.56E+00	0.030199089
WBGene00021286	0.664469924	11	4.35E-04	0.028547098
WBGene00004419	1	8	2.08E-06	0.32672687
WBGene00021282	0.27853959	18	1.27E-02	0.153352125
WBGene00021281	0.014108739	60	2.33E+01	-0.07771688
WBGene00021284	0.023280939	1	4.92E-01	0.009407189
WBGene00021285	0.228984101	2	2.37E-01	-0.830962958
WBGene00019950	-0.171757019	13	1.39E+01	-0.186665732
WBGene00006228	-0.303848961	9	2.08E+01	-0.358862249
WBGene00019949	-1	12	2.29E+06	-0.783865752
WBGene00019951	-0.598508183	6	6.45E+01	-0.870832242
WBGene00019948	-0.49830679	8	8.75E+01	-0.455404241
WBGene00019952	-0.991898496	6	1.18E+03	-0.654104269
WBGene00019956	-0.522784672	4	1.24E+01	-0.61662637
WBGene00019953	0.240114802	17	2.92E-02	0.11855698
WBGene00019947	0.344999541	5	7.64E-02	1
WBGene00019946	-0.079119351	4	1.03E+00	0.416039988
WBGene00019955	0.181335876	25	4.09E-02	0.143587159
WBGene00019945	0.291881194	2	1.87E-01	0.016384206
WBGene00019954	-0.222647623	1	1.01E+00	0.142411328
WBGene00019718	-0.084792377	7	1.69E+00	-0.499383985
WBGene00019721	-0.194721954	8	5.40E+00	-0.161691385
WBGene00019719	0.003989643	23	2.65E+00	-0.345076142
WBGene00271788	-0.351105613	3	3.21E+00	0.147324841
WBGene00019720	0.010470765	4	6.26E-01	0.01975439
WBGene00019717	0.069551651	4	4.50E-01	0.111032689
WBGene00022675	0.248494435	35	1.88E-03	0.381249328
WBGene00045248	0.153502848	6	2.50E-01	0.241979054
WBGene00022677	0.319897136	9	3.91E-02	0.230328899
WBGene00195011	0.911873534	2	1.75E-02	0.171381417
WBGene00022678	0.029704385	9	7.26E-01	-0.478734546
WBGene00022679	0.086914477	7	4.08E-01	-0.214195298
WBGene00022680	-0.053773034	11	2.16E+00	-0.163144121
WBGene00022683	-0.171049653	5	2.18E+00	-0.050723865
WBGene00044480	-0.222294733	4	2.31E+00	-0.291556464

WBGene00022682	0.522103053	17	2.28E-04	0.438802424
WBGene00044481	-0.09674154	10	3.05E+00	-0.007833968
WBGene00022681	0.060578235	11	5.57E-01	0.04215905
WBGene00017901	-0.12460395	8	2.84E+00	-0.159352939
WBGene00017902	0.153846123	6	2.49E-01	-0.460661117
WBGene00017900	0.431050452	52	2.33E-08	0.315905607
WBGene00017593	-0.014969676	4	7.22E-01	0
WBGene00017592	-0.773451972	19	5.09E+06	-0.956462486
WBGene00017594	-0.625684075	19	3.07E+05	-0.897686413
WBGene00017591	-0.411616613	9	6.16E+01	-0.526705046
WBGene00000684	-0.742984911	6	1.87E+02	-0.558970658
WBGene00017597	-0.020295173	60	1.58E+02	-0.034833154
WBGene00020084	0.335632716	5	8.12E-02	-0.24983103
WBGene00235120	-0.563647834	5	2.79E+01	-0.627550425
WBGene00017923	0.330600424	15	9.52E-03	0.404933812
WBGene00017922	0.571056142	4	2.71E-02	0.707342671
WBGene00006706	1	5	9.39E-04	1
WBGene00017921	0.383263608	6	4.57E-02	-0.185093915
WBGene00004205	0.072955086	8	4.64E-01	0.037490425
WBGene00000685	-0.020865973	7	9.96E-01	0.119028279
WBGene00017924	0.039825266	2	4.89E-01	0.084541279
WBGene00017925	0.009994609	1	5.11E-01	0.085214507
WBGene00017920	0.32018582	21	3.20E-03	0.457907462
WBGene00017919	0.001964243	9	9.59E-01	0.006661897
WBGene00044482	0.116927343	8	3.10E-01	0.454637133
WBGene00020678	-0.579000523	21	4.16E+05	-0.485853505
WBGene00044620	-0.633204904	11	2.07E+03	-0.523703734
WBGene00020675	-0.242835576	10	1.51E+01	-0.3111176
WBGene00020679	-0.163710864	40	5.21E+03	-0.273016068
WBGene00019543	0.732577804	18	3.43E-06	0.194435501
WBGene00006968	0.149387475	11	1.95E-01	-0.161888367
WBGene00019544	0.35723215	12	1.30E-02	0.611381216
WBGene00019541	0.14355477	5	2.83E-01	-1
WBGene00017116	-0.49735634	7	5.15E+01	-0.831564508
WBGene00001983	0.023847014	16	1.14E+00	-0.143503551
WBGene00017119	-0.814722035	10	7.97E+03	-0.960278026
WBGene00017120	0.863629533	6	1.32E-03	0.865491784
WBGene00017121	1	6	1.93E-05	0.899801599
WBGene00004432	0.802894349	5	3.91E-03	0.442997095
WBGene00021202	0.031644496	6	6.14E-01	-0.048411456
WBGene00021201	0.001872901	4	6.57E-01	-0.254760612
WBGene00021204	0.125120678	8	2.87E-01	0.319314061
WBGene00194835	0.281890762	3	1.63E-01	0.190790656
WBGene00021205	-0.044061451	3	7.56E-01	0.10573652
WBGene00003216	-0.006964344	8	9.65E-01	-0.065785307
WBGene00021200	0.119158951	11	2.78E-01	-0.138115056
WBGene00021199	1	2	8.67E-03	-0.299249288

WBGene00021198	0.092111859	10	3.85E-01	-0.039344847
WBGene00020004	-0.265634529	8	1.04E+01	-0.343880312
WBGene00235374	-0.742808808	7	3.93E+02	-0.70126966
WBGene00020006	-0.025686324	13	1.89E+00	-0.252450504
WBGene00003694	-0.338582778	12	9.23E+01	-0.354074599
WBGene00020003	-0.684213538	12	7.55E+03	-0.411225395
WBGene00001324	-0.200520931	36	7.50E+03	-0.196291851
WBGene00001060	-0.089751202	9	2.41E+00	0.068099189
WBGene00001058	0.197843748	14	8.14E-02	0.110152129
WBGene00044483	-0.268070899	3	2.17E+00	-0.131510225
WBGene00019163	-0.002134604	8	9.23E-01	0.141777862
WBGene00302995	0.028444144	6	6.29E-01	0.24460698
WBGene00019162	0.256843213	6	1.16E-01	0.141367288
WBGene00005842	-0.081106841	8	1.91E+00	-0.043594577
WBGene00005841	-0.177639345	6	2.88E+00	-0.011668046
WBGene00019164	-0.29646897	8	1.37E+01	-0.229705845
WBGene00019165	0.011288797	3	5.83E-01	0
WBGene00019166	-0.148111996	38	1.90E+03	-0.019934162
WBGene00021195	-0.229125384	6	4.21E+00	-0.034486732
WBGene00021196	-0.213067465	5	2.86E+00	-0.053162645
WBGene00021197	-0.085614726	3	9.20E-01	0
WBGene00006217	-0.208181194	6	3.61E+00	-0.073055145
WBGene00006216	-0.111620374	10	3.59E+00	-0.14594192
WBGene00006219	-0.70097991	8	5.61E+02	-0.616341031
WBGene00006218	-0.332842753	5	6.23E+00	-0.249969382
WBGene00006214	0.016403507	8	7.79E-01	0.024561379
WBGene00006211	-0.266519742	7	7.61E+00	-0.030733649
WBGene00020351	-0.222647623	1	1.01E+00	0
WBGene00020354	-0.177083009	3	1.41E+00	0
WBGene00020356	-0.301236067	10	2.87E+01	-0.287356264
WBGene00006206	-0.062337817	4	9.42E-01	-0.154281045
WBGene00020353	-0.135232057	8	3.13E+00	-0.047359581
WBGene00006204	-0.422058669	7	2.76E+01	-0.313747769
WBGene00006202	-0.645139848	3	1.28E+01	-0.096846574
WBGene00006201	0	3	6.15E-01	-0.005049961
WBGene00006203	-0.118930519	2	8.95E-01	-0.021764836
WBGene00021178	-0.010177129	4	7.03E-01	0.098954067
WBGene00006199	-0.168317559	10	6.69E+00	-0.229862843
WBGene00021179	-0.082648738	5	1.23E+00	-0.339757742
WBGene00006212	-0.189527515	7	4.02E+00	-0.090750268
WBGene00021177	-0.216008272	5	2.92E+00	-0.106567843
WBGene00006213	-0.36054422	11	8.19E+01	-0.311371785
WBGene00006208	-0.019574474	11	1.44E+00	0
WBGene00006209	0.025428529	7	6.79E-01	0.278264065
WBGene00021176	0.107049246	6	3.52E-01	0.060400605
WBGene00021180	-0.147917863	8	3.52E+00	-0.000895239
WBGene00021183	-0.383445762	7	2.00E+01	-0.753195496

WBGene00017112	-0.00863973	2	5.88E-01	-0.022839729
WBGene00017113	-0.092469437	3	9.50E-01	-0.145134095
WBGene00017111	0	3	6.15E-01	0
WBGene00017110	0	2	5.69E-01	0.000915181
WBGene00017109	-1	6	1.42E+03	-0.508409516
WBGene00017114	-0.415658529	3	4.35E+00	-0.289716755
WBGene00006207	-0.125803796	5	1.62E+00	0.041814627
WBGene00006038	-0.152652379	8	3.67E+00	-0.03192816
WBGene00006051	0	2	5.69E-01	0
WBGene00006040	-0.548538716	8	1.39E+02	-1
WBGene00003976	-0.006858553	3	6.35E-01	0.057413345
WBGene00005639	-0.008862017	3	6.41E-01	0.000177757
WBGene00005638	-0.000579074	2	5.70E-01	-0.004190375
WBGene00020905	0.087905934	3	4.06E-01	-0.007412861
WBGene00006053	-0.2413742	7	6.18E+00	-0.361492924
WBGene00020906	-0.203281301	6	3.48E+00	-0.054664359
WBGene000220250	-0.175225027	10	7.21E+00	-0.087855555
WBGene00015628	-0.152331763	9	4.53E+00	0.102701338
WBGene00015627	-0.160823961	6	2.54E+00	0.151502373
WBGene00015629	-0.382403629	10	6.98E+01	-0.474205047
WBGene00015626	0.583675441	7	6.68E-03	0.566841518
WBGene00044484	0.055981188	9	5.57E-01	0.109470724
WBGene00003448	-1	4	2.48E+02	-0.438202794
WBGene00015630	-0.544903258	20	1.17E+05	-0.525837363
WBGene00003450	-0.157754708	4	1.61E+00	-0.622429789
WBGene00003446	-1	4	1.21E+03	-1
WBGene00020071	-0.173386645	8	4.44E+00	-0.362578781
WBGene00020072	0	15	1.56E+00	0
WBGene00020070	0	6	7.76E-01	0
WBGene00015331	-0.18768744	10	8.27E+00	-0.169890139
WBGene00015330	0.965490637	11	1.23E-05	0.310656099
WBGene00015326	0.597286607	14	2.46E-04	-0.323073463
WBGene00015327	0.000562421	3	6.13E-01	-0.162170274
WBGene00015329	0.575386416	9	2.99E-03	0.097508291
WBGene00015328	0.262245464	13	3.74E-02	0.23203641
WBGene00014997	-0.581445906	5	3.13E+01	-0.03586026
WBGene00006428	-0.028123194	19	3.62E+00	0.038205996
WBGene00004929	0.079214145	57	6.11E-01	0.105836175
WBGene00016056	0.025383982	7	6.79E-01	0.080676279
WBGene000235380	-0.740352843	2	9.59E+00	-0.968257943
WBGene00016057	-0.0452899	2	6.76E-01	0.056875411
WBGene00016055	-0.078566619	3	8.90E-01	0.089239468
WBGene00016058	-0.957284145	4	1.42E+02	-0.739351672
WBGene00016054	-0.566133104	5	2.83E+01	-0.437048165
WBGene00043147	-0.462892608	6	2.37E+01	-0.018483864
WBGene00016053	0.396597632	8	2.38E-02	-0.325764499
WBGene00002247	0.349464161	46	4.96E-06	-0.003464485

WBGene00020994	-0.171014807	5	2.18E+00	0.050522169
WBGene00020993	-0.050650051	14	3.01E+00	-0.086982696
WBGene00020995	-0.063874617	3	8.30E-01	0.30588529
WBGene00020997	-0.124325993	27	1.02E+02	-0.034537169
WBGene00006586	-0.105409612	6	1.69E+00	-0.223686354
WBGene00195093	-0.31838631	9	2.41E+01	-0.365592372
WBGene00043064	0	2	5.69E-01	0
WBGene00021994	0.000300302	6	7.74E-01	-0.004254176
WBGene00021993	-0.465207804	13	7.59E+02	-0.025749507
WBGene00044346	-0.386400058	4	5.78E+00	-0.519996903
WBGene00021996	-0.026222228	2	6.29E-01	-0.088326072
WBGene00043743	0.034634864	13	8.32E-01	-0.018290001
WBGene00021992	-0.126067462	5	1.63E+00	-0.093681737
WBGene00021999	-0.171108873	7	3.46E+00	-0.12290218
WBGene00022000	0	1	5.26E-01	0
WBGene00006549	0	1	5.26E-01	0
WBGene00022002	0	4	6.64E-01	0
WBGene00021998	0	14	1.44E+00	-0.006248613
WBGene00022003	0	9	9.79E-01	0
WBGene00021997	0	4	6.64E-01	0
WBGene00018124	-0.329675591	10	3.92E+01	-0.223446422
WBGene00018123	-0.001914622	15	1.60E+00	0.002376744
WBGene00018122	-0.24108423	9	1.11E+01	-0.409904004
WBGene00003426	-0.307531171	4	3.72E+00	-1
WBGene00018121	-0.023890924	2	6.23E-01	-0.037246544
WBGene00018130	-0.277400036	33	3.91E+04	-0.251483709
WBGene00018120	-0.757216028	4	4.61E+01	-0.156284936
WBGene00018119	-0.071200905	7	1.51E+00	-0.138922518
WBGene00018118	-0.458099856	9	9.84E+01	-0.641033086
WBGene00018117	-0.337996155	9	2.94E+01	-0.206782815
WBGene00003444	-0.158062644	3	1.29E+00	-0.213417799
WBGene00022707	0.008251352	5	6.80E-01	-0.113103836
WBGene00003468	-0.226183836	4	2.36E+00	-0.238286393
WBGene00022708	0	1	5.26E-01	0.014890617
WBGene00022709	-0.213787961	9	8.41E+00	-0.054044906
WBGene00022710	-0.156281472	8	3.80E+00	-0.088677033
WBGene00003451	0.029468791	2	5.08E-01	-0.031447745
WBGene00022706	-0.061165961	3	8.20E-01	0
WBGene00003452	-0.312294779	4	3.82E+00	-0.429145147
WBGene00022705	-0.399781903	12	2.01E+02	0.06885706
WBGene00003458	0.753812747	4	9.74E-03	-0.187180585
WBGene00021159	-0.046573523	11	1.98E+00	0.173619705
WBGene00021158	-0.097146433	5	1.35E+00	0.048620618
WBGene00021157	1	8	5.24E-05	1
WBGene00021156	0.64685514	11	5.36E-04	1
WBGene00021160	0.619018194	17	4.31E-05	0.529639018
WBGene00021161	0.357180821	5	7.06E-02	0.846116218

WBGene00021155	0.130538349	10	2.53E-01	0.167233143
WBGene00018319	0.195987782	31	1.60E-02	0.063923408
WBGene00018318	0.079259723	8	4.38E-01	0.066681942
WBGene00018317	0.354044406	8	3.52E-02	-0.009287806
WBGene00018321	0.694182388	13	1.03E-04	0.233927897
WBGene00018316	0.692778926	17	1.21E-05	1
WBGene00001243	0.237618858	8	1.02E-01	0.365020573
WBGene00018315	-0.006423833	6	8.13E-01	-0.042184629
WBGene00018314	-0.026700282	2	6.30E-01	-0.049950897
WBGene00018322	-0.265925268	3	2.15E+00	-0.190634319
WBGene00001244	-0.177081355	4	1.79E+00	-0.282939265
WBGene00002032	-0.15037305	9	4.44E+00	0.126568241
WBGene00022775	-0.295223032	6	6.86E+00	0.003340933
WBGene00022776	-0.338478375	6	9.45E+00	-0.584681412
WBGene00022774	-0.10264084	13	5.41E+00	-0.315826775
WBGene00022773	0.004352989	3	6.02E-01	0.344942659
WBGene00022772	-0.006257519	1	5.36E-01	0.013250473
WBGene00022771	-0.038193488	6	1.03E+00	0.160625132
WBGene00194816	0.068773751	6	4.67E-01	0.273335396
WBGene00235383	-0.038285813	7	1.15E+00	-0.001269407
WBGene00022778	-0.366557612	5	7.76E+00	-0.268303285
WBGene00004992	-0.282459886	8	1.21E+01	-0.307220713
WBGene00001223	-0.388041864	9	4.86E+01	-0.269280051
WBGene00021152	-0.039948867	36	3.11E+01	-0.022848253
WBGene00021153	-0.281147998	3	2.31E+00	-0.169948535
WBGene00021154	-0.514794594	3	6.94E+00	-0.382556864
WBGene00021793	-0.537452057	12	1.16E+03	-0.931325446
WBGene00004374	-0.924214254	19	8.91E+07	-0.775274662
WBGene00020435	-0.539051438	18	3.39E+04	-0.42327535
WBGene00020433	-0.076970646	5	1.18E+00	-0.277210895
WBGene00235273	-0.082653783	5	1.23E+00	-0.135384883
WBGene00044499	-0.434739974	3	4.76E+00	-0.3877755
WBGene00015098	-0.081323961	14	4.70E+00	-0.865215673
WBGene00004243	-0.041673043	8	1.33E+00	-0.049457191
WBGene00206473	-0.003401138	2	5.76E-01	-0.003704155
WBGene00015097	0.249374533	3	1.90E-01	-0.061506939
WBGene00006745	0.053528104	61	2.68E+00	0.121812867
WBGene00001411	-0.153782182	15	1.67E+01	0.116798084
WBGene00001093	0.213488015	18	4.13E-02	0.029535695
WBGene00020464	0.016838036	16	1.28E+00	-0.091820582
WBGene00020463	-0.105472728	24	3.71E+01	-0.113186417
WBGene00020462	0.069027345	18	5.64E-01	0.121121161
WBGene00020465	-0.428960322	26	1.84E+05	-0.279652976
WBGene00001439	-0.10552483	67	5.98E+04	-0.14307366
WBGene00016542	0.001260875	3	6.11E-01	0.101008314
WBGene00044125	-0.021261661	6	9.07E-01	-0.024293047
WBGene00044124	0.030564342	2	5.06E-01	0

WBGene00016543	-0.516510737	11	5.20E+02	-0.449028445
WBGene00005090	0	3	6.15E-01	0
WBGene00016541	-0.825561102	6	3.45E+02	-0.378029949
WBGene00005091	-0.579148946	5	3.08E+01	-0.422592502
WBGene00005086	-0.083633491	7	1.67E+00	-0.020908119
WBGene00015253	-0.095865162	3	9.65E-01	0.088173456
WBGene00000817	0.051429496	4	4.98E-01	0.200465311
WBGene00004804	0.069003353	42	8.26E-01	-0.183528032
WBGene00020585	0.786035346	3	1.52E-02	0.555065211
WBGene00000247	0.583573951	17	7.93E-05	-0.025400456
WBGene00044500	0.106527448	5	3.59E-01	0.1519315
WBGene00005083	-0.261351096	7	7.29E+00	-0.120498282
WBGene00016954	-1	13	6.91E+07	-1
WBGene00043065	-0.033911364	7	1.11E+00	-0.055786855
WBGene00016956	-0.988578318	7	3.00E+03	-0.900283989
WBGene00016953	-0.746864242	17	6.93E+05	-0.779684875
WBGene00044501	-0.020361104	10	1.32E+00	-0.072428639
WBGene00016955	-0.665806038	28	2.78E+08	-0.587558017
WBGene00303049	-0.484432073	1	2.17E+00	-0.416779801
WBGene00016951	-0.175293743	13	1.46E+01	-0.258145903
WBGene00019263	0.645971857	18	1.64E-05	0.467793891
WBGene00019264	-0.022390515	10	1.35E+00	0.402444109
WBGene00016667	-0.217782397	8	6.67E+00	0.167605368
WBGene00016665	-0.730933172	6	1.72E+02	-0.264927694
WBGene00016664	-0.189363018	7	4.02E+00	-0.245837467
WBGene00003636	0.330206699	35	1.24E-04	0.265073226
WBGene00016287	-0.019225952	3	6.73E-01	-0.038696778
WBGene00016288	-0.110090895	7	2.09E+00	-0.060315529
WBGene00016286	-0.331159826	8	1.89E+01	-0.18325461
WBGene00016289	0.177874104	6	2.08E-01	0.385492966
WBGene00016291	-0.230791121	14	4.12E+01	-0.231747482
WBGene00015680	0.112998923	22	2.32E-01	0.171813757
WBGene00015539	0.410674927	15	2.77E-03	0.524792195
WBGene00015540	0.30193833	13	2.17E-02	0.017197455
WBGene00015538	0.666732024	13	1.50E-04	0.726045505
WBGene00015541	-0.113425929	28	9.15E+01	-0.184967531
WBGene00004973	-0.213967712	6	3.77E+00	-0.237002258
WBGene00189995	-0.29406181	6	6.81E+00	-0.1049002
WBGene00005728	-0.379294007	9	4.45E+01	-0.114656238
WBGene00005730	0	3	6.15E-01	0.004184999
WBGene00005732	-0.115483213	5	1.52E+00	0.135795292
WBGene00005733	-0.008627798	3	6.40E-01	-0.00246257
WBGene00019155	0.006755919	6	7.38E-01	-0.016882948
WBGene00019154	-0.757765481	20	8.03E+06	-0.719525121
WBGene00019153	-0.041134091	4	8.36E-01	-0.541380054
WBGene00019152	-0.04423628	4	8.51E-01	-0.146855907
WBGene00019151	-0.615647084	17	7.25E+04	-0.83352495

WBGene00019156	0.029418928	13	8.93E-01	0.020441255
WBGene00019257	-0.134000282	8	3.10E+00	0.004112841
WBGene00003019	0.456109441	8	1.38E-02	0.482391468
WBGene00019255	-0.011646192	15	1.86E+00	-0.06464973
WBGene00019296	0.035163179	9	6.87E-01	0.148170751
WBGene00019295	0.865888754	13	9.95E-06	0.85452067
WBGene00002129	0.864575569	8	3.26E-04	0.869674031
WBGene00004494	1	3	7.42E-04	1
WBGene00019297	0.523134389	5	2.40E-02	0.903013335
WBGene00006780	1	167	1.87E-63	0.845625709
WBGene00044502	0.036896893	3	5.17E-01	-0.134591747
WBGene00016722	0.508925555	7	1.24E-02	0.960471362
WBGene00016721	0.457385425	5	3.68E-02	0.298620316
WBGene00004112	0.184226376	31	2.26E-02	0.235870333
WBGene00019205	0.146797485	59	1.54E-02	0.241127359
WBGene00019514	-0.416453424	5	1.07E+01	-0.117271752
WBGene00019515	-0.662438982	10	1.50E+03	-0.587348839
WBGene00019516	-0.447153664	11	2.29E+02	-0.528300392
WBGene00023486	-0.12889484	2	9.30E-01	-0.118784401
WBGene00000535	0.060543539	2	4.51E-01	0.185154274
WBGene00002245	-0.007141934	37	1.10E+01	-0.053881133
WBGene00019750	-0.003433932	2	5.76E-01	0.029459668
WBGene00006974	-0.499368065	17	9.80E+03	0.123659207
WBGene00019751	0.178085483	21	6.13E-02	0.253328013
WBGene00015701	-0.150995777	9	4.47E+00	-0.059104944
WBGene00015703	0.13917137	8	2.53E-01	-0.326926043
WBGene00015702	0.385663909	9	2.02E-02	0.396237206
WBGene00006809	0.422316861	58	5.91E-09	0.459935002
WBGene00015700	-0.085380259	12	3.66E+00	0.076421241
WBGene00016761	-0.167623094	7	3.36E+00	0.305915948
WBGene00016764	0.001387	2	5.66E-01	0.001072645
WBGene00016762	-0.604053239	12	2.72E+03	-0.94377052
WBGene00016760	-0.486513869	12	6.08E+02	-0.454925077
WBGene00016759	-0.299502829	9	1.99E+01	-0.191170418
WBGene00016763	-0.042061631	3	7.49E-01	-0.029138348
WBGene00016758	-0.017973319	6	8.86E-01	0
WBGene00016757	-0.185661602	5	2.40E+00	-0.052135596
WBGene00016756	-0.160530699	10	6.14E+00	-0.293151663
WBGene00016755	-0.002075693	3	6.21E-01	0
WBGene00019058	0	5	7.18E-01	0
WBGene00019057	-0.202248395	7	4.47E+00	0.133253467
WBGene00019059	-0.368140958	4	5.22E+00	-0.021180216
WBGene00044306	-0.484242489	5	1.67E+01	-0.441264068
WBGene00044307	-0.136450139	6	2.12E+00	-0.06192628
WBGene00019060	-0.041644197	13	2.35E+00	-0.177589538
WBGene00019055	-0.067056921	10	2.20E+00	-0.080393266
WBGene00020469	-0.044043849	2	6.73E-01	-0.07222926

WBGene00235303	-0.676634106	1	3.80E+00	-0.921295617
WBGene00003754	-0.306395985	12	6.13E+01	-0.08169059
WBGene00005739	0	1	5.26E-01	0
WBGene00005740	0	6	7.76E-01	-0.049420696
WBGene00005741	-0.031529572	4	7.92E-01	0
WBGene00005742	-0.233907208	6	4.36E+00	-0.096189714
WBGene00000005	-0.666097311	9	7.98E+02	-0.503702277
WBGene00020468	-0.467831791	3	5.56E+00	-0.344439554
WBGene00006416	-0.206857785	12	1.72E+01	-0.238702514
WBGene00005743	-0.279271165	7	8.46E+00	-0.303009493
WBGene00005744	-0.29358673	7	9.53E+00	-0.273616846
WBGene00005735	0	4	6.64E-01	0
WBGene00001853	0.07700003	8	4.47E-01	0.505776384
WBGene00005738	-0.094972608	8	2.16E+00	-0.03362237
WBGene00005737	-0.309897709	8	1.55E+01	-0.058898326
WBGene00005736	-0.833544477	7	8.32E+02	-0.752604503
WBGene00000820	0.478650453	30	5.11E-06	0.23338154
WBGene00022236	-0.149416154	6	2.34E+00	-0.310420228
WBGene00022250	0.529466791	9	4.75E-03	0.352124193
WBGene00022235	0.407091033	4	6.79E-02	0.335352114
WBGene00003082	0.070591214	9	4.81E-01	0.083601793
WBGene00004783	0.844037731	24	7.90E-09	-0.01050042
WBGene00022251	0.282429566	2	1.94E-01	0.841244906
WBGene00003237	0.202616095	3	2.37E-01	1
WBGene00022233	0.37052108	12	1.10E-02	0.416397677
WBGene00219218	-0.277283505	3	2.27E+00	-0.54475037
WBGene00022237	-0.679534255	4	2.99E+01	-0.699279941
WBGene00235289	-0.051922979	1	6.13E-01	-0.064754826
WBGene00045250	-0.128214655	10	4.31E+00	-0.799565564
WBGene00004881	0.127648559	31	1.21E-01	-0.171544348
WBGene00194832	0.5650216	12	9.22E-04	0.34557598
WBGene00022253	0.236995213	17	3.08E-02	-0.209085681
WBGene00000256	0.515664513	6	1.72E-02	0.514443187
WBGene00022240	0.127114135	12	2.44E-01	0.401872127
WBGene00022242	0.100822466	9	3.55E-01	0.138263207
WBGene00005724	0.057177394	5	4.95E-01	-0.002985288
WBGene00022254	0.054783218	11	5.97E-01	0.167116967
WBGene00022232	-0.036198118	12	1.96E+00	-0.275118064
WBGene00022243	-0.1848565	5	2.38E+00	-0.18658928
WBGene00022244	-0.174059756	8	4.47E+00	-0.15387638
WBGene00002033	-0.572506405	8	1.73E+02	-0.21504398
WBGene00022257	-0.171162488	6	2.75E+00	0.180700869
WBGene00022245	0.158548244	9	1.98E-01	0.299123685
WBGene00022246	-0.1861197	13	1.69E+01	-0.228036963
WBGene00043067	-0.992711022	7	3.11E+03	-0.987889984
WBGene00022252	-0.251925084	11	2.26E+01	-0.228026262
WBGene00022247	-0.032031196	18	3.51E+00	-0.014162469

WBGene00043066	-0.358163045	11	7.96E+01	-0.116527351
WBGene00022255	0.102892512	6	3.63E-01	0.271189171
WBGene00022248	0.069844155	8	4.77E-01	0.308634182
WBGene00022231	0.429633787	20	4.47E-04	0.744913659
WBGene00022256	-0.395886397	7	2.22E+01	-0.28286221
WBGene00044350	-0.195057825	11	1.15E+01	-0.145913135
WBGene00004169	-0.392268789	11	1.19E+02	-0.366385314
WBGene00015309	-0.245356658	5	3.53E+00	-0.121359883
WBGene00015311	-0.146002219	7	2.81E+00	0.104978405
WBGene00015308	-0.446712782	8	5.45E+01	-0.264012816
WBGene00015307	-0.313971804	6	7.88E+00	-0.303379474
WBGene00015306	-0.329313468	22	3.37E+03	-0.320147546
WBGene00015305	-0.768415257	11	1.03E+04	-0.858784242
WBGene00235291	-0.017579662	7	9.69E-01	0.096786384
WBGene00015310	0.009710378	17	1.54E+00	0.211618201
WBGene00016610	0.25371659	11	5.65E-02	0.642167627
WBGene00006621	0.258804059	8	8.43E-02	0.290161817
WBGene00016613	0.222604679	14	5.68E-02	0.658258805
WBGene00016611	0.083797071	16	4.29E-01	0.442108882
WBGene00016612	-0.230843845	9	9.99E+00	0.287523589
WBGene00018160	0.427899759	10	9.73E-03	0.383030027
WBGene00018161	-0.095333126	8	2.17E+00	0.834047408
WBGene00001029	0.393930651	12	8.16E-03	0.420431703
WBGene00002274	-0.349804053	7	1.52E+01	0.269473676
WBGene00018170	-0.214809323	2	1.29E+00	-0.184843302
WBGene00018169	-0.07888976	3	8.91E-01	-0.121086606
WBGene00018168	-0.707890543	5	7.12E+01	-0.914060701
WBGene00018162	-0.338569273	3	3.03E+00	-0.417277045
WBGene00235391	-1	3	1.60E+02	-0.389571208
WBGene00018163	-0.995269726	5	4.60E+02	-1
WBGene00018167	-0.191957747	2	1.18E+00	-0.133822122
WBGene00018166	-0.377575177	3	3.64E+00	-0.137528399
WBGene00018165	-0.226808077	5	3.13E+00	0.116144569
WBGene00018164	0.381498488	7	3.56E-02	0.872229557
WBGene00017481	0.643523573	8	2.48E-03	0.576750467
WBGene00017480	0.1932842	5	2.05E-01	0.021194369
WBGene00001090	-0.278948838	34	5.69E+04	0.245189587
WBGene00015278	-0.316322299	10	3.38E+01	-0.433746373
WBGene00194839	-0.05191257	4	8.88E-01	-0.595139631
WBGene00015284	-0.325929453	10	3.76E+01	-0.235601182
WBGene00015279	-0.124026242	7	2.34E+00	-0.090998284
WBGene00015283	0.301019846	16	1.24E-02	0.197339277
WBGene00015282	0.193356481	9	1.40E-01	0.012672702
WBGene00015281	-0.132607004	1	7.76E-01	-0.018036369
WBGene00015280	-0.311360632	18	5.51E+02	-0.24847355
WBGene00001858	-0.340924578	2	2.09E+00	0.11083631
WBGene00044294	-0.273264028	8	1.11E+01	0.022349217

WBGene00022228	0.01961003	12	9.62E-01	0.040495307
WBGene00022230	-0.20390097	7	4.53E+00	-0.159783874
WBGene00004885	-0.254146936	6	5.07E+00	0.337911512
WBGene00003030	0.644160918	19	1.03E-05	0.480264819
WBGene00019259	0.344647887	24	9.66E-04	0.368922281
WBGene00004954	0.237852871	9	8.93E-02	0.285429226
WBGene00015938	0.143434569	20	1.33E-01	0.196252686
WBGene00015927	0.504044643	14	9.52E-04	0.166028807
WBGene00015928	0.077016742	2	4.24E-01	-0.096342622
WBGene00006917	0.173857531	5	2.32E-01	0.327809418
WBGene00015929	-0.520684373	9	1.85E+02	-0.576574364
WBGene00015937	-0.414440493	17	2.27E+03	-0.518290678
WBGene00015930	-0.14979871	5	1.90E+00	-0.088716836
WBGene00015936	0.216387152	4	1.98E-01	0.137396679
WBGene00236786	0.392856943	5	5.60E-02	-0.049920023
WBGene00015935	0.349468226	6	5.87E-02	0.8015368
WBGene00015934	0.500036909	12	2.11E-03	0.53500591
WBGene00015931	0.003811224	9	9.42E-01	-0.205462324
WBGene00015933	0.122313512	4	3.35E-01	-0.067789175
WBGene00015932	0.036551991	3	5.17E-01	0
WBGene00019215	-0.664325846	7	2.05E+02	-0.4473622
WBGene00019214	-0.329419453	5	6.09E+00	-0.419364612
WBGene00019213	-0.314606647	10	3.32E+01	-0.356207942
WBGene00003043	0.12296329	10	2.75E-01	0.670612073
WBGene00020069	-0.118244913	35	3.75E+02	-0.113543334
WBGene00005911	-0.1345184	2	9.50E-01	0.095051021
WBGene00005910	-1	10	6.43E+04	-0.645624289
WBGene00006608	-0.028524212	19	3.65E+00	0.115763643
WBGene00020234	-0.102141727	8	2.31E+00	-0.066195381
WBGene00020235	-0.046746455	37	4.41E+01	0.078826846
WBGene00020686	-0.321782478	10	3.59E+01	-0.416564278
WBGene00020684	0.213893724	8	1.27E-01	0.382076342
WBGene00195050	0.585811102	3	3.90E-02	1
WBGene00004458	0.047042643	23	1.00E+00	-0.111172487
WBGene00020683	0.690271825	12	1.87E-04	0.185437129
WBGene00020682	0.383384486	17	2.48E-03	0.363081843
WBGene00020687	0.219128129	18	3.73E-02	-0.438155873
WBGene00195051	-0.391343469	4	5.95E+00	-0.423969477
WBGene00020680	-0.668988858	8	4.18E+02	-0.505502721
WBGene00020688	-0.085662813	10	2.70E+00	-0.231358259
WBGene00020689	0.278308896	24	4.58E-03	0.585605599
WBGene00002178	0.61258465	14	1.97E-04	0.667968644
WBGene00015202	0.039684994	4	5.32E-01	0.953090188
WBGene00022725	0.041038087	5	5.50E-01	0.004233567
WBGene00044352	-0.406084851	7	2.42E+01	-0.171421397
WBGene00219412	-0.26612519	3	2.15E+00	-0.321801337
WBGene00022726	-0.386565515	2	2.49E+00	-0.173392757

WBGene00003992	-0.5632736	16	1.65E+04	-0.708911259
WBGene00001862	0.465832441	4	4.89E-02	0.596846187
WBGene00022727	0.068693446	14	5.31E-01	0.072589066
WBGene00016085	0.094883568	9	3.77E-01	0.103928487
WBGene00016084	-0.422117449	22	2.52E+04	-0.199920034
WBGene00016083	-0.213255968	7	4.90E+00	-0.966120228
WBGene00016082	0.138874047	2	3.35E-01	0.256397277
WBGene00015553	-0.100097577	12	4.42E+00	0.328233434
WBGene00015552	0.350922374	12	1.41E-02	0.488289859
WBGene00015551	-0.374968816	13	2.22E+02	0.104758451
WBGene00015554	-0.774508822	6	2.37E+02	-0.032177976
WBGene00015555	0.4464352	17	8.39E-04	0.238958542
WBGene00015549	1	2	9.48E-03	0.41984978
WBGene00000585	0.624662408	11	6.97E-04	0.499227272
WBGene00002228	-0.239139163	24	8.54E+02	-0.067294988
WBGene00006572	-0.10615144	1	7.18E-01	-0.027827567
WBGene00003695	-0.074655869	10	2.40E+00	0.142686306
WBGene00005941	-0.001383388	2	5.72E-01	-0.007636775
WBGene00021542	0.009905394	11	1.02E+00	0.253402238
WBGene00005205	-0.207514738	5	2.76E+00	0.023233355
WBGene00005207	-0.207313559	3	1.63E+00	-0.027500236
WBGene00021543	0.643838551	3	2.97E-02	0.298930884
WBGene00021544	1	7	6.66E-05	0.599563453
WBGene00004473	2	2	4.20E-04	2
WBGene00000942	0.868346126	45	1.94E-15	0.495134828
WBGene00022619	0.908416853	2	1.78E-02	0.24339075
WBGene00022620	-0.230821451	10	1.33E+01	0.190517699
WBGene00022618	0.129429667	7	2.87E-01	-0.00237421
WBGene00022617	-0.38017813	7	1.95E+01	-0.566725385
WBGene00022621	-0.010724176	2	5.93E-01	-0.038973522
WBGene00006052	-0.605507998	6	6.79E+01	-0.396402224
WBGene00003527	-0.425570043	16	1.74E+03	-0.255919514
WBGene00016402	-0.161657363	7	3.20E+00	-0.680770585
WBGene00006113	-0.44810163	6	2.12E+01	-0.13794038
WBGene00016403	0	4	6.64E-01	-0.148914945
WBGene00000888	-0.178371972	5	2.29E+00	0.352555004
WBGene00016404	0.121944551	6	3.15E-01	0.38326238
WBGene00016405	0.506399535	64	6.77E-12	0.23046216
WBGene00016400	-0.230969005	3	1.82E+00	0.168738404
WBGene00000687	-0.295230047	7	9.66E+00	-0.155360338
WBGene00016399	-1	6	5.05E+03	-0.774277103
WBGene00016398	-1	10	9.83E+04	-0.507782955
WBGene00016397	-0.224176727	14	3.74E+01	-0.152031579
WBGene00004411	0.03657648	18	1.01E+00	-0.095683542
WBGene00206380	0.606931097	6	8.76E-03	1
WBGene00004822	0.197855157	2	2.67E-01	0.269398769
WBGene00006251	-0.13272188	5	1.70E+00	-0.437594341

WBGene00006069	-0.008078472	4	6.95E-01	-0.008343259
WBGene00235295	-0.003006202	1	5.31E-01	0
WBGene00006109	-0.056486099	3	8.02E-01	-0.057254987
WBGene00016596	-0.264704767	6	5.48E+00	0.118124636
WBGene00016595	-0.609549724	11	1.57E+03	-0.595576927
WBGene00016597	0	1	5.26E-01	0
WBGene00006276	-0.47600503	4	9.55E+00	-0.02440134
WBGene00016598	-0.052037902	3	7.85E-01	-0.09283895
WBGene00016594	-0.107362734	4	1.21E+00	0
WBGene00020043	-0.007778106	4	6.94E-01	-0.097600669
WBGene00020046	-0.580764327	13	3.67E+03	-0.674733272
WBGene00006748	0.221922435	18	3.54E-02	0.708354324
WBGene00020042	-0.383538073	6	1.32E+01	0.149544462
WBGene00006504	-0.210034285	29	1.62E+03	-0.217763871
WBGene00020045	0.104185009	6	3.59E-01	0.579282985
WBGene00020041	-0.100747284	2	8.35E-01	-0.084249063
WBGene00044504	-0.01234022	5	7.78E-01	-0.288850063
WBGene00017053	0.17028597	6	2.20E-01	-0.004710692
WBGene00000292	-0.244370988	9	1.14E+01	0.277127323
WBGene00017052	-0.133691239	4	1.40E+00	-0.296833817
WBGene00001241	0.086401721	5	4.10E-01	0.324523013
WBGene00017054	0.011783628	4	6.22E-01	-0.061124676
WBGene00017051	-0.40558647	5	9.99E+00	-0.29533362
WBGene00000688	-0.458540083	7	3.73E+01	-0.621022444
WBGene00017050	-0.214615483	10	1.11E+01	-0.693911593
WBGene00236806	0.180374775	5	2.22E-01	0.218297966
WBGene00015534	-0.358929957	4	4.96E+00	-0.602631782
WBGene00015535	0.540706061	7	9.53E-03	0.252603209
WBGene00015532	0.015211937	5	6.50E-01	-0.423065374
WBGene00015536	0.072967182	2	4.31E-01	0.327460542
WBGene00015531	-0.329087	16	3.61E+02	-0.057309291
WBGene00015530	-0.412971124	4	6.71E+00	-0.059059385
WBGene00015537	-0.127533448	6	1.99E+00	-0.222732776
WBGene00018345	-0.153016745	5	1.94E+00	-0.221336731
WBGene00018346	0.289700617	12	3.08E-02	0.558558021
WBGene00018347	0.069374498	6	4.65E-01	0.091614717
WBGene00018344	-0.179206135	12	1.21E+01	-0.083312187
WBGene00018348	-0.227524698	3	1.79E+00	-0.506219064
WBGene00001713	-0.667983915	6	1.08E+02	-0.670927882
WBGene00004477	2	3	4.48E-04	0.784286335
WBGene00018349	0.219591318	8	1.21E-01	0.318950387
WBGene00018350	0.027381264	32	2.52E+00	-0.025314366
WBGene00021495	-0.038275769	4	8.23E-01	0.071211594
WBGene00003841	-0.088662507	11	3.27E+00	-0.199862976
WBGene00021496	0.77262813	43	3.74E-13	0.775532292
WBGene00021497	-0.001003983	55	3.64E+01	0.315855237
WBGene00020446	0.018219219	7	7.21E-01	-0.072114974

WBGene00020445	0.011266619	5	6.67E-01	0.108655576
WBGene00020444	-0.126260747	8	2.88E+00	-0.170216634
WBGene00020447	0.499586716	10	4.44E-03	0.010798607
WBGene00016739	0.50780495	19	1.38E-04	0.061490392
WBGene00001187	0.738206019	62	2.40E-17	0.46299452
WBGene00303046	0.206839566	1	2.88E-01	-0.794353433
WBGene00015215	-0.367314319	7	1.75E+01	-0.212762229
WBGene00015214	-0.031670933	9	1.35E+00	-0.481606128
WBGene00006814	0.320080787	81	1.20E-08	0.229160134
WBGene00194883	0.012898352	4	6.18E-01	-0.10405748
WBGene00015216	-0.144296344	1	8.03E-01	-0.004573511
WBGene00015210	-0.579168985	6	5.59E+01	-0.195462045
WBGene00015211	0.174272409	7	1.98E-01	0.438801593
WBGene00015217	1	9	8.96E-07	1
WBGene00017416	-0.919633727	8	4.17E+03	-0.739287493
WBGene00017417	-0.458541674	6	2.29E+01	-0.321983575
WBGene00017418	0.036484198	3	5.18E-01	-0.056389717
WBGene00018903	-0.05557209	7	1.33E+00	0.00533064
WBGene00004044	-0.194956412	8	5.41E+00	-0.289416472
WBGene00018902	0.208152814	4	2.07E-01	-0.156886704
WBGene00018901	-0.085440355	8	1.98E+00	-0.625870298
WBGene00018904	-0.947478964	2	2.11E+01	-0.197064555
WBGene00018900	-0.247083538	44	3.99E+05	-0.794850548
WBGene00001935	-0.001930791	1	5.29E-01	-0.006278176
WBGene00001936	-0.001930791	1	5.29E-01	-0.006278176
WBGene00001934	0.192322958	2	2.73E-01	0.088719122
WBGene00001933	-0.234070678	3	1.85E+00	-0.11350594
WBGene00018899	-0.102662775	5	1.40E+00	-0.13352037
WBGene00018906	-0.441779043	15	1.42E+03	-0.665262256
WBGene00018907	-0.430507176	19	7.55E+03	-0.095924811
WBGene00001624	-0.400173392	17	1.78E+03	-0.308274307
WBGene00019900	0.543481403	8	6.20E-03	-0.041123229
WBGene00019899	0.210857576	3	2.28E-01	-0.104998677
WBGene00004039	-0.235749647	11	1.87E+01	-0.136971976
WBGene00019898	0.453344172	3	7.27E-02	0.14700514
WBGene00019901	-0.288935664	13	6.86E+01	-0.529327476
WBGene00043466	-0.017698006	2	6.09E-01	-0.236026227
WBGene00019902	-0.211893854	63	1.48E+07	-0.139307073
WBGene00019896	-0.090727831	5	1.29E+00	-0.111826367
WBGene00003914	0.18661261	18	6.71E-02	0.378868152
WBGene00000392	0.004058593	1	5.20E-01	0.030683546
WBGene00018636	0.245152777	8	9.56E-02	0.489417578
WBGene00000996	0.38519538	5	5.88E-02	0.621340264
WBGene00018637	0.380381288	6	4.67E-02	0.051075982
WBGene00018638	0.13477626	13	2.12E-01	0.134043394
WBGene00302976	0.732731839	3	1.95E-02	0.392195681
WBGene00018635	1	10	1.23E-05	0.399296554

WBGene00002074	0.698978354	8	1.49E-03	0.594342531
WBGene00043068	-0.261136651	8	9.93E+00	0.099500858
WBGene00017995	0.694451796	3	2.34E-02	0.297313475
WBGene00017991	0.824590199	19	3.36E-07	0.982988515
WBGene00017992	1	12	8.37E-09	1
WBGene00017990	1	6	3.98E-05	1
WBGene00017993	0.873527644	10	7.37E-05	0.805639647
WBGene00017989	0.101824595	11	3.42E-01	0.84503473
WBGene00018468	0.625549734	353	2.56E-75	0.57072399
WBGene00018470	0.182670901	3	2.60E-01	0.165162786
WBGene00018471	0.01248958	8	8.08E-01	0.142207124
WBGene00004046	0.350411189	5	7.37E-02	0.00091647
WBGene00000190	-0.002439966	2	5.74E-01	-0.15158047
WBGene00018472	-0.173602086	28	4.65E+02	-0.285080025
WBGene00003758	0	2	5.69E-01	-0.002952567
WBGene00001975	0.010432402	2	5.47E-01	-0.012624193
WBGene00001584	0.146852443	26	8.98E-02	0.263495378
WBGene00018473	0.633183426	10	1.03E-03	0.957219196
WBGene00015619	0.517726009	14	7.80E-04	0.519587243
WBGene00015620	-0.455032164	27	5.77E+05	-0.433691029
WBGene00002173	-0.236968759	77	3.65E+09	-0.08317128
WBGene00001456	-0.640314303	10	1.18E+03	-0.61054318
WBGene00017996	0.015695322	8	7.84E-01	0.155582792
WBGene00017997	-0.026236257	4	7.69E-01	0.209938213
WBGene00017999	0.075734101	2	4.26E-01	-0.016669614
WBGene00023487	0.003142174	3	6.06E-01	-0.000862401
WBGene00003607	-0.007394645	3	6.36E-01	-0.014876243
WBGene00017998	-0.276532949	13	5.79E+01	0.028829837
WBGene00016846	0.51393815	10	3.79E-03	0.635618455
WBGene00016845	-0.271903768	20	5.12E+02	-1
WBGene00016844	0.018080771	9	8.16E-01	-0.070032008
WBGene00016847	-0.523750963	9	1.90E+02	-0.234284264
WBGene00016843	0.081516448	5	4.23E-01	-0.137906257
WBGene00000551	-0.313826929	23	3.44E+03	-0.299399493
WBGene00016842	0.214782844	10	1.01E-01	0.292221916
WBGene00016848	-0.40284124	8	3.64E+01	-0.319920172
WBGene00016700	-0.686016231	39	9.50E+11	-0.524531462
WBGene00000603	-0.324107936	6	8.50E+00	-0.035618957
WBGene00016701	-1	11	4.73E+05	-0.529697807
WBGene00016702	-0.010991998	11	1.30E+00	0.104274003
WBGene00016699	-0.00244425	7	8.55E-01	0.042682794
WBGene00016698	0.078476891	6	4.34E-01	0.207028647
WBGene00016703	-0.021850153	8	1.11E+00	-0.274458639
WBGene00001827	0.526851448	20	6.47E-05	0.268662811
WBGene00016374	0.40905395	6	3.78E-02	-0.056166992
WBGene00016373	0.273790076	6	1.03E-01	-0.073304153
WBGene00016375	0.149243546	10	2.06E-01	0.303033507

WBGene00016376	0.107127727	19	2.78E-01	0.020536646
WBGene00044325	0.192343081	6	1.87E-01	0.270241532
WBGene00044326	0.222310422	5	1.69E-01	0.010798691
WBGene00016378	0.018722022	13	1.03E+00	-0.060063712
WBGene00004703	0.416948044	13	4.53E-03	0.14921515
WBGene00016379	0.135183512	2	3.40E-01	0.085208381
WBGene00016380	0.063508564	7	4.95E-01	0.263340337
WBGene00016381	0.081632039	3	4.19E-01	0.045896178
WBGene00016382	-0.650491093	8	3.53E+02	-0.905304846
WBGene00016371	-0.324257001	7	1.23E+01	-0.20080255
WBGene00016370	-0.429292562	7	2.93E+01	-0.234943255
WBGene00016383	0.318362646	5	9.08E-02	0.03529975
WBGene00016384	0.180143945	8	1.74E-01	0.270214412
WBGene00004363	-0.388825098	8	3.20E+01	0.360982046
WBGene00020497	-0.700309671	5	6.78E+01	0.332311737
WBGene00015509	-0.22823877	15	5.26E+01	0.273306282
WBGene00015508	0.212587044	5	1.80E-01	0.032020731
WBGene00015510	0.051264573	13	6.63E-01	-0.145398608
WBGene00015511	-0.582976604	8	1.90E+02	-0.890859254
WBGene00015507	0.170370059	19	8.36E-02	0.19426422
WBGene00001453	-0.745335942	5	9.08E+01	-0.106967879
WBGene00020289	-0.463261032	13	7.39E+02	-0.385990675
WBGene00002208	0.000771345	7	8.33E-01	-0.046174495
WBGene00020288	-0.013643597	3	6.55E-01	-0.07884518
WBGene00016957	-0.135835021	57	5.34E+04	-0.048912302
WBGene00016958	-0.327100522	11	5.51E+01	-0.279447153
WBGene00016793	-0.101204092	5	1.38E+00	0.016481871
WBGene00016792	0.004762483	11	1.08E+00	-0.202317117
WBGene00016794	0.23715798	11	6.88E-02	0.295877062
WBGene00003827	0.827954146	16	2.29E-06	0.700752327
WBGene00016791	0.021132803	3	5.56E-01	0.567642138
WBGene00002080	0.11664285	29	1.78E-01	0.134104238
WBGene00219436	-0.056107129	4	9.09E-01	-0.09752832
WBGene00016790	1	3	3.55E-03	1
WBGene00004471	0.694942562	9	8.98E-04	0.334839918
WBGene00016795	0.349923624	2	1.50E-01	0.872875022
WBGene00001535	-0.208293188	20	1.44E+02	-0.041683514
WBGene00000242	-0.717927742	13	2.38E+04	-0.575391791
WBGene00017645	-0.669474453	6	1.09E+02	-0.138327394
WBGene00017644	0.003443941	2	5.61E-01	-0.007577084
WBGene00017643	0.226076349	16	4.21E-02	-0.078004572
WBGene00249815	0.069632222	5	4.57E-01	-0.002358986
WBGene00017642	0.191235564	24	3.53E-02	0.252822379
WBGene00000442	-0.005418687	2	5.81E-01	0.003283853
WBGene00017641	-0.742387845	26	5.02E+08	-0.759682254
WBGene00019020	-0.503775634	13	1.28E+03	-0.19684864
WBGene00019019	-0.04209992	7	1.19E+00	0.001176485

WBGene00019021	-0.110088535	5	1.47E+00	0.250392521
WBGene00003879	-0.030673015	3	7.10E-01	0.144312022
WBGene00006761	0.241708313	11	6.52E-02	0.623149957
WBGene00000183	0.026094342	8	7.13E-01	0.387169023
WBGene00003178	-0.573913237	10	5.69E+02	-0.434046077
WBGene00000689	-0.362018681	12	1.24E+02	-0.391866007
WBGene00004371	0.302129586	47	3.15E-05	0.11348749
WBGene00021541	0.198154326	6	1.79E-01	0.352646358
WBGene00016130	-0.105501401	4	1.20E+00	0.453459884
WBGene00016129	0.09923444	6	3.73E-01	0.982127448
WBGene00016128	0.858882178	8	3.43E-04	0.709859642
WBGene00016124	-0.020763854	13	1.77E+00	0.173964715
WBGene00016125	-0.460076991	4	8.74E+00	-0.289645414
WBGene00003625	0.105160594	27	2.53E-01	-0.317685445
WBGene00016126	-0.608348295	9	4.46E+02	-0.264310216
WBGene00004732	0.439977267	52	1.51E-08	0.304201624
WBGene00044508	0.603798975	14	2.24E-04	0.761772277
WBGene00021537	-0.170079231	6	2.72E+00	-0.320103686
WBGene00021540	0.136660397	5	2.95E-01	0.28210574
WBGene00021538	0.203288789	14	7.52E-02	0.364366959
WBGene00021539	0.41029227	14	3.72E-03	0.458803086
WBGene00021536	0.031087838	6	6.16E-01	0.381540086
WBGene00018360	-0.072911849	6	1.33E+00	0.066445288
WBGene00018359	0.202313771	9	1.28E-01	0.598321277
WBGene00018358	0.329335039	9	3.56E-02	0.271267319
WBGene00249817	0.265822494	5	1.28E-01	0.645917332
WBGene00018361	-0.149308703	3	1.24E+00	0.131003632
WBGene00018357	-0.048032856	12	2.28E+00	0.143749581
WBGene00004979	-0.25746568	4	2.81E+00	0.229821929
WBGene00002162	0.216754909	12	7.80E-02	-0.304500724
WBGene00018356	0.026287497	16	1.10E+00	-0.309471869
WBGene00004057	0.417219758	12	6.06E-03	0.344827204
WBGene00004056	0.002377305	14	1.39E+00	0.22977404
WBGene00004055	0.409903356	16	2.10E-03	0.757078693
WBGene00015048	0.112781054	13	2.87E-01	-0.291202735
WBGene00015049	-0.739067817	9	1.66E+03	-0.465693931
WBGene00015047	-0.898468191	8	3.43E+03	-0.895417011
WBGene00015050	-1	14	3.76E+07	-1
WBGene00015051	-0.099466307	5	1.37E+00	-0.510958638
WBGene00015052	-0.504981545	6	3.23E+01	-0.812354845
WBGene00235296	-0.408913331	4	6.56E+00	-2
WBGene00003961	0.42397998	35	5.48E-06	0.282904471
WBGene00006957	0.212654656	31	9.72E-03	0.223886762
WBGene00044608	0.716395009	3	2.11E-02	0.840818621
WBGene00004101	0.198949204	15	7.25E-02	0.56351644
WBGene00006620	-0.312740003	25	6.86E+03	-0.132801851
WBGene00015572	-0.221600491	3	1.74E+00	0.107140323

WBGene00015573	-0.87706497	7	1.19E+03	-0.307382123
WBGene00003839	-0.246372036	16	9.37E+01	-0.053401823
WBGene00020373	0.444281732	5	4.01E-02	0.32706353
WBGene00020374	0.362102414	2	1.43E-01	0.501224318
WBGene00003656	0.225486395	45	1.17E-03	-0.045927041
WBGene00235275	0.305190032	4	1.20E-01	0.165022052
WBGene00020372	-0.455211607	12	4.08E+02	-0.173244216
WBGene00019507	2	4	6.17E-05	2
WBGene00006930	0.231708711	30	6.28E-03	0.40905209
WBGene00019508	0.109750027	6	3.45E-01	0.049918451
WBGene00019506	-0.468190711	5	1.50E+01	-0.140028163
WBGene00044510	0.237672999	11	6.84E-02	0.734088335
WBGene00044509	0.351960333	3	1.17E-01	0.603382913
WBGene00019509	0.980630134	10	2.28E-05	-0.134481541
WBGene00019510	0.734826355	9	6.01E-04	0.297942875
WBGene00000923	1	8	4.50E-05	0.650932397
WBGene00019504	0.516153219	12	1.72E-03	0.914398182
WBGene00019503	0.292898057	18	9.80E-03	0.148986681
WBGene00018072	0.239216883	12	5.86E-02	0.845298226
WBGene00018071	-0.116475904	2	8.87E-01	-0.289404354
WBGene00018070	-0.167368271	4	1.70E+00	-0.047916963
WBGene00006914	-0.655666333	15	3.83E+04	-0.923560583
WBGene00018073	-0.606700623	34	2.31E+09	-0.770573585
WBGene00018069	-0.941367727	4	1.29E+02	-0.614572582
WBGene00018068	-0.125267127	5	1.62E+00	-0.133851894
WBGene00001903	-0.008572585	1	5.40E-01	-0.019529271
WBGene00001904	-0.008572585	1	5.40E-01	-0.019529271
WBGene00003099	-0.04284407	2	6.70E-01	0.198385764
WBGene00001905	0.059115997	2	4.54E-01	0.181208169
WBGene00001906	0.132849939	5	3.03E-01	-0.024536865
WBGene00001907	-3.38E-05	1	5.26E-01	-0.000753891
WBGene00001908	-3.38E-05	1	5.26E-01	-0.000753891
WBGene00017544	-0.474957765	11	3.18E+02	-0.349540519
WBGene00017543	-0.167444324	6	2.67E+00	-0.095890304
WBGene00017542	-0.209572403	4	2.15E+00	-0.129199784
WBGene00194833	-0.480397782	3	5.90E+00	-0.286856704
WBGene00235282	-0.528926749	1	2.47E+00	-0.27163828
WBGene00017541	-0.023649271	1	5.64E-01	-0.022972545
WBGene00195009	-1	2	6.30E+01	-0.376389279
WBGene00017540	-0.364209457	3	3.41E+00	-0.221037245
WBGene00017539	-0.248536148	4	2.67E+00	-0.326660222
WBGene00000690	-0.409871121	6	1.60E+01	-0.81985844
WBGene00044953	0.391402919	3	9.73E-02	-0.582366352
WBGene00017072	0.238781718	2	2.29E-01	0.005584102
WBGene00005019	0.322744703	11	2.49E-02	0.29944811
WBGene00017079	0.17108659	13	1.29E-01	0.419377209
WBGene00017071	-0.550387906	36	1.17E+09	-0.317807199

WBGene00017073	-1	2	1.05E+02	-0.339507967
WBGene00017074	1	6	1.33E-04	1
WBGene00017075	1	9	1.59E-06	0.444492459
WBGene00017070	0.538775402	4	3.25E-02	1
WBGene00017076	0.278393274	2	1.97E-01	0.308348328
WBGene00017077	-0.333959176	8	1.94E+01	0.321573509
WBGene00017078	0.008337825	11	1.04E+00	0.477298731
WBGene00017069	0.161389606	3	2.87E-01	0.267953595
WBGene00019791	0.353077962	7	4.51E-02	0.395397297
WBGene00019788	-0.000235316	7	8.40E-01	8.78E-05
WBGene00019792	-0.219074996	19	1.36E+02	-0.059130535
WBGene00020825	0.216336107	7	1.40E-01	0.222906357
WBGene00020826	-0.017950825	3	6.69E-01	-0.02815246
WBGene00020827	0.799551643	17	1.93E-06	-0.013787505
WBGene00020824	0.686140115	15	3.96E-05	0.978783682
WBGene00020138	0.090752796	7	3.95E-01	0.3836294
WBGene00020139	-0.067180826	10	2.21E+00	-0.163385049
WBGene00006374	-0.160784542	8	3.96E+00	-0.509324095
WBGene00020140	-0.135953728	6	2.12E+00	0.216851903
WBGene00006220	-0.216225445	10	1.13E+01	-0.622701279
WBGene00003837	-0.062377338	20	7.93E+00	-0.058041953
WBGene00016181	0.207085906	6	1.68E-01	-0.159866677
WBGene00004995	0.01404408	7	7.46E-01	0.361384236
WBGene00001956	0.009445655	4	6.30E-01	0.412842391
WBGene00004993	-0.014213779	5	7.87E-01	-0.194727504
WBGene00016180	-0.148559692	2	1.00E+00	-0.112454242
WBGene00016179	-0.3619576	2	2.26E+00	-0.202358279
WBGene00005670	-0.082200901	4	1.05E+00	-0.189553462
WBGene00016182	-0.206339761	13	2.22E+01	-0.239545068
WBGene00001566	0.400488071	11	9.93E-03	0.000908673
WBGene00016178	0.11984163	6	3.20E-01	-0.129200726
WBGene00016177	0.026152569	3	5.43E-01	0.320520013
WBGene00006450	0.024868231	26	1.95E+00	0.043118348
WBGene00003224	0.233397699	10	8.20E-02	-0.141322134
WBGene00044001	0.287240284	5	1.11E-01	-0.114682108
WBGene00001051	0.134229041	2	3.41E-01	0.084181754
WBGene00015650	-0.022708845	67	3.57E+02	-0.162619906
WBGene00002043	0.040454366	12	7.37E-01	-0.008100191
WBGene00022004	0.118834173	10	2.88E-01	0.52719918
WBGene00022007	-0.00986407	4	7.02E-01	0.02671379
WBGene00022006	-0.176614469	4	1.79E+00	0
WBGene00022008	-0.204880062	4	2.09E+00	-0.268932009
WBGene00022005	-0.575008095	4	1.66E+01	-0.119625913
WBGene00022010	0.362606248	35	4.22E-05	0.164920019
WBGene00022011	0.760096406	4	9.41E-03	0.242098216
WBGene00044511	-0.325353901	5	5.94E+00	0.227692115
WBGene00022012	-0.334983718	7	1.34E+01	0.152901215

WBGene00235290	0.157038091	3	2.93E-01	-0.040151595
WBGene00018335	-0.005553359	3	6.31E-01	0.003629551
WBGene00235280	-0.198055469	3	1.56E+00	-0.146958548
WBGene00018334	-0.19659443	8	5.50E+00	-0.0085317
WBGene00018333	-0.055857334	2	7.04E-01	-0.040420636
WBGene00018336	-0.201586024	7	4.45E+00	-0.465847023
WBGene00018332	0.006847562	1	5.16E-01	-0.005606819
WBGene00018337	0.093028834	2	3.99E-01	-0.040332747
WBGene00003034	-0.019337188	18	2.79E+00	-0.042069067
WBGene00195046	0.183744057	2	2.82E-01	-0.789027833
WBGene00006483	0.406053786	46	4.33E-07	0.255922721
WBGene00018338	1	6	4.27E-04	0.971075945
WBGene00016767	0.051552537	5	5.14E-01	0.340953549
WBGene00016768	-0.062912177	5	1.08E+00	-0.077489871
WBGene00016769	0.020016531	11	9.01E-01	0.195261205
WBGene00016766	0.208914103	2	2.56E-01	0.62126082
WBGene00235271	-0.396712679	4	6.13E+00	-0.454805698
WBGene00016765	-0.296401633	9	1.93E+01	-0.228309794
WBGene00016770	-0.018397261	2	6.10E-01	0.046534854
WBGene00000397	-0.488995938	28	2.34E+06	-0.685612826
WBGene00255375	-0.083056416	6	1.43E+00	-0.53498671
WBGene00017236	-0.167492654	2	1.08E+00	-0.092429291
WBGene00017237	-0.042511521	20	5.35E+00	-0.032543819
WBGene00017238	0.058318338	2	4.55E-01	-0.016383237
WBGene00002028	0.215836443	11	8.85E-02	0.298202849
WBGene00000994	0.215244202	21	2.83E-02	0.271716658
WBGene00019230	-0.125543516	7	2.37E+00	-0.089448595
WBGene00019231	-0.432496641	8	4.78E+01	-0.795065231
WBGene00004052	-0.069807968	7	1.49E+00	0.195890242
WBGene00019229	-0.245126708	8	8.58E+00	-0.103912792
WBGene00019228	-0.33799619	4	4.41E+00	-0.345540271
WBGene00009014	0.282898092	3	1.62E-01	0.000762487
WBGene00009006	0.341231961	6	6.24E-02	0.785169987
WBGene00009007	0.339294932	11	2.05E-02	0.733885529
WBGene00009008	-0.075921045	17	6.72E+00	-0.356417031
WBGene00009010	0.108922834	11	3.14E-01	0.259842596
WBGene00009009	-0.001701715	1	5.29E-01	0.078905208
WBGene00009013	0.068436574	3	4.45E-01	0.435180803
WBGene00009011	0.110878233	8	3.28E-01	0.411217135
WBGene00009012	-0.123340447	16	1.26E+01	0.116167955
WBGene00008972	-0.341302745	9	3.04E+01	-0.356349613
WBGene00004051	0.046903187	15	7.56E-01	0.007597518
WBGene00008968	0.465305482	5	3.50E-02	0.465790121
WBGene00303015	0.24146865	8	9.89E-02	0.688878289
WBGene00002222	0.703066428	17	1.01E-05	0.854987731
WBGene00008969	-0.497982775	8	8.72E+01	-0.135619114
WBGene00008970	-0.222305015	14	3.64E+01	-0.094297389

WBGene00008971	-0.224083983	9	9.33E+00	0.13312238
WBGene00007900	0.062779257	20	6.59E-01	-0.089879478
WBGene00194651	0.234076184	7	1.21E-01	0.229575609
WBGene00007901	-0.087193306	5	1.26E+00	-0.128358114
WBGene00044239	0.348628354	2	1.50E-01	-0.131258286
WBGene00005698	-0.05179041	3	7.84E-01	-0.042430671
WBGene00007898	-0.163753882	6	2.60E+00	0.282814903
WBGene00007897	0.024206195	5	6.13E-01	-0.407072291
WBGene00001366	-0.138385271	35	7.34E+02	0.225045913
WBGene00012118	-0.561823953	18	5.12E+04	-0.697131733
WBGene00045183	-0.670861459	4	2.85E+01	-0.230727001
WBGene00012119	-0.1300969	3	1.13E+00	-0.35432748
WBGene00012120	-0.476810974	7	4.34E+01	-0.326206664
WBGene00000691	-0.035540199	5	9.04E-01	0.022088424
WBGene00000594	-0.114168533	5	1.51E+00	0.174543545
WBGene00012121	0.238728478	36	2.28E-03	0.220400706
WBGene00012122	0.261464192	3	1.79E-01	0.233639831
WBGene00206515	0.277501521	3	1.66E-01	0.176342405
WBGene00011706	-0.021758127	6	9.11E-01	0.03577238
WBGene00011707	-0.532008008	3	7.52E+00	-0.174249897
WBGene00000692	0.007433664	9	9.08E-01	-0.160512371
WBGene00001132	0.188367466	24	3.77E-02	-0.104359493
WBGene00011708	-0.010334985	1	5.43E-01	-0.026939785
WBGene00007492	-0.129972504	15	1.16E+01	-0.104329105
WBGene00007493	-0.284348607	9	1.71E+01	-0.113757259
WBGene00007494	-0.198901806	8	5.61E+00	-0.262730586
WBGene00006409	-0.743851213	17	6.58E+05	-0.783672431
WBGene00007496	-0.924205889	6	7.15E+02	-0.38088803
WBGene00007497	-0.217821494	2	1.31E+00	-0.172693783
WBGene00007495	-0.300475572	9	2.01E+01	-0.250504194
WBGene00003864	-0.170663188	15	2.17E+01	-0.704559684
WBGene00005007	0.381153628	9	2.11E-02	0.155930636
WBGene00007760	0.242528208	4	1.71E-01	0.665334676
WBGene00007761	0.1653739	27	5.24E-02	0.158645852
WBGene00007762	0.137026231	7	2.70E-01	0.14520358
WBGene00007763	0.408257176	13	5.10E-03	0.241564149
WBGene00007764	0.012262667	26	2.68E+00	0.184644674
WBGene00007765	0.16296949	1	3.27E-01	0.699546482
WBGene00004307	0.208737319	9	1.20E-01	0.305271026
WBGene00219476	-0.026549671	2	6.29E-01	0.098849306
WBGene00008363	0.36637738	7	4.04E-02	1
WBGene00008362	1	13	3.56E-07	0.963618608
WBGene00255595	1	5	6.18E-04	0.802329371
WBGene00008364	0.140684552	4	3.02E-01	0.268262903
WBGene00008365	-0.548948885	13	2.38E+03	0.034298727
WBGene00008366	0.181019176	19	6.83E-02	0.209127202
WBGene00008272	-0.339689767	7	1.40E+01	0.230517205

WBGene00008271	-0.154880964	6	2.43E+00	-0.026311904
WBGene00008273	-0.069875027	8	1.72E+00	0.217237771
WBGene00008274	0.672254838	35	1.42E-09	0.559046794
WBGene00000693	0.761957491	5	5.09E-03	0.577851177
WBGene00008275	0.215883062	4	1.98E-01	0.529140268
WBGene00000266	0.410266528	7	2.81E-02	0.491604909
WBGene00008277	-0.184845616	21	1.15E+02	-0.081559564
WBGene00008285	0.441940661	4	5.59E-02	0.394355929
WBGene00006852	1	8	2.52E-06	1
WBGene00044241	-0.116839088	6	1.84E+00	-0.218895174
WBGene00008280	-0.16416183	10	6.39E+00	0.332428487
WBGene00008281	-0.045131564	4	8.55E-01	0.367917563
WBGene00008283	-0.021829727	15	2.18E+00	0.127627594
WBGene00023424	0.015288471	4	6.10E-01	-0.079112883
WBGene00008284	-0.036303524	9	1.41E+00	-0.107552533
WBGene00013516	-0.000323091	5	7.19E-01	-0.000211288
WBGene00013515	-0.359669112	4	4.98E+00	-0.427948927
WBGene00013514	-0.34138279	3	3.07E+00	-0.006577328
WBGene00003610	0.341560118	15	8.04E-03	0.766722149
WBGene00013880	0.458226509	8	1.35E-02	0.475400543
WBGene00013881	0.348410136	10	2.32E-02	0.018148721
WBGene00006663	0.315104473	13	1.82E-02	0.292705683
WBGene00013882	0.474929522	12	2.91E-03	0.387106197
WBGene00003066	0.179922402	3	2.63E-01	0.199473353
WBGene00303009	-0.256500905	5	3.80E+00	0.173292039
WBGene00002046	0.517029163	8	7.90E-03	0.027943733
WBGene00007223	0.327641246	4	1.06E-01	0.352573796
WBGene00007221	0.414209162	12	6.30E-03	0.228250214
WBGene00007222	0.015565049	11	9.50E-01	0.006344059
WBGene00219207	0.027592986	1	4.86E-01	0.009727201
WBGene00001413	0.046922229	7	5.68E-01	0.227457765
WBGene00000120	0.933168996	4	3.57E-03	0.817436792
WBGene00006438	-0.053552166	26	1.41E+01	0.042176477
WBGene00009073	-0.085252628	10	2.69E+00	-0.333175167
WBGene00000906	-0.126537136	32	2.79E+02	-0.292079814
WBGene00001444	0.108915122	11	3.14E-01	-0.373419812
WBGene00009078	0.476185423	3	6.53E-02	-0.021236579
WBGene00000121	0.140612663	6	2.75E-01	-0.183467295
WBGene00009075	-0.391448331	7	2.14E+01	-0.601164158
WBGene00009077	0.031264911	4	5.57E-01	-0.046881885
WBGene00003958	-0.811887303	21	5.25E+07	-0.71729055
WBGene00003957	-0.565853831	20	1.77E+05	-0.278239927
WBGene00235302	-0.14330873	3	1.21E+00	-0.290969685
WBGene00007411	0.056404059	2	4.59E-01	0.139706039
WBGene00008113	1	3	2.05E-03	1
WBGene00045078	0.039496849	7	6.04E-01	0.189459817
WBGene00006941	0.497088057	48	4.12E-09	0.79758478

WBGene00008114	0.527007129	8	7.21E-03	-0.219269234
WBGene00008110	0.558759466	14	4.30E-04	0.170318168
WBGene00008111	-0.499980363	10	2.53E+02	-0.198240257
WBGene00012428	-0.006573679	17	2.04E+00	0.009380165
WBGene00004281	-0.409777349	7	2.49E+01	-0.123701199
WBGene00012429	-0.102740859	7	1.96E+00	-0.542421857
WBGene00012431	-0.151530867	4	1.55E+00	0.05011093
WBGene00012432	-0.497672297	10	2.47E+02	-0.291848718
WBGene00012433	-0.070271301	4	9.85E-01	0.065231802
WBGene00012434	-0.069771362	3	8.54E-01	0.564317848
WBGene00000694	0.355381927	3	1.15E-01	-0.050858898
WBGene00012435	0.116309554	9	3.04E-01	-0.407499549
WBGene00077756	0.452221682	4	5.28E-02	1
WBGene00012436	0.066344408	12	5.30E-01	-0.19450628
WBGene00012437	0.198129883	24	3.00E-02	0.46445382
WBGene00010410	-0.420257519	6	1.73E+01	-0.260468186
WBGene00008778	-0.200939136	5	2.65E+00	-0.071883573
WBGene00009871	-0.001990096	2	5.73E-01	0.017225105
WBGene00009872	-0.130213366	2	9.35E-01	0.029409844
WBGene00009873	-0.047938275	4	8.69E-01	-0.064919997
WBGene00009874	-0.090124199	4	1.10E+00	-0.106430095
WBGene00009875	-0.781095284	8	1.17E+03	-0.072295251
WBGene00009876	-0.641883044	4	2.42E+01	-0.116960573
WBGene00009877	-0.230289398	10	1.32E+01	-0.112767652
WBGene00009878	0.070588719	9	4.81E-01	-0.038084886
WBGene00004463	-0.047608878	13	2.55E+00	0.035778772
WBGene00009879	0.166230978	6	2.27E-01	0.1007509
WBGene00009880	0.57041917	5	1.77E-02	0.704484128
WBGene00009881	0.350373478	4	9.33E-02	0.835646824
WBGene00009882	0.146702128	4	2.92E-01	0.227483809
WBGene00009883	-0.024145262	4	7.60E-01	0.427939213
WBGene00009884	-0.56490129	26	5.69E+06	-0.785927638
WBGene00011855	-0.029711079	3	7.07E-01	0.011642527
WBGene00011856	-0.264404199	7	7.48E+00	-0.074575623
WBGene00011857	-0.040739355	8	1.32E+00	-0.112318639
WBGene00303026	0.070123445	3	4.42E-01	0.22952597
WBGene00011858	0.541594687	7	9.46E-03	0.315784839
WBGene00011859	0.916688771	3	8.21E-03	-0.326869115
WBGene00006931	0.323494891	13	1.62E-02	-0.196753125
WBGene00011860	0.411904037	4	6.61E-02	0.026244367
WBGene00007505	-0.054018222	68	2.81E+03	0.13049164
WBGene00007506	-0.007859019	2	5.86E-01	-0.016286427
WBGene00007507	-2	10	7.67E+08	-1
WBGene00007508	-0.929972638	12	1.73E+05	-0.505590226
WBGene00007509	-1	9	4.52E+04	-0.910938102
WBGene00007511	-0.038304644	3	7.36E-01	-0.135150905
WBGene00000911	0.041784135	33	1.69E+00	0.232670654

WBGene00000695	0.060778658	8	5.19E-01	0.178383881
WBGene00010147	-0.439493427	9	8.16E+01	-0.082577111
WBGene00010148	-0.360846691	12	1.23E+02	-0.288738835
WBGene00010150	-0.073252767	28	3.09E+01	-0.097170156
WBGene00010149	-0.228420677	3	1.80E+00	-0.41821858
WBGene00010152	-0.413059053	14	5.82E+02	-0.341277725
WBGene00010153	-0.476248643	4	9.57E+00	-0.71950897
WBGene00010316	0.049202244	20	8.63E-01	0.055254224
WBGene00010317	0.498165536	11	3.12E-03	0.498766436
WBGene00009544	0.646525719	5	1.08E-02	0.345616317
WBGene00002012	1	7	1.07E-04	0.217631687
WBGene00002013	0.609463456	2	5.56E-02	0.456575265
WBGene00009541	-0.118380135	14	8.05E+00	0.143424694
WBGene00000775	-0.046560171	3	7.65E-01	0.06927043
WBGene00009542	0.551041432	26	3.33E-06	0.451403675
WBGene00009543	0.218827195	11	8.55E-02	0.085108127
WBGene00006949	0.391715695	3	9.72E-02	0.173580102
WBGene00000563	0.57299636	9	3.06E-03	0.661770617
WBGene00007887	-0.332266415	14	1.80E+02	0.031128071
WBGene00005665	-0.305279976	7	1.05E+01	-0.241013728
WBGene00005664	-0.075829399	3	8.78E-01	-0.009166348
WBGene00005669	-0.009268977	2	5.89E-01	0.002356155
WBGene00005666	-0.784677088	4	5.38E+01	-0.517632226
WBGene00005667	-0.012932849	2	5.98E-01	-0.045473612
WBGene00007885	-0.725016032	13	2.62E+04	-0.38005764
WBGene00007888	0	2	5.69E-01	-0.00571019
WBGene00007886	-0.153808395	6	2.42E+00	-0.002364223
WBGene00007883	0.073136336	2	4.30E-01	0.168566875
WBGene00007882	0.300848127	8	5.74E-02	0.550562408
WBGene00007890	-0.357347018	4	4.91E+00	-0.183637167
WBGene00007881	0	2	5.69E-01	-0.00741212
WBGene00007880	0.002436485	3	6.08E-01	0.007492822
WBGene00001239	0.507430271	5	2.66E-02	0.615885543
WBGene00001245	0.12710803	4	3.26E-01	0.136808313
WBGene00010175	0.051471261	4	4.98E-01	-0.082014493
WBGene00001403	0.803720008	19	4.99E-07	0.204536864
WBGene00011456	-0.518523637	73	1.89E+17	-0.490903623
WBGene00011454	0.218061901	22	2.38E-02	0.084807851
WBGene00000696	0.33006563	8	4.39E-02	0.015725617
WBGene00003808	-0.047794024	31	2.23E+01	-0.022471662
WBGene00009186	-0.548425678	5	2.53E+01	-0.264286083
WBGene00009185	-0.704367849	16	1.65E+05	-0.445237377
WBGene00005003	-0.242029525	5	3.46E+00	-0.165753444
WBGene00009184	-0.26447733	6	5.47E+00	-0.276735663
WBGene00009183	-0.062812614	9	1.84E+00	0.231418534
WBGene00000002	-0.163332935	5	2.07E+00	-0.006378657
WBGene00001249	-0.037515071	20	4.84E+00	-0.162756158

WBGene00185095	-1	3	7.35E+01	-2
WBGene00185096	-0.610030953	1	3.13E+00	-0.57848937
WBGene00185116	-1	2	3.69E+01	-0.604929233
WBGene00194867	-2	2	5.74E+02	-1
WBGene00003151	-0.132508024	31	2.76E+02	-0.079483645
WBGene00000953	-0.402365419	15	7.71E+02	-0.469315539
WBGene00010278	0.189696561	3	2.52E-01	-0.099648652
WBGene00010272	0.332923292	11	2.21E-02	0.147787948
WBGene00010273	-0.403042119	6	1.52E+01	-0.074031188
WBGene00044107	-0.612673821	4	2.05E+01	-0.611224073
WBGene00010274	0	1	5.26E-01	-0.00979768
WBGene00010277	0.001929632	2	5.65E-01	-0.021669008
WBGene00010275	0.191706992	11	1.18E-01	0.213977835
WBGene00003627	0.204151761	43	3.56E-03	0.286390737
WBGene00002091	0.092485988	2	4.00E-01	0.072799414
WBGene00002090	-0.237752475	4	2.52E+00	-0.200619654
WBGene00014240	-0.244624865	3	1.94E+00	-0.018186806
WBGene00014241	-0.394021463	5	9.27E+00	-0.465396833
WBGene00003463	-0.789370094	5	1.21E+02	-0.5199698
WBGene00014242	-0.838175055	2	1.39E+01	-0.734543038
WBGene00006664	-0.100168189	9	2.68E+00	-0.003061808
WBGene00014243	0.152934226	48	2.10E-02	0.170315926
WBGene00010484	0.481094591	3	6.38E-02	0.126102419
WBGene00010485	0.155447346	4	2.78E-01	-0.174707273
WBGene00003629	-0.440558821	10	1.32E+02	-0.439260272
WBGene00010486	-0.076065507	7	1.57E+00	-0.236558914
WBGene00003728	0.32988258	11	2.29E-02	0.702270019
WBGene00303043	0.340298116	1	1.95E-01	0.894783814
WBGene00003690	0.301263312	6	8.38E-02	0.272541816
WBGene00000509	-0.22828671	20	2.15E+02	-0.349341872
WBGene00007796	-0.659692161	4	2.67E+01	-0.147768058
WBGene00001607	-1	15	3.91E+08	-1
WBGene00007794	-0.460221261	5	1.43E+01	-0.935333155
WBGene00007792	-1	10	5.35E+05	-2
WBGene00007793	-0.853969834	9	5.29E+03	-1
WBGene00007795	-1	10	1.13E+05	-0.980526935
WBGene00003687	-0.082812669	27	3.44E+01	-0.407330021
WBGene00011749	-0.017943964	1	5.55E-01	-0.012685868
WBGene00003466	-0.553302933	4	1.47E+01	-0.550208927
WBGene00003465	-0.222666175	4	2.31E+00	-0.53498024
WBGene00000301	0.02292021	5	6.18E-01	-0.12712682
WBGene00011747	0.056027585	9	5.57E-01	-0.05560746
WBGene00011746	-0.228866678	12	2.28E+01	-0.072507211
WBGene00011745	-0.291884002	10	2.59E+01	-0.11837682
WBGene00011744	0.008581372	3	5.90E-01	0.000991313
WBGene00004031	0.140291516	15	1.79E-01	0.456679178
WBGene00011743	0.042903219	3	5.02E-01	-0.046930916

WBGene00001396	-0.243222819	11	2.04E+01	0.132302211
WBGene00001395	0.403381878	8	2.24E-02	0.642460709
WBGene00012340	-0.01577505	12	1.51E+00	-0.018090668
WBGene00001188	0.027986606	7	6.65E-01	0.36812351
WBGene00012341	0.225163143	29	8.59E-03	0.447059186
WBGene00000697	0.434346252	8	1.69E-02	0.684580505
WBGene00012342	0.159863208	23	7.86E-02	0.282117927
WBGene00002204	-0.61569208	17	7.25E+04	-1
WBGene00003467	-0.007393021	4	6.92E-01	-0.154028476
WBGene00003425	-0.781106348	4	5.28E+01	-0.58234352
WBGene00002206	-0.573931038	15	1.09E+04	-0.450964057
WBGene00003449	-0.409968432	5	1.03E+01	-0.308795431
WBGene00045180	-0.18650379	4	1.89E+00	-0.076771472
WBGene00010633	-0.841473054	5	1.69E+02	-0.321586045
WBGene00010634	-0.145754824	10	5.22E+00	0.017789135
WBGene00010635	-0.811220228	4	6.24E+01	0.25344191
WBGene00010636	-0.548036135	9	2.43E+02	-0.361375858
WBGene00006039	-0.724362141	8	6.95E+02	-0.354190737
WBGene00006050	-0.724846679	3	1.87E+01	-0.224198231
WBGene00010637	-0.002886351	3	6.23E-01	0.019648318
WBGene00003787	-0.035018749	11	1.73E+00	-0.260989418
WBGene00010638	0.040633155	10	6.77E-01	0.282666805
WBGene00010640	0.717987139	3	2.09E-02	0.334764393
WBGene00303023	0.594252342	2	5.89E-02	-0.061997436
WBGene00010639	0.723643004	2	3.60E-02	-0.24909906
WBGene00003603	0.425005607	8	1.84E-02	0.572437133
WBGene00009320	0.233887505	6	1.38E-01	0.166646883
WBGene00009319	0.176523253	9	1.66E-01	0.639952343
WBGene00009324	-0.122606712	16	1.24E+01	0.100957516
WBGene00009321	-0.37002914	6	1.19E+01	-0.518493989
WBGene00006056	-0.290021054	8	1.29E+01	-0.38173835
WBGene00003464	-0.562806287	4	1.55E+01	-0.428425091
WBGene00006049	-0.212965771	2	1.28E+00	-0.216378875
WBGene00009322	-0.018908815	13	1.73E+00	0.277633206
WBGene00009323	-0.318063817	4	3.94E+00	-0.330910418
WBGene00009133	-0.058768455	26	1.61E+01	-0.42692526
WBGene00001113	0.391832014	13	6.38E-03	0.20170793
WBGene00009131	0.293977575	6	8.84E-02	0.237219449
WBGene00009132	0.667841914	9	1.18E-03	0.513545529
WBGene00004974	0.560416545	2	6.70E-02	0.589971822
WBGene00001650	0.442516864	68	8.32E-11	0.266928207
WBGene00011762	-0.207745267	7	4.68E+00	-0.026408403
WBGene00002193	-0.668589378	10	1.61E+03	-0.707711632
WBGene00008154	-0.127548727	7	2.41E+00	-0.253802176
WBGene00008155	-0.044634072	3	7.58E-01	-0.029362336
WBGene00008153	-0.371762487	8	2.74E+01	-0.151794208
WBGene00008152	-0.274352144	5	4.26E+00	-0.542919872

WBGene00044240	0.077719353	4	4.30E-01	-0.764731308
WBGene00000964	0.128610184	8	2.78E-01	-0.281799282
WBGene00008151	0.737866449	8	1.04E-03	0.459127851
WBGene00008150	-0.620010182	25	1.22E+07	-0.676702087
WBGene00006699	0.217173125	20	3.06E-02	0.45012465
WBGene00008149	0.098823429	11	3.54E-01	0.397063696
WBGene00008148	0.532626158	11	2.07E-03	0.055848449
WBGene00008147	0.283142746	5	1.14E-01	-0.241904573
WBGene00005663	0.20017722	9	1.31E-01	0.288490482
WBGene00008156	-0.395754238	3	3.96E+00	0.161370154
WBGene00009678	-0.51268815	24	5.22E+05	0.115079214
WBGene00009679	-0.245930538	3	1.96E+00	-0.077459341
WBGene00009686	0.054072304	10	5.85E-01	0.026552203
WBGene00219418	-0.235463383	2	1.40E+00	-0.336780671
WBGene00009680	-0.499000635	5	1.83E+01	-0.68877588
WBGene00009685	-0.744798342	8	8.39E+02	-0.647452879
WBGene00009681	-0.45610577	10	1.57E+02	-0.869200532
WBGene00009682	-0.89434792	5	2.39E+02	-0.858456467
WBGene00194914	-0.725736072	2	9.07E+00	-0.827461297
WBGene00009683	-0.182191106	5	2.34E+00	-0.207739242
WBGene00009684	-0.080079954	5	1.21E+00	-0.61492012
WBGene00009687	-0.761460691	3	2.22E+01	-0.528069302
WBGene00011424	-0.447547144	2	3.14E+00	-0.267449339
WBGene00001487	-0.404835638	6	1.54E+01	-1
WBGene00011422	0.265421202	8	7.94E-02	0.672176459
WBGene00044018	0.760609289	4	9.38E-03	0.870829417
WBGene00005723	0.162997458	4	2.67E-01	0.042891608
WBGene00011425	-0.189729823	8	5.16E+00	0.121814022
WBGene00011423	-0.121494244	18	1.77E+01	-0.061587916
WBGene00000858	0.187661843	7	1.77E-01	0.293350151
WBGene00012170	-0.132028953	7	2.50E+00	0.116193106
WBGene00012169	-0.51949862	11	5.39E+02	-1
WBGene00012171	-0.676334717	6	1.15E+02	-0.878508595
WBGene00012172	-0.336478507	7	1.36E+01	-0.191825864
WBGene00012173	-0.194732264	7	4.20E+00	-0.490758711
WBGene00012174	-0.004914106	3	6.29E-01	-0.031162361
WBGene00000593	-0.038883665	4	8.26E-01	-0.104384724
WBGene00003576	-0.438574662	12	3.30E+02	-0.167605156
WBGene00007304	-0.437369313	8	5.00E+01	-0.156086497
WBGene00007305	-0.397765827	7	2.26E+01	-0.475717758
WBGene00007306	-0.97117973	5	3.93E+02	-0.568649822
WBGene00003432	-1	5	5.49E+02	0.008401068
WBGene00001001	0.017279679	29	2.85E+00	0.269153823
WBGene00001204	0.022258749	7	6.97E-01	-0.023317469
WBGene00007307	-0.363342858	5	7.60E+00	-0.302164174
WBGene00007308	-0.893424059	7	1.37E+03	-0.603617859
WBGene00007309	-0.639180915	11	2.23E+03	-0.874439013

WBGene00007310	-0.212165342	9	8.28E+00	0.060380136
WBGene00010676	0.354022504	16	5.22E-03	0.266831812
WBGene00010677	1	12	7.07E-07	0.411717074
WBGene00010678	0.306644229	5	9.80E-02	0.028908305
WBGene00001621	-0.308184611	13	8.92E+01	-0.283764646
WBGene00010679	0.117149947	2	3.64E-01	0.066496808
WBGene00010680	0.036740551	2	4.94E-01	-0.034669497
WBGene00001751	0.80249818	2	2.66E-02	0.305445155
WBGene00001750	0.417152379	3	8.62E-02	0.230423416
WBGene00001752	0.226463423	3	2.12E-01	-0.069275614
WBGene00003434	0.092021157	3	3.99E-01	0.084388233
WBGene00000975	0.049190172	6	5.39E-01	-0.049461626
WBGene00011777	0.17762892	5	2.26E-01	0.10853258
WBGene00011776	0.583466144	10	1.77E-03	0.328842998
WBGene00006638	0.456553521	7	1.91E-02	0.655905843
WBGene00011775	0.230319539	23	1.60E-02	-0.052972862
WBGene00011774	0.080337575	5	4.26E-01	-0.163181014
WBGene00011773	-0.567573383	4	1.60E+01	-0.161501032
WBGene00004091	0.099356988	16	3.33E-01	0.040840955
WBGene00004254	0.13329109	32	9.85E-02	0.297956231
WBGene00010556	0.336520379	15	8.69E-03	-0.767951692
WBGene00010557	0.02804861	11	8.20E-01	-0.033550679
WBGene00001794	0.040212155	13	7.71E-01	-0.055614561
WBGene00010558	0.190806433	27	2.70E-02	0.059360582
WBGene00001653	0.282838584	20	8.29E-03	0.192261958
WBGene00010559	0.140204073	5	2.89E-01	-0.074766307
WBGene00000019	-0.35768279	32	3.29E+05	-0.210822032
WBGene00007698	0.113384143	16	2.65E-01	0.141799665
WBGene00000698	-0.008891676	5	7.60E-01	-0.06793285
WBGene00007696	0.41032128	5	5.00E-02	0.216317913
WBGene00007697	-0.245791393	10	1.56E+01	-0.231145614
WBGene00003531	-0.140350421	5	1.79E+00	0.124033482
WBGene00008509	0.066695818	5	4.65E-01	-0.046605159
WBGene00008508	-0.013825261	13	1.61E+00	-0.12061293
WBGene00008507	-0.151848807	7	2.95E+00	-0.040791961
WBGene00001158	-0.363652439	8	2.54E+01	-0.222022716
WBGene00001157	-0.232781672	11	1.80E+01	-0.053639681
WBGene00008510	-0.338786503	6	9.47E+00	-0.107038302
WBGene00008506	0.352690658	15	6.77E-03	0.101786997
WBGene00008512	-0.420187747	14	6.46E+02	-0.151531146
WBGene00000910	0.700841476	20	2.04E-06	0.773348479
WBGene00008511	-0.163264211	18	3.77E+01	-0.318330658
WBGene00012781	-0.262326587	4	2.89E+00	-0.286261696
WBGene00012782	-0.098692382	7	1.90E+00	-0.084376587
WBGene00012783	-0.349777841	4	4.71E+00	0.234525502
WBGene00044922	-0.279408243	2	1.65E+00	-0.614198414
WBGene00012784	-0.334922204	7	1.34E+01	-0.423443855

WBGene00006568	-0.204209316	16	4.71E+01	-0.210913485
WBGene00004297	0.040804101	10	6.76E-01	-0.127326054
WBGene00004140	0.231415955	20	2.30E-02	0.448660524
WBGene00011176	-0.238342331	3	1.89E+00	0.207270832
WBGene00194658	-0.231762018	3	1.83E+00	0.175034744
WBGene00011175	-0.257026695	26	2.40E+03	-0.317565854
WBGene00011177	0.306145352	3	1.45E-01	0.978661952
WBGene00011173	0.923628396	13	4.53E-06	0.792601176
WBGene00011172	-0.267789079	4	2.98E+00	-0.688171158
WBGene00011171	-0.010414083	5	7.68E-01	0.011054073
WBGene00006779	0.30387214	69	4.11E-07	0.217279845
WBGene00012785	-0.516097582	7	6.01E+01	-0.430020226
WBGene00012786	-0.218254161	3	1.72E+00	-0.148738444
WBGene00011236	-0.051355595	9	1.64E+00	-0.061469278
WBGene00011237	0.018276242	7	7.20E-01	0.281556483
WBGene00011238	-0.092202988	6	1.53E+00	0.08667034
WBGene00004800	0.502465786	13	1.41E-03	0.62543034
WBGene00011239	0.29123897	7	7.52E-02	0.530901478
WBGene00002152	0.530215328	26	5.63E-06	0.457422117
WBGene00011241	0.680391583	9	1.04E-03	0.432939988
WBGene00011240	0.322733566	41	4.50E-05	0.218184419
WBGene00003064	0.353466303	5	7.23E-02	0.257247743
WBGene00011222	-0.678280756	21	3.27E+06	-0.452466254
WBGene00004972	-0.562921793	11	9.01E+02	-0.514886039
WBGene00011223	-0.171804306	2	1.10E+00	0.035682122
WBGene00001669	0.516102998	21	5.46E-05	0.249336559
WBGene00011224	0.265101992	2	2.07E-01	0.086249994
WBGene00011225	-0.168327759	13	1.32E+01	0.475523191
WBGene00008733	0.325414336	13	1.58E-02	0.459424545
WBGene00008729	0.279142221	9	5.90E-02	0.518565795
WBGene00008730	0.06242832	8	5.11E-01	-0.113482308
WBGene00002084	-0.867674436	8	2.59E+03	-0.762702957
WBGene00008731	-0.374413317	14	3.32E+02	-0.285408492
WBGene00008734	-0.281102187	4	3.21E+00	0.002106419
WBGene00008732	-0.023673293	7	1.02E+00	-0.018629214
WBGene00008490	-0.137031819	7	2.61E+00	0.007497582
WBGene00008489	-0.174787149	8	4.50E+00	-0.190463732
WBGene00003167	-0.444681508	11	2.22E+02	-0.734467993
WBGene00008485	-0.813136861	14	1.95E+05	-0.880499415
WBGene00008486	-0.705216837	10	2.40E+03	-0.585152038
WBGene00008491	-0.440417782	25	1.54E+05	-0.43284263
WBGene00001189	1	12	2.69E-06	0.868801339
WBGene00008488	0.007822219	2	5.52E-01	0.011400062
WBGene00000419	0.07702891	36	5.71E-01	0.201732341
WBGene00006527	0.54837373	21	2.80E-05	0.375771741
WBGene00007264	0.480133857	5	3.18E-02	0.358896723
WBGene00000288	0.216662307	21	2.75E-02	0.371738096

WBGene00007265	0.089395388	3	4.03E-01	0.182333627
WBGene00011593	0.15232403	5	2.67E-01	0.136504772
WBGene00011594	-0.166978484	7	3.34E+00	0.210499894
WBGene00011595	-0.178354977	9	5.89E+00	-0.103716285
WBGene00011596	0.085857875	14	4.14E-01	-0.070694472
WBGene00011597	0.628637864	30	6.79E-08	1
WBGene00011600	-0.331232928	10	3.99E+01	0.085608873
WBGene00011601	-0.570978593	12	1.78E+03	-0.02963487
WBGene00001867	0.174581407	7	1.97E-01	0.405241426
WBGene00001163	0.428833239	11	7.10E-03	0.296283841
WBGene00008076	-0.204547828	10	9.95E+00	0.060443441
WBGene00008077	0	7	8.38E-01	0
WBGene00008072	-0.005104731	4	6.83E-01	-0.003345869
WBGene00008073	-0.201100897	8	5.73E+00	-0.181093552
WBGene00008074	-0.529474826	10	3.50E+02	-0.156052661
WBGene00008075	-0.482849794	2	3.59E+00	-0.164552888
WBGene00045024	-0.295559984	12	5.34E+01	-0.129400336
WBGene00011179	-0.322939995	6	8.42E+00	-0.468709334
WBGene00011180	-0.157095515	7	3.08E+00	-0.013875147
WBGene00011181	-0.493092463	10	2.35E+02	-1
WBGene00011183	-1	6	5.20E+03	-2
WBGene00004228	-0.394895503	18	2.50E+03	-0.225275821
WBGene00011184	-0.384148037	5	8.70E+00	-0.021727679
WBGene00011182	-0.601950299	30	1.70E+08	-0.606157268
WBGene00044977	-0.837301115	9	4.47E+03	-0.842842623
WBGene00010144	-0.810495481	13	8.41E+04	-1
WBGene00010145	-0.15742837	10	5.93E+00	-0.092965037
WBGene00010146	-0.216323989	13	2.55E+01	0.170823827
WBGene00010646	0.585864947	13	4.53E-04	0.485922126
WBGene00001476	-0.016710485	11	1.39E+00	-0.062477752
WBGene00010649	0.248144168	5	1.43E-01	-0.256271681
WBGene00001328	0.501916233	60	3.88E-11	-0.027885676
WBGene00010647	0.349514824	6	5.87E-02	0.274815515
WBGene00001477	-0.413472493	10	9.81E+01	-0.544034011
WBGene00010648	0.012547843	7	7.55E-01	-0.503670843
WBGene00011288	-0.29684143	3	2.49E+00	0.177606642
WBGene00011289	-0.12082689	3	1.09E+00	0.164859624
WBGene00011295	-0.442948841	3	4.95E+00	-0.390466863
WBGene00011290	-0.316021607	7	1.15E+01	-0.318504278
WBGene00011291	-0.26152752	19	3.05E+02	-0.126880438
WBGene00011292	0.15529739	11	1.81E-01	-0.68078802
WBGene00077714	-0.069459511	5	1.13E+00	0.173807102
WBGene00011293	-0.351489327	24	1.19E+04	-0.296631375
WBGene00011297	-0.224413248	5	3.08E+00	-0.229037333
WBGene00011296	-0.056027991	2	7.04E-01	-0.054980131
WBGene00003568	-0.035483853	22	5.78E+00	-0.268082166
WBGene00013856	0.004796704	1	5.19E-01	0

WBGene00013857	-0.032600731	9	1.36E+00	0.260660811
WBGene00000865	-0.621966543	7	1.44E+02	-0.205378276
WBGene00001730	-0.242346384	4	2.58E+00	-0.686030003
WBGene00013858	-0.316276053	4	3.90E+00	-0.589908898
WBGene00012009	-0.057557162	10	1.99E+00	0.073968384
WBGene00012007	-0.390572414	7	2.13E+01	0.308373021
WBGene00012008	-0.490326931	9	1.36E+02	-0.480089102
WBGene00012011	-0.203252798	14	2.76E+01	-0.618740371
WBGene00012010	-0.241320585	5	3.44E+00	-0.004848243
WBGene00012012	-0.268612438	12	3.79E+01	-0.200705407
WBGene00012013	-0.779149558	12	2.53E+04	-0.439928248
WBGene00044990	-0.208284014	2	1.26E+00	-0.034519862
WBGene00044991	-0.158264564	2	1.04E+00	-0.060938549
WBGene00012014	-0.00608975	6	8.11E-01	0.569505649
WBGene00012015	0.291566393	17	1.21E-02	0.47656306
WBGene00012016	0.657440839	9	1.31E-03	0.827316311
WBGene00007384	-0.799307968	10	6.73E+03	-0.617684233
WBGene00005085	-0.766404568	7	4.77E+02	-0.613085217
WBGene00003876	-0.605428266	15	1.77E+04	-0.461716433
WBGene00014669	-0.146337328	7	2.81E+00	-0.082298195
WBGene00011259	0.151321738	33	5.36E-02	-0.073813492
WBGene00011257	0.069798628	7	4.70E-01	-0.002213487
WBGene00011258	-0.802455572	11	1.54E+04	-0.681273356
WBGene00011720	0.071588847	21	5.60E-01	0.224030112
WBGene00011719	0.235325029	9	9.16E-02	0.407365028
WBGene00011718	0.110610208	9	3.21E-01	0.548296447
WBGene00011717	-0.385553512	10	7.23E+01	0.28166331
WBGene00002001	0.204001337	15	6.70E-02	0.329296854
WBGene00011722	0.092250434	12	3.81E-01	0.282357339
WBGene00008750	-0.022173537	26	6.40E+00	0.272968337
WBGene00008760	0.198416664	11	1.09E-01	0.403840412
WBGene00008761	-0.2263704	2	1.35E+00	-0.05057415
WBGene00008751	-0.222647623	1	1.01E+00	-0.053733879
WBGene00008755	-0.16358814	4	1.66E+00	-0.079129527
WBGene00008752	-0.102277616	2	8.40E-01	-0.047299239
WBGene00044797	-0.383303632	5	8.65E+00	-0.397707228
WBGene00008754	-0.173614935	6	2.80E+00	0.189445175
WBGene00008759	-0.573360603	4	1.65E+01	-0.691391132
WBGene00045209	0	1	5.26E-01	-0.013048843
WBGene00045208	0	1	5.26E-01	0
WBGene00045207	0	2	5.69E-01	0
WBGene00008757	-0.131115163	3	1.14E+00	-0.083333857
WBGene00008753	0.073841588	5	4.44E-01	0.045383541
WBGene00008758	0.002902746	3	6.06E-01	-0.119685464
WBGene00194922	0.00504872	1	5.19E-01	-0.008255095
WBGene00014006	-0.114737455	2	8.81E-01	0
WBGene00014008	-0.35339705	6	1.05E+01	0.244287494

WBGene00014007	0.328125503	5	8.52E-02	-0.528108563
WBGene00014001	0.056737471	12	5.99E-01	-0.033785897
WBGene00014002	0.180035519	6	2.05E-01	-0.292636887
WBGene00014003	-0.344401161	3	3.11E+00	-0.081959593
WBGene00004319	0.387555061	29	9.22E-05	0.495971796
WBGene00001017	0.535391924	23	1.64E-05	0.434737146
WBGene00003081	0.324487974	5	8.73E-02	0.144500896
WBGene00002981	0.522142227	9	5.11E-03	0.020210354
WBGene00014004	0.084893388	13	4.19E-01	0.091483606
WBGene00013473	0.944547601	8	1.57E-04	0.800452612
WBGene00013474	-0.126060396	6	1.97E+00	-0.594648277
WBGene00013475	0.723483598	16	1.26E-05	0.310239724
WBGene00013476	1	12	2.93E-06	0.416922357
WBGene00013477	0.728037166	4	1.13E-02	0.261100442
WBGene00005531	0.201408516	10	1.16E-01	0.666139882
WBGene00000171	0.114425874	14	2.73E-01	0.009008285
WBGene00013478	-0.151638051	6	2.38E+00	0.068306086
WBGene00012794	-0.015880706	6	8.72E-01	0.026526811
WBGene00000866	-3.14E-05	6	7.76E-01	-0.035924785
WBGene00012795	-0.500156055	6	3.12E+01	-0.806168262
WBGene00008776	0.005958496	14	1.32E+00	-0.257102982
WBGene00045056	-0.28707824	9	1.76E+01	-0.496290526
WBGene00008773	0.239217697	2	2.28E-01	-0.413519668
WBGene00008777	-0.010901749	1	5.43E-01	0
WBGene00003586	-0.180198992	13	1.56E+01	-0.003922095
WBGene00008774	-0.128035262	13	7.65E+00	0.138762988
WBGene00008775	-0.076963687	18	7.92E+00	0.073414671
WBGene00044784	-0.021901036	3	6.81E-01	0.081611921
WBGene00000109	-0.023736719	17	2.74E+00	-0.152544716
WBGene00009494	-0.445112096	4	8.04E+00	-0.134763339
WBGene00009493	-0.584392533	5	3.19E+01	0.091271398
WBGene00009495	0.006104268	6	7.41E-01	0.364705458
WBGene00001426	-0.367975775	9	3.97E+01	-0.245724119
WBGene00006490	0.064960888	33	8.13E-01	0.244695522
WBGene00009496	-0.280392083	5	4.43E+00	-0.339448016
WBGene00009492	-0.300552816	9	2.02E+01	0.169698191
WBGene00009497	-0.20231376	3	1.59E+00	-0.149242608
WBGene00002992	-0.138800492	21	4.44E+01	-0.157101174
WBGene00012382	0.700390535	3	2.27E-02	0.013788527
WBGene00012383	0.06043332	1	4.41E-01	0.166840703
WBGene00012385	0.000125004	4	6.64E-01	0.172123292
WBGene00010882	0.349302262	14	9.02E-03	0.264551782
WBGene00002344	0.232670714	9	9.41E-02	-0.527858804
WBGene00002214	0.125578518	11	2.58E-01	0.107677793
WBGene00000246	-0.621166065	30	2.95E+08	-0.085107075
WBGene00010883	-1	15	1.61E+07	-0.397840233
WBGene00010884	1	4	1.44E-03	0.962899813

WBGene00010887	-0.098387652	7	1.89E+00	-0.022358996
WBGene00006071	-0.3930434	5	9.21E+00	0.243788213
WBGene00010885	-0.076224971	3	8.80E-01	-0.247291223
WBGene00010886	0.306560101	4	1.19E-01	-0.079086229
WBGene00011484	0.513013578	8	8.19E-03	0.199780706
WBGene00011482	0.504356955	5	2.71E-02	0.311226327
WBGene00004474	1	4	2.27E-04	0.675814189
WBGene00011479	-0.112073366	9	3.02E+00	0.131166793
WBGene00011481	-0.056716392	9	1.73E+00	-0.202674021
WBGene00011480	0.572568238	18	6.21E-05	0.224908098
WBGene00004985	0.430026096	12	5.15E-03	0.324154435
WBGene00004204	0.647416534	27	1.77E-07	0.740768336
WBGene00000181	0.126678026	7	2.94E-01	0.423238294
WBGene00008502	0.057739305	21	7.47E-01	0.036553553
WBGene00008503	0.306484764	6	8.06E-02	-0.152504536
WBGene00008504	0.748700801	3	1.81E-02	0.752612992
WBGene00008505	1	8	2.90E-05	1
WBGene00007444	0.263768481	25	5.50E-03	0.332212035
WBGene00007443	0.659477888	4	1.65E-02	0.294136517
WBGene00007445	0.098490429	8	3.67E-01	-0.118693812
WBGene00007446	-0.433496556	13	4.92E+02	-0.463353962
WBGene000219217	-0.415968479	3	4.36E+00	-0.692835361
WBGene00007447	-0.142587513	3	1.20E+00	-0.306954039
WBGene00007448	-0.695443999	12	8.71E+03	-0.262941153
WBGene00003657	-0.158721332	14	1.45E+01	-0.105972897
WBGene00004309	0.198686875	4	2.18E-01	0.281444832
WBGene00007449	0.484759039	4	4.40E-02	0.379203157
WBGene00011122	0.085018212	13	4.19E-01	0.472575388
WBGene00004199	0.002756772	5	7.05E-01	0.184299409
WBGene00011123	-0.367041022	7	1.75E+01	-0.095268086
WBGene00011124	-0.549997844	6	4.51E+01	0.268605789
WBGene00011127	-0.031734529	4	7.93E-01	0.068517691
WBGene00235134	0.26341998	1	2.44E-01	0.197866273
WBGene00011131	-0.05518745	16	4.14E+00	0.43915946
WBGene00011129	0.415248006	8	2.01E-02	0.288583786
WBGene00011128	0.852542694	11	4.68E-05	0.582562027
WBGene00011130	0.013912902	10	9.08E-01	-0.006808269
WBGene00007809	-0.064763801	3	8.34E-01	-0.009814629
WBGene00000699	-0.332549905	4	4.28E+00	0.087107919
WBGene00007808	-0.134855874	9	3.80E+00	-0.040071849
WBGene00007338	1	5	3.18E-04	0.809714687
WBGene00007336	-0.4470941	4	8.12E+00	-0.236948392
WBGene00001795	-0.504808753	31	1.75E+07	-0.24109062
WBGene00007335	-0.603757586	7	1.24E+02	-0.40035801
WBGene00007337	-0.850790202	8	2.22E+03	0.004243079
WBGene00010046	-0.509821984	8	9.72E+01	-0.905470331
WBGene00000700	-0.262256589	6	5.38E+00	-0.134082836

WBGene00000701	-0.110982998	6	1.76E+00	-0.040627996
WBGene00003606	-0.731472443	15	1.23E+05	-0.487482988
WBGene00001796	-0.484035333	33	2.62E+07	-0.534121182
WBGene00010047	-0.474077729	35	5.21E+07	-0.508462188
WBGene00007114	-0.575372538	15	1.11E+04	-0.543296693
WBGene00007113	0.351397146	8	3.61E-02	0.455947428
WBGene00001019	0.424580068	16	1.65E-03	0.980175164
WBGene00007112	0.015931084	3	5.70E-01	0.137814102
WBGene00007105	0.200427842	8	1.44E-01	0.135229655
WBGene00001020	0.326346785	8	4.54E-02	0.092845433
WBGene00007106	-0.080160564	5	1.21E+00	-0.053165088
WBGene00007107	0.142467074	3	3.14E-01	0.164049423
WBGene00303031	0.021973191	1	4.94E-01	0.018549914
WBGene00007108	-0.272376758	15	1.04E+02	0.084150051
WBGene00044290	-0.526772738	2	4.24E+00	0.25868846
WBGene00007109	-0.042690096	13	2.39E+00	-0.008775916
WBGene00001921	0	1	5.26E-01	0
WBGene00001922	0	2	5.69E-01	0
WBGene00001920	-0.020340554	2	6.15E-01	-0.102763899
WBGene00001919	-0.072975094	3	8.67E-01	-0.044394028
WBGene00235095	0.087077151	2	4.08E-01	-0.11162843
WBGene00007110	0.157034387	10	1.89E-01	-0.10112893
WBGene00007111	0.180228662	15	9.67E-02	0.572124342
WBGene00010061	-0.222491552	24	5.78E+02	-0.635017446
WBGene00001929	0.18824424	3	2.53E-01	-0.174308162
WBGene00001930	0.218188105	2	2.47E-01	0.022378634
WBGene00001932	0.013526491	2	5.40E-01	-0.006021492
WBGene00001931	0.219169938	3	2.19E-01	-0.079905712
WBGene00002223	0.353153523	61	1.20E-07	0.335156252
WBGene00011337	1	9	4.75E-06	0.588838701
WBGene00044025	-0.174162422	5	2.22E+00	-0.037379684
WBGene00011338	-0.023771727	23	4.95E+00	0.162287596
WBGene00010351	-0.798479495	22	8.76E+07	-0.143115476
WBGene00010352	-0.122166755	3	1.09E+00	-0.455859589
WBGene00006459	0.232680311	12	6.37E-02	0.219351196
WBGene00001108	0.104959984	5	3.63E-01	0.286334406
WBGene00001940	-0.195514666	2	1.20E+00	-0.004338001
WBGene00001939	-0.02336511	1	5.64E-01	-0.16866472
WBGene00010353	-0.355560556	6	1.07E+01	-0.00913253
WBGene00010354	-0.471666268	12	5.03E+02	-0.342613328
WBGene00001937	-0.065123301	3	8.35E-01	-0.093119152
WBGene00001938	0.013125433	2	5.41E-01	-0.154933643
WBGene00009035	-0.608746213	24	4.97E+06	-0.843881518
WBGene00045122	-0.273293478	6	5.84E+00	-0.371318977
WBGene00009036	-0.033816487	5	8.94E-01	-0.227271573
WBGene00009038	-0.319237933	20	1.31E+03	-0.356832942
WBGene00009039	-0.229425997	8	7.43E+00	-0.037334732

WBGene00002192	0.35585196	58	2.11E-07	0.383520994
WBGene00007006	0.576579673	13	5.14E-04	0.971109205
WBGene00007512	-0.033064344	7	1.10E+00	0.483687085
WBGene00007515	-0.329520699	9	2.70E+01	0.213232759
WBGene00219489	-0.636635142	1	3.38E+00	-0.341697049
WBGene00007513	0.307593078	10	3.64E-02	0.606391377
WBGene00007514	1	19	2.37E-12	1
WBGene00003148	0.871822186	7	6.15E-04	0.651951569
WBGene00010409	0.280312399	8	6.92E-02	0.352315122
WBGene00004892	0.219746007	42	2.14E-03	0.514489958
WBGene00219458	-0.159707051	3	1.30E+00	-0.098992163
WBGene00006678	-0.202822505	15	3.56E+01	-0.340227923
WBGene00010848	-0.138559843	12	7.22E+00	0.378923054
WBGene00010847	-0.045219079	11	1.95E+00	0.087436073
WBGene00001585	-0.047522748	7	1.24E+00	-1
WBGene00003218	1	18	2.52E-08	0.477879923
WBGene00010846	0.73163621	11	1.96E-04	0.764435716
WBGene00010849	0.038196089	31	1.73E+00	0.054974414
WBGene00000702	1	7	5.24E-05	0.908212057
WBGene00008722	0.147282701	14	1.70E-01	0.292197696
WBGene00004755	0.657816371	28	8.11E-08	0.277902467
WBGene00006406	0.828955557	38	1.06E-12	0.267691744
WBGene00004360	0.392533182	21	7.12E-04	-0.11589412
WBGene00008720	0.625875613	20	9.04E-06	0.279848491
WBGene00009589	0.107522607	12	3.14E-01	0.340882635
WBGene00009588	0.009051866	1	5.13E-01	0.164113182
WBGene00009587	0.877406734	41	2.22E-14	0.680088899
WBGene00004480	1	3	3.89E-03	0.870270382
WBGene00012497	0.535179018	11	2.01E-03	0.020059165
WBGene00012496	4.48E-05	6	7.75E-01	0.056212574
WBGene00001107	-0.004144849	1	5.33E-01	0
WBGene00003093	-0.124440344	7	2.35E+00	-0.155811166
WBGene00003094	0.035516183	3	5.20E-01	0.432122361
WBGene00003095	0.139422177	4	3.04E-01	0.478048433
WBGene00010231	0.253707794	10	6.56E-02	0.135508363
WBGene00003415	0.388950952	16	2.96E-03	0.644535014
WBGene00010232	-0.024260501	7	1.02E+00	0.243730154
WBGene00010233	0.018489416	6	6.77E-01	0.004112109
WBGene00010234	0.222809638	6	1.50E-01	-0.195489316
WBGene00014085	-0.930600505	8	4.61E+03	-0.774467046
WBGene00004192	0.022007968	10	8.31E-01	-0.570966679
WBGene00014088	0.14880617	9	2.19E-01	-0.194251812
WBGene00006491	0.162664667	8	2.04E-01	-0.678384871
WBGene00014086	-0.175727918	1	8.80E-01	-0.196417088
WBGene00001320	0.736686524	10	3.30E-04	0.004581592
WBGene00014087	-0.055719926	22	8.97E+00	0.017902706
WBGene00014076	-0.174512816	10	7.16E+00	0.045859126

WBGene00194934	0.066004052	11	5.23E-01	0.145307975
WBGene00014080	-1	14	5.37E+06	-0.806899777
WBGene00002130	-0.352943689	6	1.05E+01	-0.317959697
WBGene00002131	-0.889377393	9	7.55E+03	-1
WBGene00014077	-0.828876665	13	1.08E+05	-0.897187264
WBGene00014078	0.071939202	5	4.50E-01	0.387371243
WBGene00002335	0.427946584	7	2.42E-02	0.392527174
WBGene00235132	0.069137221	1	4.30E-01	-0.095368655
WBGene00014079	-0.099869704	8	2.26E+00	-0.333597418
WBGene00001079	-0.186535925	11	1.04E+01	-0.088425791
WBGene00011911	-0.396393586	6	1.45E+01	-0.344101973
WBGene00011910	-0.553647492	23	7.71E+05	-0.724472336
WBGene00010444	0.204839739	53	1.21E-03	0.066119244
WBGene00010448	-0.273145296	29	9.45E+03	-0.469266326
WBGene00194869	-0.671381844	4	2.85E+01	-2
WBGene00045096	-0.002535738	1	5.30E-01	-0.012364996
WBGene00010446	-0.337108426	5	6.41E+00	-0.201397909
WBGene00010447	-0.701814249	3	1.67E+01	-0.18443066
WBGene00001577	-0.130477233	14	9.60E+00	-0.396822532
WBGene00011727	-1.39E-05	12	1.23E+00	-0.698383757
WBGene00011724	-0.244422802	6	4.72E+00	-0.562643735
WBGene00194933	-0.070676702	2	7.45E-01	0.008094198
WBGene00185100	0.132524777	2	3.43E-01	-0.238096994
WBGene00011723	0.632890519	11	6.32E-04	0.736745222
WBGene00011725	-0.419099276	20	9.55E+03	-0.406826343
WBGene00011726	0.338824631	37	5.94E-05	0.291425419
WBGene00010350	0.994235467	22	1.18E-09	1
WBGene00010349	0.57658761	8	4.57E-03	0.222545117
WBGene00045108	-0.167323539	7	3.35E+00	0.220330913
WBGene00010348	0.175347362	2	2.91E-01	0.083278709
WBGene00010918	0.16727099	17	1.02E-01	-0.103812488
WBGene00003920	0.050112325	9	5.91E-01	-0.26525366
WBGene00010919	0.416662523	2	1.16E-01	0.040482941
WBGene00044253	-0.013968724	3	6.56E-01	0.125981867
WBGene00010920	-0.480204981	18	1.17E+04	-0.206739495
WBGene00009546	-2	7	1.01E+06	-1
WBGene00009547	-0.1895079	13	1.77E+01	-0.367653997
WBGene00009550	-0.079250495	4	1.04E+00	-0.115915393
WBGene00009548	-0.066043516	6	1.26E+00	-0.197848948
WBGene00006415	0.327888557	17	6.45E-03	0.255095637
WBGene00009549	0.686886076	4	1.42E-02	0.405859441
WBGene00001151	0.4759144	7	1.63E-02	0.294428764
WBGene00002363	0.680542569	18	8.80E-06	0.000674049
WBGene00009551	0.103444367	4	3.72E-01	-0.054658363
WBGene00007801	-0.311092724	34	1.61E+05	0.052405492
WBGene00004084	-0.011124936	9	1.09E+00	0.009631826
WBGene00007802	-0.326223324	20	1.51E+03	-0.250999105

WBGene00002827	-0.245772884	18	1.68E+02	-0.379699759
WBGene00003633	-0.434715763	14	7.97E+02	-0.652467466
WBGene00012163	-0.075777508	1	6.57E-01	-0.079430404
WBGene00001398	-1	10	2.87E+06	-1
WBGene00219327	-0.534672127	3	7.62E+00	-0.514566099
WBGene00219456	-0.173180496	3	1.39E+00	-0.044700748
WBGene00014089	0.009481722	19	1.77E+00	0.319948379
WBGene00014090	0.236046976	5	1.55E-01	0.2654624
WBGene00044009	-0.072978876	6	1.33E+00	-0.097943715
WBGene00014091	2	8	2.10E-07	1
WBGene00003736	0.19311222	14	8.72E-02	0.52914001
WBGene00014092	0.212019772	13	7.41E-02	0.24956793
WBGene00014093	0.238475924	12	5.91E-02	0.067193993
WBGene00014094	-0.276457271	9	1.58E+01	0.030086727
WBGene00001839	-0.382969483	23	1.64E+04	-0.017185762
WBGene00006555	0.011788325	2	5.44E-01	-0.135768564
WBGene00014095	0.216470501	9	1.11E-01	-0.133098337
WBGene00006566	-0.03963858	9	1.46E+00	0.439027628
WBGene00014096	-0.087964754	11	3.24E+00	-0.121642903
WBGene00005591	-0.051130287	7	1.28E+00	0.108383605
WBGene00014097	-0.217889111	10	1.15E+01	-0.535242915
WBGene00006759	0.226789441	208	1.59E-12	-0.122237805
WBGene00303099	-0.152966556	1	8.23E-01	-0.650177734
WBGene00004971	-0.079870725	3	8.95E-01	-0.896046005
WBGene00014009	-0.12930923	6	2.02E+00	0.161993837
WBGene00011742	0.252811648	8	8.91E-02	0.278402215
WBGene00235284	-0.219614635	1	1.00E+00	0.253936199
WBGene00011741	0.218397562	8	1.22E-01	0.390884511
WBGene00011740	0.260922198	11	5.19E-02	-0.019698787
WBGene00011737	0.40403203	19	9.88E-04	0.474205682
WBGene00011738	-0.13394136	38	1.14E+03	-0.283400545
WBGene00011739	-0.136888387	10	4.74E+00	-0.380411299
WBGene00000270	-0.08239339	4	1.05E+00	-0.143558188
WBGene00005015	0.375965999	27	2.14E-04	-0.029453918
WBGene00010666	0.130021193	5	3.09E-01	0.191584206
WBGene00010667	0.071199069	12	4.98E-01	-0.67241083
WBGene00045283	0.016844206	4	6.04E-01	0.373792848
WBGene00010669	-0.086594335	18	9.42E+00	0.028771444
WBGene00045036	0.986756161	6	5.30E-04	0.152202993
WBGene00010670	0.979232373	7	2.53E-04	0.66671912
WBGene00008682	0.254505877	23	9.29E-03	0.226246346
WBGene00008683	1	8	7.20E-05	0.279964196
WBGene00008688	1	5	6.24E-04	0.926421671
WBGene00008687	0.794922532	6	2.19E-03	0.779332619
WBGene00008684	0.432805851	16	1.45E-03	0.453392941
WBGene00044329	0.589558105	10	1.65E-03	0.761112745
WBGene00008686	0.139134832	8	2.53E-01	0.337655011

WBGene00008685	-0.029742774	28	9.53E+00	0.049771278
WBGene00010889	-0.312208804	15	1.92E+02	-0.088586032
WBGene00000703	-0.254522719	5	3.75E+00	-0.213548755
WBGene00010888	0.499495224	4	4.05E-02	0.302746953
WBGene00010890	0.120078042	30	1.57E-01	0.245234516
WBGene00010891	0.254851933	6	1.18E-01	0.082043667
WBGene00000122	0.132672415	8	2.68E-01	0.334252853
WBGene00010892	0.108810104	12	3.09E-01	-0.225577333
WBGene00003010	0.164620558	16	1.15E-01	0.108695614
WBGene00007089	0.205112174	11	1.01E-01	0.346370193
WBGene00007093	0.322930625	18	5.69E-03	0.237645684
WBGene00007090	0.008300354	14	1.28E+00	-0.250420331
WBGene00007088	0.052565487	17	7.36E-01	-0.397460764
WBGene00007087	-0.070308946	15	4.61E+00	-0.03024572
WBGene00007092	-0.422913884	17	2.63E+03	-1
WBGene00007091	0.118311813	21	2.12E-01	0.497958147
WBGene00008967	-0.591962016	5	3.35E+01	-0.166945274
WBGene00003772	0.454473713	26	3.81E-05	0.468092418
WBGene00009435	-0.586030301	27	1.77E+07	-0.462040814
WBGene00009436	-0.12494159	11	5.02E+00	-0.337844451
WBGene00009437	-0.095434688	3	9.63E-01	-0.083368563
WBGene00004025	0.145365655	10	2.15E-01	0.174096209
WBGene00009438	-0.109880619	8	2.48E+00	0.468009132
WBGene00012704	-0.17871306	14	1.93E+01	0.032409138
WBGene00012705	0.004811234	3	6.01E-01	0.051400879
WBGene00012707	0.014709908	5	6.52E-01	-0.072537168
WBGene00012708	0.02864315	7	6.61E-01	-0.237625952
WBGene00012709	0	6	7.76E-01	0
WBGene00001044	2	6	1.42E-06	1
WBGene00012710	2	5	1.01E-05	2
WBGene00016579	0.176635596	3	2.68E-01	0.347729189
WBGene00016580	0.785813573	15	8.51E-06	0.762774813
WBGene00004448	0.63187602	3	3.14E-02	0.797420828
WBGene00016581	0.875984165	2	2.01E-02	1
WBGene00016582	0.854235227	25	3.14E-09	1
WBGene00016583	0.120011591	6	3.20E-01	0.158798589
WBGene00016591	0.015848225	2	5.35E-01	0.28791969
WBGene00016589	-0.145575925	14	1.20E+01	0.688395699
WBGene00016590	-0.36568986	3	3.44E+00	0.118022327
WBGene000302978	0.01424884	10	9.05E-01	0.177137821
WBGene00016588	0.056272866	6	5.12E-01	0.227900696
WBGene00016592	0.247582627	8	9.35E-02	0.393378858
WBGene00016587	0.107973135	7	3.43E-01	-0.188392081
WBGene00016586	-0.286450257	10	2.44E+01	-0.061312269
WBGene00016585	-0.023512092	20	3.66E+00	-0.100341369
WBGene00019579	-0.186033027	9	6.36E+00	0
WBGene00019580	-0.055876044	9	1.72E+00	-0.056568849

WBGene00008949	0.114135454	9	3.10E-01	-0.301253482
WBGene00006733	0.308566474	7	6.51E-02	0.126402874
WBGene00008948	0.715679957	28	1.70E-08	0.385841231
WBGene00235298	-0.52182926	2	4.17E+00	-0.514045995
WBGene00008950	-0.450884137	18	6.88E+03	-0.644843637
WBGene00013921	0.490132813	25	2.22E-05	0.416372334
WBGene00004756	0.538231363	26	4.60E-06	0.547945939
WBGene00000376	0.145201735	38	5.01E-02	0.218706833
WBGene00235129	-0.00791945	1	5.39E-01	-0.126511202
WBGene00009211	0.557670005	10	2.35E-03	0.23556747
WBGene00009212	0.4541167	9	1.01E-02	0.290530518
WBGene00009213	-0.267720451	4	2.98E+00	-0.164274854
WBGene00009215	-0.360517433	4	5.00E+00	-0.796848013
WBGene00009216	-0.099587171	4	1.16E+00	-0.358517408
WBGene00009217	0.387549882	14	5.17E-03	-0.370476106
WBGene00004492	0.302446665	3	1.48E-01	0.102249575
WBGene00009219	0.954118036	1	3.24E-02	1
WBGene00009218	-0.014579433	19	2.80E+00	-0.058934482
WBGene00001580	0.55204848	21	2.59E-05	0.600377051
WBGene00008580	0.839964648	11	5.43E-05	0.116632746
WBGene00008581	0.625906901	10	1.11E-03	0.155870787
WBGene00008582	0.544358299	10	2.72E-03	0.709418295
WBGene00008583	0.113746663	18	2.51E-01	0.197961183
WBGene00000704	0.11507493	2	3.67E-01	0.040235063
WBGene00023502	0.001903621	6	7.65E-01	0.092196713
WBGene00008584	-0.12610869	7	2.38E+00	-0.267347602
WBGene00007729	-0.12610554	5	1.63E+00	-0.046558876
WBGene00255469	-0.269603847	3	2.19E+00	-0.221699011
WBGene00007730	0.225971032	5	1.65E-01	0.694217692
WBGene00007731	0.027955612	5	5.99E-01	0.337541969
WBGene00001085	0.608745175	29	1.92E-07	0.370105539
WBGene00007732	0.091833332	12	3.83E-01	0.205396109
WBGene00007733	-0.25142881	9	1.23E+01	-0.899663751
WBGene00007734	-0.512223698	2	4.02E+00	-0.310716711
WBGene00007735	-0.629752211	17	9.24E+04	-0.212373263
WBGene00007736	0.259243903	38	8.30E-04	0.147924287
WBGene00011416	0	5	7.18E-01	0
WBGene00011417	0	4	6.64E-01	0
WBGene00011418	0	24	3.13E+00	0
WBGene00011419	0	5	7.18E-01	0
WBGene00011420	-0.006259515	4	6.88E-01	-0.008172106
WBGene00005689	-0.043293483	4	8.46E-01	-0.058511031
WBGene00001865	-0.122578615	14	8.56E+00	0.184898776
WBGene00005683	-0.717595222	9	1.34E+03	-0.393657249
WBGene00005682	0	3	6.15E-01	0.0018525
WBGene00005681	-0.100583984	9	2.69E+00	0.09404583
WBGene00005680	-0.018078166	2	6.09E-01	-0.006059269

WBGene00006630	0.001763328	3	6.10E-01	0
WBGene00005676	-0.170090243	4	1.72E+00	-0.221132157
WBGene00009955	-0.493235416	11	3.95E+02	0.085149147
WBGene00009957	-0.030400712	4	7.87E-01	-0.317090137
WBGene00009956	-0.453769615	10	1.53E+02	-0.294486772
WBGene00001820	0.175060463	12	1.33E-01	0.5522599
WBGene00014081	-0.243692476	23	7.07E+02	-0.072205475
WBGene00014082	0.031252648	12	8.29E-01	0.220103964
WBGene00014083	0.262183932	6	1.12E-01	0.02216613
WBGene00014084	0.086396029	5	4.10E-01	-0.568413217
WBGene00010671	0.574280935	18	6.02E-05	0.181556975
WBGene00002002	0.743524556	3	1.85E-02	0.389500793
WBGene00002368	0.445784111	17	8.49E-04	0.349252538
WBGene00010672	0.152090436	3	3.00E-01	0.026918705
WBGene00010673	-0.140707694	20	3.77E+01	-0.118927296
WBGene00010674	0.020400458	4	5.92E-01	0.045320573
WBGene00010675	0.498875032	5	2.81E-02	0.352117636
WBGene00000841	0.341765378	15	8.01E-03	0.201293
WBGene00003995	1	25	8.95E-14	1
WBGene00013224	0.319261338	15	1.13E-02	0.363740249
WBGene00013223	0.212719406	27	1.52E-02	0.381261615
WBGene00000186	0.425032142	37	2.89E-06	0.562485421
WBGene00219454	-0.07140748	2	7.47E-01	-0.029184074
WBGene00006916	-0.281339085	27	6.16E+03	-0.293153103
WBGene00007752	0.067637529	75	1.53E+00	0.009888471
WBGene00303042	-0.375989092	1	1.58E+00	0.253165198
WBGene00011941	0.417836745	3	8.60E-02	0.584633952
WBGene00235112	-0.083312416	2	7.82E-01	0.468295951
WBGene00011939	-0.086606702	20	1.28E+01	0.247755676
WBGene00011940	-0.055188699	44	1.44E+02	-0.138339224
WBGene00007780	-0.13626887	5	1.74E+00	-0.181128291
WBGene00007779	-0.147376625	17	2.30E+01	-0.32270647
WBGene00007778	-0.420643035	14	6.50E+02	-0.324832735
WBGene00007777	-0.202812643	6	3.47E+00	-0.20409512
WBGene00011949	-0.581255993	3	9.49E+00	0.00589754
WBGene00011950	-0.874118404	11	3.60E+04	-0.567280233
WBGene00011951	-0.728333781	8	7.21E+02	-0.220436038
WBGene00004315	-0.041527593	7	1.18E+00	0.010545365
WBGene00011952	-0.11956976	20	2.47E+01	-0.07657333
WBGene00007987	-0.818223939	13	9.34E+04	-0.447738033
WBGene00002128	-0.348421057	10	4.81E+01	-0.333185483
WBGene00001452	0.198491777	8	1.47E-01	0.26140286
WBGene00206520	-0.169426205	2	1.09E+00	-0.261186698
WBGene00006767	0.615151041	32	3.90E-08	0.592985544
WBGene00008554	0.201913187	7	1.58E-01	0.285510799
WBGene00008553	0	1	5.26E-01	0.008279309
WBGene00045067	-0.115614639	1	7.38E-01	-0.153232235

WBGene00004030	0.003189598	3	6.05E-01	-0.016115095
WBGene00008555	0.051772109	65	3.35E+00	-0.00754471
WBGene00010829	-0.071704497	7	1.52E+00	-0.066416284
WBGene00010828	0.224726877	15	4.87E-02	0.235419007
WBGene00010827	0.418022988	10	1.08E-02	0.351199813
WBGene00005153	0.05431837	9	5.66E-01	0.178729301
WBGene00014139	0.014510328	12	1.03E+00	0.077703628
WBGene00001543	-0.354250843	24	1.27E+04	-0.361241436
WBGene00014138	-0.202630608	7	4.49E+00	-0.299327733
WBGene00014137	-0.200316478	5	2.64E+00	-0.137267652
WBGene00014132	-0.534092922	9	2.11E+02	-0.534846473
WBGene00014136	-0.076197292	7	1.57E+00	-0.152272903
WBGene00014135	-0.134193181	11	5.60E+00	-0.044153937
WBGene00010660	-0.521808724	14	2.83E+03	-0.675379111
WBGene00010655	0	2	5.69E-01	0
WBGene00194926	0	3	6.15E-01	0
WBGene00194925	-2.09E-05	3	6.15E-01	-2.15E-05
WBGene00185092	-0.019024337	1	5.56E-01	-0.019529271
WBGene00194918	-0.663623072	2	7.16E+00	-0.612767658
WBGene00194919	-0.055108239	1	6.18E-01	-0.046433598
WBGene00010656	-0.004576264	2	5.79E-01	-0.001503774
WBGene00010657	-0.438838937	9	8.10E+01	-0.315847954
WBGene00010658	-0.238705798	7	6.05E+00	-0.138323541
WBGene00010659	-0.423229426	7	2.79E+01	-0.266708128
WBGene00007864	-0.90267295	10	2.09E+04	-0.943028997
WBGene00007865	0	4	6.64E-01	-0.07069762
WBGene00007866	-0.867855987	12	7.84E+04	-0.180650575
WBGene00007867	-0.11950848	6	1.87E+00	-0.185891837
WBGene00007868	-0.357050297	3	3.30E+00	-0.271597315
WBGene00007869	0.00326219	3	6.05E-01	-0.009255257
WBGene00007871	0	5	7.18E-01	0
WBGene00007872	-0.036229087	3	7.29E-01	-0.002179193
WBGene00007873	0	3	6.15E-01	-0.005619023
WBGene00007874	0	5	7.18E-01	0
WBGene00007875	-0.009947101	2	5.91E-01	-0.005443237
WBGene00007876	-0.041040484	4	8.36E-01	0.078845696
WBGene00010122	0.094493592	5	3.89E-01	0.037117989
WBGene00010129	-0.369261791	2	2.33E+00	-0.244273169
WBGene00010126	0	3	6.15E-01	0.125770925
WBGene00010127	-0.025344883	3	6.93E-01	-0.028091261
WBGene00010128	-0.003752079	2	5.77E-01	-0.004900261
WBGene00010125	-0.422168012	7	2.76E+01	-0.633763132
WBGene00010123	-0.156036906	7	3.05E+00	-0.295973137
WBGene00010124	-0.40830111	9	5.96E+01	-0.110684277
WBGene00010745	-0.250311893	4	2.70E+00	-0.29181173
WBGene00010746	-0.164202861	4	1.67E+00	-0.084167052
WBGene00010747	-0.102987794	6	1.66E+00	-0.055771162

WBGene00010750	-0.320801201	7	1.19E+01	-0.313745688
WBGene00010749	-0.114348124	8	2.58E+00	-0.063559432
WBGene00010748	-0.508931813	5	1.96E+01	-0.399775858
WBGene00045198	-0.207354334	7	4.66E+00	-0.477396478
WBGene00003150	0.351258021	62	1.05E-07	0.40111015
WBGene00009889	-0.364422989	9	3.83E+01	-0.284299899
WBGene00000134	-0.462094612	15	1.94E+03	-0.336332365
WBGene00009890	-0.302587589	2	1.80E+00	-0.551691789
WBGene00009891	-0.150519412	2	1.01E+00	-0.193350497
WBGene00009892	-0.081912646	4	1.05E+00	-0.601205661
WBGene00009893	-0.172164046	9	5.53E+00	-0.315906399
WBGene00004742	-0.628354075	4	2.24E+01	-0.709281493
WBGene00009895	-0.604530927	7	1.25E+02	-0.516830048
WBGene00009896	-0.344764413	4	4.58E+00	-0.521615888
WBGene00008027	-0.603227347	4	1.95E+01	-0.386862407
WBGene00000705	-0.703730302	9	1.17E+03	-0.419849192
WBGene00008028	-0.259406951	4	2.84E+00	-0.083676906
WBGene00008029	-0.338995468	3	3.03E+00	-0.483197147
WBGene00008030	-0.658829308	6	1.01E+02	-0.374233249
WBGene00008031	-0.202630332	13	2.11E+01	-0.014427706
WBGene00008032	-0.225300799	15	5.03E+01	-0.307609391
WBGene00008033	-1	21	1.03E+12	-2
WBGene00000706	-0.626406436	4	2.22E+01	-0.577411881
WBGene00008034	-0.116114094	7	2.19E+00	-0.259030038
WBGene00008035	-0.303671247	8	1.47E+01	-0.209667197
WBGene00004339	0.519885086	7	1.13E-02	0.270335895
WBGene00001007	0.556674507	11	1.56E-03	0.2366441
WBGene00044083	0.013614585	2	5.40E-01	0.017480551
WBGene00007201	0.240227567	6	1.32E-01	0.235705559
WBGene00007207	0.049786086	15	7.23E-01	0.407158453
WBGene00023421	0.334215616	8	4.22E-02	-0.032949198
WBGene00007202	-0.016163755	18	2.63E+00	-0.378175057
WBGene00007203	0.081840703	4	4.20E-01	-0.256723237
WBGene00007204	0.175444959	5	2.30E-01	-0.533391042
WBGene00006766	-0.38147647	16	8.49E+02	-0.397647168
WBGene00007206	0	14	1.44E+00	0
WBGene00007208	0.036725916	14	8.46E-01	0.03106041
WBGene00008623	0.694184458	7	2.67E-03	0.882886641
WBGene00008626	-0.285664391	4	3.29E+00	-0.158065652
WBGene00008624	-0.180660301	10	7.66E+00	0.019605859
WBGene00003421	-0.12757931	37	7.51E+02	-0.154966792
WBGene00008625	-0.07767062	4	1.03E+00	-0.293833618
WBGene00003533	-0.028303369	8	1.17E+00	-0.027229669
WBGene00002974	0.237045928	9	9.01E-02	0.228354462
WBGene00044978	-0.18695232	3	1.48E+00	0.249178306
WBGene00185077	-0.535616749	3	7.65E+00	-0.631494755
WBGene00206469	-0.390739341	14	4.21E+02	-0.205762736

WBGene00010241	-0.575267031	13	3.40E+03	-0.216323594
WBGene00008177	0	2	5.69E-01	-0.006212743
WBGene00000417	0.074421921	16	5.00E-01	-0.009587922
WBGene00194643	0.004278781	5	6.98E-01	-0.008859251
WBGene00000501	0.346999227	7	4.74E-02	0.313046759
WBGene00008178	0.005532418	29	3.95E+00	0.057496885
WBGene00010435	0.028025825	12	8.64E-01	0.070459263
WBGene00006466	0.259926724	10	6.13E-02	0.022557649
WBGene00004424	1	11	7.17E-08	0.453480529
WBGene00003037	0.508392209	17	2.89E-04	0.474883002
WBGene00010436	0.277819571	4	1.40E-01	0.226414692
WBGene00010437	0.022460097	9	7.81E-01	-0.021552254
WBGene00010439	-0.011963555	10	1.21E+00	-0.013311571
WBGene00010440	-0.022778649	5	8.32E-01	-0.169633962
WBGene00044737	-0.076462457	11	2.83E+00	-0.588297527
WBGene00010442	-0.100877825	5	1.38E+00	0.029248365
WBGene00194915	-0.052354281	9	1.66E+00	0.095088321
WBGene00006763	-0.003538029	33	7.03E+00	0.119723372
WBGene00013460	0.016786868	24	2.11E+00	0.041509721
WBGene00013465	0.046855944	11	6.56E-01	0.104733268
WBGene00013461	0.617717566	27	3.85E-07	0.844941729
WBGene00013462	1	9	2.14E-05	0.898960749
WBGene00013463	0.778362745	6	2.47E-03	0.137913409
WBGene00000818	0.180223905	11	1.35E-01	0.56157559
WBGene00013464	-0.00646442	19	2.40E+00	0.081924233
WBGene00001393	0.642384568	11	5.65E-04	0.799513049
WBGene00001394	-0.143892424	8	3.39E+00	-0.265037514
WBGene00001390	0.255934392	3	1.84E-01	0.364075219
WBGene00004156	-1	12	1.08E+06	-0.786278884
WBGene00012190	-0.264305636	16	1.26E+02	-0.787820578
WBGene00044280	-0.083786194	3	9.12E-01	-0.229117895
WBGene00004333	-0.165055913	24	1.50E+02	-0.187723235
WBGene00003230	-0.339511032	11	6.38E+01	-0.390465906
WBGene00012191	0.134004061	10	2.44E-01	-0.113764982
WBGene00013374	-0.286740944	4	3.31E+00	-0.324610487
WBGene00013375	0.215832154	13	7.03E-02	0.612746581
WBGene00000093	0.392918932	9	1.88E-02	-0.232135665
WBGene00004410	1	2	8.01E-03	0.815000603
WBGene00013373	0.422790976	2	1.13E-01	0.352600419
WBGene00302968	0.035933273	3	5.19E-01	0.197902054
WBGene00013376	-0.013406086	11	1.34E+00	0.068126368
WBGene00003142	0.167213317	5	2.42E-01	0.069642892
WBGene00013378	0.469248656	12	3.12E-03	-0.103223454
WBGene00004278	0.111245297	8	3.26E-01	0.068836331
WBGene00044745	-0.096545589	2	8.22E-01	0.295754865
WBGene00302964	0.027613093	2	5.12E-01	1
WBGene00014938	0.086179344	6	4.10E-01	0.571198819

WBGene00003077	0.079388825	5	4.29E-01	0.168673703
WBGene00013379	-0.145602506	16	1.81E+01	-0.110855854
WBGene00013380	-0.40746522	10	9.19E+01	-1
WBGene00013381	-0.091492699	7	1.79E+00	-0.133465798
WBGene00013385	-0.279733133	13	6.05E+01	-0.289950185
WBGene00013382	-0.009657554	9	1.08E+00	0.148458799
WBGene00013383	-0.262159678	11	2.55E+01	-0.031709528
WBGene00004029	-0.079028765	10	2.51E+00	-0.033729483
WBGene00010709	-0.074144832	15	4.89E+00	-0.135547069
WBGene00010711	0.227055804	4	1.86E-01	0.089982393
WBGene00010712	-0.225088734	11	1.65E+01	-0.210036989
WBGene00010714	-0.304047041	43	2.96E+06	-0.221379151
WBGene00010713	0.172658925	19	8.00E-02	0.217806719
WBGene00012640	-0.163988108	3	1.33E+00	-0.131209348
WBGene00206493	0.003838638	1	5.21E-01	-0.021855117
WBGene00012639	-0.05839522	8	1.55E+00	-0.079861309
WBGene00012638	-0.80396444	11	1.57E+04	-1
WBGene00012637	-0.537451376	8	1.25E+02	-0.920413455
WBGene00012636	-0.564284031	7	8.96E+01	-0.888862296
WBGene00012868	-0.074331054	90	2.38E+05	-0.127058828
WBGene00012635	0.119779163	5	3.30E-01	0.07375055
WBGene00012869	-0.422619384	17	2.62E+03	-0.428910004
WBGene00003755	0.644266363	2	4.87E-02	0.262345889
WBGene00012867	-0.026142263	7	1.04E+00	0.198266573
WBGene00012866	-0.30122971	14	1.15E+02	-0.107659088
WBGene00004239	-0.303004309	7	1.03E+01	-0.15193042
WBGene00003582	0.030661082	12	8.35E-01	0.044910574
WBGene00004681	0.004481162	51	2.05E+01	0.076883658
WBGene00009943	0.252082907	13	4.29E-02	-0.067768198
WBGene00012875	0.495819065	28	6.47E-06	0.226541083
WBGene00004265	0.131287212	58	3.73E-02	0.133844838
WBGene00005088	-0.264736243	5	4.00E+00	0.02514741
WBGene00012872	-0.669373375	7	2.14E+02	-0.426985729
WBGene00005679	-0.009688581	4	7.01E-01	-0.011134909
WBGene00005675	0.084736594	4	4.13E-01	-0.062636865
WBGene00005674	-0.009420987	3	6.43E-01	-0.027236028
WBGene00012874	-0.260208374	4	2.85E+00	-0.114144294
WBGene00005672	-0.065092837	2	7.29E-01	-0.012631827
WBGene00006631	-0.0665618	4	9.64E-01	-0.116326446
WBGene00012871	-0.236982661	2	1.40E+00	-0.19556806
WBGene00012873	-0.853987842	7	9.86E+02	-0.840044808
WBGene00194917	-0.255276499	5	3.77E+00	-0.379443063
WBGene00007460	-0.21947629	7	5.16E+00	-0.011240667
WBGene00007452	-0.202765241	4	2.07E+00	0
WBGene00007450	0	3	6.15E-01	0.00063941
WBGene00005684	-0.187971755	15	2.83E+01	-0.27638613
WBGene00007453	-0.090349142	7	1.77E+00	-0.002550758

WBGene00007454	-0.421703539	7	2.75E+01	-0.80072954
WBGene00007455	-0.260411394	10	1.83E+01	-0.296780227
WBGene00007456	-0.001705738	3	6.20E-01	-0.023114235
WBGene00007458	-0.214271832	2	1.29E+00	0.180746229
WBGene00007457	-0.026759637	5	8.54E-01	-0.050611141
WBGene00045069	-0.107270983	2	8.56E-01	-0.19082325
WBGene00007459	-0.222647623	1	1.01E+00	-0.147897211
WBGene00044256	-0.000643947	3	6.17E-01	0.11320392
WBGene00012877	-0.261965316	10	1.87E+01	-0.287360473
WBGene00012878	-0.009978538	2	5.91E-01	-0.139940147
WBGene00012880	-0.160038226	4	1.63E+00	-0.013795662
WBGene00012879	-0.187975183	8	5.08E+00	-0.487046768
WBGene00011960	-0.623173713	9	5.18E+02	-0.189377849
WBGene00011961	-0.596851117	7	1.17E+02	-0.719540397
WBGene00011959	-0.301791286	11	4.08E+01	-0.611903823
WBGene00011958	0.360543845	7	4.24E-02	0.146488002
WBGene00219243	0.15921978	9	1.97E-01	-0.144074915
WBGene00006580	0.1962764	4	2.21E-01	0.436770853
WBGene00008122	-0.376540087	4	5.47E+00	-0.269882753
WBGene00008123	-0.374603404	16	7.59E+02	-0.358062846
WBGene00008124	-0.008119103	7	8.96E-01	-0.353033624
WBGene00008125	-0.237283567	3	1.88E+00	-0.275435773
WBGene00012891	0.114184888	40	1.45E-01	0.222300961
WBGene00012883	0.117150146	4	3.45E-01	-0.097469882
WBGene00044257	-0.371782527	5	8.02E+00	-0.014329288
WBGene00004430	1	5	6.03E-04	0.274024587
WBGene00001635	0.865961147	14	4.96E-06	0.440831114
WBGene00012890	0.117063052	12	2.78E-01	0.531094922
WBGene00012885	0.119836088	4	3.39E-01	0.817598209
WBGene00012889	0.09980267	4	3.80E-01	0.095985383
WBGene00012888	0.425687874	7	2.47E-02	0.147915956
WBGene00012887	0.004625854	16	1.56E+00	0.006556852
WBGene00012886	-0.018259944	3	6.70E-01	-0.296842019
WBGene00012892	-0.17891102	6	2.91E+00	0.089207096
WBGene00012893	0.005674941	9	9.24E-01	0.010315412
WBGene00010374	0.021105343	26	2.15E+00	0.078400856
WBGene00010373	0.139928522	7	2.63E-01	0.1081832
WBGene00007200	-0.000954552	6	7.81E-01	-0.002993585
WBGene00235301	-0.132061043	2	9.41E-01	0.06594843
WBGene00007197	0.245264396	13	4.71E-02	0.163632891
WBGene00007196	0.278003807	4	1.40E-01	0.239780266
WBGene00004443	0.969590948	2	1.41E-02	1
WBGene00007195	1	12	2.27E-07	0.410512019
WBGene00001562	0.772797104	29	1.97E-09	0.726888582
WBGene00012536	0.052389554	9	5.78E-01	0.013547582
WBGene00012535	-0.00212825	11	1.17E+00	-0.110133147
WBGene00045063	-0.101943758	56	7.51E+03	-0.086112831

WBGene00044989	0.290556483	55	1.22E-05	0.326089991
WBGene00001575	0.286035514	6	9.38E-02	0.482881915
WBGene00006598	0.059062577	9	5.40E-01	-0.028170518
WBGene00006597	-0.203001952	6	3.47E+00	0.128813898
WBGene00001190	0.052287818	30	1.10E+00	0.078006352
WBGene00005810	0.038353973	5	5.59E-01	0.084110852
WBGene00012542	-0.025046801	7	1.03E+00	0.047265495
WBGene00012541	0.047327954	6	5.47E-01	0.00604396
WBGene00012540	-0.183612592	10	7.91E+00	-0.666343873
WBGene00012538	-0.765817825	28	4.16E+09	-0.348584362
WBGene00012537	-0.167827384	1	8.60E-01	-0.319371221
WBGene00003086	0.179208123	52	4.65E-03	-0.106323475
WBGene00003085	0.363385008	23	7.96E-04	0.140185708
WBGene00009924	0.060077109	15	6.17E-01	-0.04955703
WBGene00009925	0.140019138	9	2.39E-01	-0.25370876
WBGene00009926	-0.242657	25	1.24E+03	-0.579408181
WBGene00000707	-0.090577187	4	1.10E+00	-0.209652936
WBGene00009927	-0.021336702	1	5.60E-01	0.002529605
WBGene00002117	-0.002858448	4	6.75E-01	0.02716072
WBGene00012543	0.001435076	25	3.27E+00	0.06824407
WBGene00194920	-0.015909597	1	5.51E-01	-0.01224867
WBGene00010388	0.04981794	5	5.19E-01	0.130738803
WBGene00010394	-0.000432656	5	7.20E-01	-0.048767231
WBGene00010389	0	5	7.18E-01	0
WBGene00010391	-0.341367353	14	2.05E+02	-0.307680895
WBGene00010392	-0.66939979	9	8.25E+02	-0.148196097
WBGene00011025	-0.11195872	7	2.12E+00	0.072259538
WBGene00011024	0.094278479	9	3.79E-01	-0.075719759
WBGene00011023	-0.056016704	8	1.51E+00	-0.085255615
WBGene00011021	-0.20605287	3	1.62E+00	-0.733624234
WBGene00011020	-0.203414967	11	1.27E+01	-0.224613498
WBGene00011019	-0.180712297	5	2.32E+00	-0.022121481
WBGene00011018	-0.040948672	18	4.12E+00	-0.053705712
WBGene00271789	-0.367470322	5	7.80E+00	-0.33149834
WBGene00010483	-0.434332054	13	4.98E+02	-0.604865851
WBGene00008535	-0.238976064	11	1.94E+01	-0.302513727
WBGene00008536	-0.686521285	16	1.23E+05	-0.768726147
WBGene00008538	0.778039971	8	7.21E-04	0.689077428
WBGene00008540	0.001792847	5	7.09E-01	0.083903178
WBGene00008539	-0.154579828	3	1.27E+00	0.001700756
WBGene00013411	-0.088183308	7	1.74E+00	-0.162725057
WBGene00045144	-0.000856326	4	6.67E-01	0
WBGene00013412	-0.061097057	5	1.07E+00	0.087099211
WBGene00013417	-0.009827805	9	1.08E+00	0.026481881
WBGene00013415	0.568761307	25	3.27E-06	0.605027604
WBGene00013416	-0.206780051	62	8.46E+06	-0.169388751
WBGene00013454	-0.03197993	5	8.83E-01	0.00121239

WBGene00013453	-0.138834674	10	4.84E+00	0.530600433
WBGene00013452	-0.15151467	24	1.09E+02	-0.165039435
WBGene00013451	-0.084762045	2	7.86E-01	-0.001353474
WBGene00044906	-0.118791741	6	1.86E+00	-0.003968869
WBGene00013459	-0.067132682	2	7.35E-01	-0.197538696
WBGene00013450	-0.02373809	9	1.24E+00	-0.03429263
WBGene00013455	0.072956072	16	5.12E-01	0.139133777
WBGene00013456	-0.043694658	16	3.43E+00	0.311229688
WBGene00013457	-0.52519007	11	5.76E+02	-0.06776822
WBGene00013458	-0.14728064	24	9.90E+01	-0.230428705
WBGene00010083	-0.065792812	24	1.46E+01	-0.167775493
WBGene00044249	-0.004640012	2	5.79E-01	-0.001517486
WBGene00045060	-0.084028669	4	1.06E+00	-0.037266068
WBGene00010084	0	2	5.69E-01	-0.018655782
WBGene00010085	0	2	5.69E-01	0
WBGene00010087	-0.026849663	2	6.30E-01	-0.034726591
WBGene00010086	-0.006862138	1	5.37E-01	-0.011191933
WBGene00006606	-0.330619849	21	2.39E+03	-0.205796209
WBGene00010793	0.034538832	6	6.01E-01	-0.035558081
WBGene00010794	-0.098876807	15	7.16E+00	0.075130723
WBGene00013292	-0.063952552	4	9.50E-01	0.009473565
WBGene00013289	0.131354781	39	7.92E-02	0.303530135
WBGene00013293	0.018579397	2	5.30E-01	-0.03344694
WBGene00013290	-0.572340842	16	1.91E+04	-0.035899079
WBGene00012087	-0.337423017	5	6.42E+00	0.089038978
WBGene00005285	0.069341011	5	4.58E-01	-0.123390545
WBGene00012088	0.003214713	3	6.05E-01	-0.000617978
WBGene00012089	-0.059788839	2	7.15E-01	-0.068707672
WBGene00012090	-0.374965163	6	1.24E+01	-0.212174433
WBGene00012091	0	7	8.38E-01	-0.099534354
WBGene00012093	-0.110593503	8	2.50E+00	-0.131882726
WBGene00013294	-0.139152643	10	4.86E+00	-0.027274898
WBGene00013298	0	2	5.69E-01	0
WBGene00013295	0	2	5.69E-01	0.002473785
WBGene00077763	0.028654088	3	5.37E-01	-0.007557698
WBGene00013296	0.421272734	3	8.46E-02	0.492756345
WBGene00013297	2	7	4.18E-08	3
WBGene00255522	0.66437315	1	7.55E-02	1
WBGene00045061	0.619133953	3	3.33E-02	0.98717217
WBGene00013299	0.15471498	3	2.97E-01	0.351591298
WBGene00007058	0.327021139	34	1.71E-04	-0.069659236
WBGene00008772	0.026674542	2	5.14E-01	0
WBGene00045038	0.104067415	3	3.77E-01	-0.003764581
WBGene00013328	-0.017292739	6	8.81E-01	-0.044489144
WBGene00013322	0.020521838	19	1.44E+00	0.029767109
WBGene00013323	0.666185763	5	9.49E-03	0.061439002
WBGene00013326	0.04331582	31	1.49E+00	0.166511358

WBGene00013321	-0.155886782	10	5.84E+00	0.070939301
WBGene00219342	0	2	5.69E-01	0
WBGene00001818	-0.429385229	13	4.66E+02	-0.217404447
WBGene00013329	-0.023309036	3	6.86E-01	-0.022688738
WBGene00013330	-0.13797423	3	1.18E+00	0.055257049
WBGene00013300	-0.150557307	18	3.00E+01	-0.096792649
WBGene00013338	-0.291865095	12	5.09E+01	-0.253243577
WBGene00013331	-0.122441819	18	1.80E+01	-0.191729417
WBGene00077762	-0.415620353	7	2.62E+01	-0.328566124
WBGene00013305	-0.136951336	5	1.75E+00	-0.273838509
WBGene00013304	-0.257622502	15	8.28E+01	-0.504836468
WBGene00013303	0.283636933	7	8.01E-02	0.392804529
WBGene00013302	0.41978948	8	1.93E-02	0.109304501
WBGene00013324	0.522214173	7	1.11E-02	0.094745954
WBGene00013301	0.245091721	7	1.10E-01	-0.102644472
WBGene00013332	0.051514453	9	5.83E-01	-0.2927342
WBGene00013333	0.585687265	3	3.90E-02	0.669730715
WBGene00013325	0.313433758	8	5.11E-02	0.708466038
WBGene00044258	1	5	3.48E-04	0.579993866
WBGene00013306	-0.462726451	5	1.45E+01	-0.500234355
WBGene00194649	-0.263286411	3	2.12E+00	-0.23490193
WBGene00013334	-0.122705274	3	1.10E+00	0.240884292
WBGene00013307	0.410567801	17	1.56E-03	0.075985628
WBGene00001558	1	10	5.87E-07	0.607555552
WBGene00000763	0.482594661	11	3.75E-03	0.272851704
WBGene00013308	-0.101007718	4	1.17E+00	0.574296934
WBGene00303007	-0.09110914	2	8.05E-01	0.492326493
WBGene00000192	0.04869312	6	5.41E-01	0.271426599
WBGene00013310	0.022244672	4	5.86E-01	-0.105426465
WBGene00206490	-0.01409253	1	5.49E-01	0.034795192
WBGene00023520	0.196165426	14	8.34E-02	0.200762061
WBGene00013335	0.001674851	4	6.58E-01	-0.034607661
WBGene00013311	0.884469321	15	1.86E-06	0.013937979
WBGene00004487	1	4	3.88E-04	1
WBGene00013312	0.648297845	7	3.91E-03	0.713535593
WBGene00013317	0.510426042	42	2.19E-08	0.475241415
WBGene00013315	0.450295128	7	2.01E-02	0.466083276
WBGene00044741	0.008709451	1	5.13E-01	0.396122745
WBGene00013318	0	9	9.79E-01	-0.023249354
WBGene00013327	-0.004474149	12	1.31E+00	-0.007398651
WBGene00001330	0.015787468	39	5.59E+00	0.18566021
WBGene00013336	0.044419526	10	6.50E-01	-0.016320522
WBGene00013319	-0.124135839	1	7.57E-01	-0.154742621
WBGene00014924	-0.383133096	8	3.04E+01	-0.292995819
WBGene00194661	-0.53733495	4	1.35E+01	-0.87849744
WBGene00219443	0	2	5.69E-01	-0.038487952
WBGene00014926	0.002778272	7	8.19E-01	-0.046413175

WBGene00013337	-0.115058595	5	1.52E+00	-0.000290571
WBGene00045146	0.109065797	4	3.61E-01	0.198432819
WBGene00012762	0.398330126	21	6.31E-04	0.336520377
WBGene00012763	-0.075025491	26	2.43E+01	-0.029985297
WBGene00001066	-0.085533002	4	1.07E+00	-0.085303811
WBGene00012764	-0.257160694	7	7.05E+00	-0.718422672
WBGene00001336	0.11831182	14	2.58E-01	0.284513071
WBGene00012765	0.079498568	37	5.28E-01	0.113821559
WBGene00012767	0.100813069	35	2.56E-01	-0.034321655
WBGene00012766	-0.090278428	2	8.03E-01	-0.083957489
WBGene00012768	0.904071828	23	4.01E-09	-0.290679002
WBGene00012769	0.452137894	41	3.03E-07	0.241881556
WBGene00012770	-0.006896621	10	1.14E+00	0.054238624
WBGene00044979	0	4	6.64E-01	-0.265367479
WBGene00012771	0	2	5.69E-01	0
WBGene00044003	-0.137866403	10	4.79E+00	0.024346142
WBGene00012773	-0.01486618	6	8.66E-01	0.018386645
WBGene00012775	-0.044712533	17	3.93E+00	-0.084077254
WBGene00012772	0.000918224	11	1.13E+00	0.009551762
WBGene00010950	-0.37334561	8	2.78E+01	-0.488878259
WBGene00010951	-0.485107479	7	4.65E+01	-0.252853094
WBGene00219395	-0.007190703	1	5.38E-01	0
WBGene00255545	0	1	5.26E-01	0
WBGene00255546	0	3	6.15E-01	0
WBGene00010954	0	3	6.15E-01	0
WBGene00010955	0	1	5.26E-01	0
WBGene00010953	-0.305557319	5	5.22E+00	-0.219677472
WBGene00044998	-0.198046065	3	1.56E+00	-0.087053089
WBGene00000708	-0.474593631	10	1.92E+02	-0.519905864
WBGene00010956	-0.112351652	2	8.73E-01	-0.027549875
WBGene00005208	-0.121505958	6	1.90E+00	-0.121895703
WBGene00006138	-0.064096729	7	1.42E+00	-0.049712529
WBGene00012742	-0.06511899	6	1.25E+00	0.013714498
WBGene00012743	-0.039653006	8	1.30E+00	0.022001918
WBGene00012744	-0.03965847	9	1.46E+00	-0.005353
WBGene00005101	-0.227998541	12	2.26E+01	0.033567708
WBGene00005056	-0.16042293	33	9.83E+02	-0.114492335
WBGene00012747	-0.425481849	18	4.34E+03	-0.283515884
WBGene00012748	-1	3	1.29E+02	-1
WBGene00004035	-0.311610971	19	7.89E+02	0.079925895
WBGene00013517	0.02217619	12	9.31E-01	0.057345174
WBGene00044259	0	1	5.26E-01	0
WBGene00005625	-0.184235963	4	1.86E+00	-0.080504233
WBGene00013518	0.283227527	25	3.42E-03	0.300979992
WBGene00000370	0.087881271	10	4.04E-01	0.164379504
WBGene00004170	1	1	7.56E-03	1
WBGene00004171	0.013662776	1	5.06E-01	0.010651815

WBGene00013519	-0.089771009	3	9.38E-01	-0.221194824
WBGene00013520	0.02017802	18	1.36E+00	-0.045228957
WBGene00013521	2	3	1.79E-04	2
WBGene00013522	0.664546365	4	1.61E-02	0.468084441
WBGene00013523	2	3	3.57E-04	2
WBGene00013524	0.171250328	2	2.96E-01	0.081370376
WBGene00006558	0.109715352	6	3.45E-01	0.302067025
WBGene00006559	-0.156497861	6	2.46E+00	-0.153550316
WBGene00013525	-0.086436903	10	2.73E+00	-0.104422746
WBGene00006441	0.002042416	15	1.51E+00	-0.022133688
WBGene00013526	-0.164522391	9	5.13E+00	-0.096609002
WBGene00194930	0	1	5.26E-01	0
WBGene00003604	0	6	7.76E-01	-0.01052582
WBGene00013527	0.024594828	8	7.23E-01	-0.112075204
WBGene00013528	0.003762939	5	7.00E-01	-0.393485656
WBGene00013529	-0.034938094	17	3.32E+00	0.005489329
WBGene00013530	0.008066429	21	2.10E+00	0.030899761
WBGene00013532	0.452032205	4	5.28E-02	0.525248408
WBGene00013531	0.225267409	6	1.47E-01	0.31877938
WBGene00013534	-0.107874296	18	1.39E+01	-0.007582366
WBGene00013536	1	2	6.12E-03	0.765785789
WBGene00013538	0.199615432	11	1.07E-01	0.017064978
WBGene00013539	-0.169069352	13	1.34E+01	-0.035813072
WBGene00013632	-0.051533591	15	3.45E+00	0.023383769
WBGene00004158	0	1	5.26E-01	0
WBGene00077752	-0.133471683	6	2.08E+00	-0.027219074
WBGene00000028	-0.00429266	1	5.33E-01	0.010651815
WBGene00004159	0	1	5.26E-01	-0.006539174
WBGene00004160	0	1	5.26E-01	-0.008255095
WBGene00013633	-0.033388581	7	1.10E+00	-0.003003166
WBGene00013634	0.067020684	7	4.81E-01	-0.035856583
WBGene00194951	-0.028411862	3	7.03E-01	0.122215209
WBGene00013635	-0.115614639	1	7.38E-01	0.272019332
WBGene00013637	-0.234254294	7	5.83E+00	-0.086704043
WBGene00013636	-0.185354987	2	1.15E+00	0.057483105
WBGene00185102	0.404608094	3	9.15E-02	0.530830703
WBGene00194913	1	1	1.42E-02	0.025171961
WBGene00044263	-0.263681051	2	1.56E+00	0.043249375
WBGene00013639	0.203733677	56	9.33E-04	0.222449246
WBGene00220254	0	1	5.26E-01	0
WBGene00194931	0.438556853	3	7.80E-02	0.410704461
WBGene00013642	0.495751366	19	1.73E-04	0.408068146
WBGene00194646	-0.00799648	5	7.56E-01	-0.003011566
WBGene00194645	-0.21733138	3	1.71E+00	-0.100662424
WBGene00013643	-0.316883478	11	4.88E+01	-0.092586471
WBGene00013645	0	5	7.18E-01	0
WBGene00001549	-0.033846589	18	3.63E+00	-0.053073655

WBGene00013646	-0.124018708	11	4.97E+00	-0.233008667
WBGene00005725	-0.08041924	4	1.04E+00	0
WBGene00013647	-0.182858013	3	1.45E+00	0.072223312
WBGene00005726	0.017059419	7	7.28E-01	0.005030074
WBGene00013649	0	7	8.38E-01	-0.007241754
WBGene00013650	3	8	3.79E-12	2
WBGene00005727	2	6	1.01E-06	2
WBGene00013651	0.116282546	11	2.88E-01	0.099375997
WBGene00004816	0.02461619	2	5.18E-01	-0.182041247
WBGene00013653	-0.047913154	4	8.69E-01	0.116860746
WBGene00013654	-0.007454833	4	6.93E-01	-0.008388912
WBGene00013655	-0.071624068	10	2.32E+00	0.069961002
WBGene00013656	-0.017919315	3	6.69E-01	0.009928393
WBGene00013657	-0.123188485	5	1.60E+00	0
WBGene00013658	0.349568191	7	4.64E-02	0.078276858
WBGene00013659	0.075593318	6	4.44E-01	-0.052428934
WBGene00002175	0.220460163	53	5.59E-04	0.210952905
WBGene00219478	-0.236882865	3	1.87E+00	0.078729013
WBGene00013665	-0.119105377	6	1.87E+00	0.084124625
WBGene00013662	0.007712939	8	8.44E-01	-0.032495091
WBGene00001604	0.449775515	13	2.90E-03	0.011229375
WBGene00194929	-0.033453914	2	6.46E-01	0.057068643
WBGene00012416	-0.096935812	9	2.60E+00	-0.152794923
WBGene00010411	-0.282765589	9	1.68E+01	-0.228460541
WBGene00010412	0	1	5.26E-01	0
WBGene00005722	-0.120443389	7	2.27E+00	-0.089556916
WBGene00010413	-0.001971956	2	5.73E-01	-0.012648597
WBGene00010414	-0.078096286	7	1.60E+00	-0.078725167
WBGene00010415	-0.004155295	9	1.02E+00	-0.049104553
WBGene00005808	-0.717539627	7	3.19E+02	-0.578507184
WBGene00009535	-0.08760918	7	1.73E+00	-0.006275582
WBGene00001961	0.003183852	3	6.06E-01	0.004950913
WBGene00009540	-0.020318729	5	8.19E-01	-0.01109483
WBGene00009536	0.045907985	5	5.33E-01	-0.104951279
WBGene00009539	-0.288418848	4	3.34E+00	-0.06403047
WBGene00009537	-0.147519734	3	1.23E+00	-0.141841242
WBGene00009538	-0.559228473	6	4.83E+01	0.009807191
WBGene00023517	-0.263919141	5	3.98E+00	-0.686427843
WBGene00023514	0	4	6.64E-01	-0.030928654
WBGene00004287	-0.131789056	3	1.14E+00	0.268973041
WBGene00010531	-0.027514445	1	5.70E-01	-0.012049265
WBGene00010530	-0.019836897	4	7.42E-01	0.024364349
WBGene00043052	-0.00863658	5	7.59E-01	0.139408789
WBGene00044587	-0.407765139	4	6.52E+00	-0.095515068
WBGene00010528	-0.453783334	3	5.21E+00	-0.317517281
WBGene00010527	-0.156819523	4	1.60E+00	-0.069106257
WBGene00023513	-0.039073861	8	1.30E+00	-0.158112763

WBGene00023508	-0.25440043	2	1.50E+00	-0.064865486
WBGene00045101	-0.513374371	7	5.88E+01	-0.158922496
WBGene00005436	-0.007117119	5	7.52E-01	0
WBGene00005435	0	5	7.18E-01	0
WBGene00007960	-0.693804442	2	8.03E+00	-0.013264021
WBGene00007961	-0.248347346	5	3.60E+00	-0.572296951
WBGene00012420	0.098478703	1	3.95E-01	0.226225001
WBGene00185101	0.077745589	4	4.30E-01	0.086367869
WBGene00013418	2	6	2.89E-07	2
WBGene00013419	0.040550634	5	5.52E-01	0.116915355
WBGene00012423	0.051164262	10	6.04E-01	0.062567092
WBGene00012424	0.011806452	8	8.13E-01	0.250167326
WBGene00012425	0	3	6.15E-01	-0.030158331
WBGene00012159	-0.564686171	10	5.14E+02	0.20961723
WBGene00013098	0.004750116	6	7.49E-01	-0.001566169
WBGene00219244	-0.007355796	1	5.38E-01	0.032450546
WBGene00004357	0.288001563	9	5.39E-02	0.328774935
WBGene00013100	0.073838715	5	4.44E-01	0.041269633
WBGene00194647	0.049458152	2	4.71E-01	-0.008976795
WBGene00013101	-0.285643034	11	3.37E+01	-0.370519786
WBGene00194927	0	1	5.26E-01	0
WBGene00013102	0	1	5.26E-01	0
WBGene00013103	-0.143722163	22	6.04E+01	-0.062158714
WBGene00013104	-0.027200711	10	1.42E+00	0.20348077
WBGene00000710	-0.380185518	12	1.57E+02	-0.361516396
WBGene00013105	-0.359642924	2	2.24E+00	-0.414947422
WBGene00013120	-0.016321886	1	5.52E-01	0.006787521
WBGene00194924	-0.014298518	1	5.49E-01	0
WBGene00045178	-0.279098466	2	1.65E+00	-0.013775084
WBGene00013107	-0.230386862	18	1.27E+02	-0.004087687
WBGene00013106	0.465707281	33	2.69E-06	0.480659187
WBGene00013109	0.001044754	1	5.25E-01	-0.007441749
WBGene00013111	0.603131451	13	3.58E-04	0.784334435
WBGene00255553	0	3	6.15E-01	0.063209057
WBGene00013116	-0.289892884	12	4.96E+01	0.006803879
WBGene00013117	-0.085799866	5	1.25E+00	0.037895374
WBGene00013119	-0.159255944	20	5.45E+01	0.0407396
WBGene00013118	-0.221043734	10	1.19E+01	-0.054873659
WBGene00012787	-0.25064955	4	2.70E+00	0.473771645
WBGene00012788	0.276721222	21	7.90E-03	0.317730406
WBGene00012789	-0.209606302	2	1.27E+00	0.026908634
WBGene00012790	0.034779263	4	5.47E-01	0.172964099
WBGene00012791	0.496932867	40	7.76E-08	0.953378268
WBGene00012792	0.020404856	5	6.29E-01	-0.045931332
WBGene00013774	-0.077595578	4	1.03E+00	-0.183440789
WBGene00013773	0	2	5.69E-01	0
WBGene00013775	-0.332205564	7	1.31E+01	0.247196663

WBGene00013776	0.145170545	8	2.39E-01	0.202865386
WBGene00013777	0.01722623	2	5.33E-01	-0.093380136
WBGene00013778	0	3	6.15E-01	-0.006422277
WBGene00219241	0.026186671	1	4.88E-01	0.009004028
WBGene00003130	0.022351053	28	2.33E+00	0.073567173
WBGene00020284	0.169052888	32	3.30E-02	0.240329203
WBGene00020287	0.093892519	10	3.78E-01	0.062688806
WBGene00020286	0.891623003	7	5.22E-04	0.398214153
WBGene00235300	0.4196275	3	8.52E-02	0.048215693
WBGene00219547	0.191237206	2	2.74E-01	-0.08842873
WBGene00020285	0.003997078	4	6.49E-01	0.057930077
WBGene00013784	-0.17254629	4	1.75E+00	0.034641017
WBGene00235305	-0.1703575	5	2.17E+00	0.005214718
WBGene00235304	-0.322285364	2	1.95E+00	-0.091419199
WBGene00255611	-0.661670871	1	3.64E+00	-0.690006914
WBGene00194672	-0.562095398	3	8.67E+00	-0.473830907
WBGene00013785	-0.222467231	17	8.36E+01	-0.38784792
WBGene00013786	-0.794190399	20	1.66E+07	-0.563136884
WBGene00045128	-1	5	6.16E+02	-0.355643287
WBGene00013790	0.034540554	10	7.24E-01	0.01270918
WBGene00013789	0.074019135	14	4.92E-01	0.075302053
WBGene00000184	-0.008038624	4	6.95E-01	0.000846978
WBGene00013792	-0.04317317	41	6.20E+01	-0.043381194
WBGene00004402	-0.362716604	19	2.08E+03	-0.226608431
WBGene00013791	-0.005964052	2	5.82E-01	-0.071236071
WBGene00004403	-0.072213873	41	1.90E+02	-0.010405682
WBGene00013794	-1	5	7.16E+02	-0.48844559
WBGene00013795	-0.024455497	6	9.29E-01	-0.029558354
WBGene00013796	-0.313036603	5	5.48E+00	0.160337155
WBGene00013797	-0.677730648	4	2.96E+01	-0.446490313
WBGene00013798	-0.067039262	7	1.46E+00	0.097859879
WBGene00013799	0	3	6.15E-01	-0.002654021
WBGene00013800	-0.287925508	10	2.48E+01	-0.270760658
WBGene00013815	-0.000864816	1	5.28E-01	-0.006539174
WBGene00219332	-0.000864816	1	5.28E-01	-0.006539174
WBGene00194957	-0.010429469	1	5.43E-01	-0.006822815
WBGene00013801	-0.137546601	14	1.06E+01	-0.277553833
WBGene00013802	-0.01259432	7	9.30E-01	-0.011355609
WBGene00013803	0.133870827	23	1.41E-01	0.084613692
WBGene00004914	0.21049305	4	2.04E-01	0.033876814
WBGene00013814	0.116360546	2	3.65E-01	0.080313899
WBGene00013804	0.060268624	5	4.85E-01	-0.000965221
WBGene00013806	0.209943966	3	2.29E-01	-0.006306239
WBGene00013805	0.245647083	8	9.52E-02	0.24923431
WBGene00013807	0.105199591	11	3.28E-01	-0.099722592
WBGene00013808	0.127068744	27	1.43E-01	0.075873313
WBGene00000889	0.010540005	16	1.42E+00	0.375074125

WBGene00013809	0.067048665	12	5.25E-01	0.605583613
WBGene00006698	0.010020252	7	7.71E-01	-0.007669589
WBGene00006405	0.607399408	18	3.31E-05	0.622304164
WBGene00013810	-0.032124473	6	9.83E-01	1
WBGene00013811	-0.126513408	15	1.10E+01	0.194762166
WBGene00013812	-0.252039006	18	1.88E+02	-0.188037866
WBGene00004819	-0.020291178	5	8.19E-01	-0.305880619
WBGene00004815	-0.612364456	4	2.05E+01	-0.487861223
WBGene00004814	0.005240223	4	6.45E-01	0.050414242
WBGene00004818	-0.169063392	6	2.70E+00	-0.240557033
WBGene00016877	-0.116786728	37	5.14E+02	-0.128560623
WBGene00000711	-0.098245769	5	1.36E+00	-0.211901153
WBGene00001460	-0.211258527	5	2.83E+00	0.129224611
WBGene00016879	-0.13309803	15	1.21E+01	0.148229723
WBGene00013779	0.041117015	4	5.28E-01	0.156405564
WBGene00013781	-0.152322327	3	1.26E+00	-0.195988559
WBGene00013782	-0.035443417	10	1.56E+00	-0.031151668
WBGene00013996	0	4	6.64E-01	0.000180634
WBGene00013997	0.336236479	17	5.59E-03	0.338915951
WBGene00013998	0.217430923	8	1.23E-01	0.158769253
WBGene00013999	-0.150184796	17	2.41E+01	-0.585604284
WBGene00014000	-0.101558368	10	3.22E+00	-0.0746619
WBGene00044244	-0.404298112	4	6.39E+00	-0.574105419
WBGene00006229	-0.578512797	6	5.56E+01	-0.184896843
WBGene00000224	0.534449239	20	5.57E-05	0.096543163
WBGene00001606	0.188414097	11	1.23E-01	-0.259913335
WBGene00009155	-0.045979223	5	9.67E-01	-0.412434597
WBGene00009156	0.223631178	1	2.74E-01	0.336506035
WBGene00002005	1	21	5.43E-13	-0.020371894
WBGene00012128	0.467996645	18	4.12E-04	0.020734208
WBGene00044067	-0.364854248	16	6.47E+02	-0.670537314
WBGene00012130	0.204286472	13	8.23E-02	0.07844222
WBGene00303083	-0.040867012	1	5.93E-01	-0.029631667
WBGene00012131	0.306456821	25	1.94E-03	0.263194061
WBGene00012132	0.10357291	5	3.66E-01	0.041168178
WBGene00012134	-0.201043367	9	7.40E+00	-0.366392366
WBGene00012135	-0.173562828	12	1.13E+01	-0.15148357
WBGene00004908	-0.039885042	13	2.30E+00	-0.029340858
WBGene00185097	-0.600506684	2	5.62E+00	-0.225765006
WBGene00008194	-0.062593069	28	2.32E+01	-0.107797337
WBGene00008195	-0.548733491	7	7.88E+01	0.137569314
WBGene00008196	-0.193151632	3	1.53E+00	0.68918585
WBGene00008197	-0.030464187	9	1.33E+00	0.140783019
WBGene00008204	-0.226880725	1	1.02E+00	0.212519631
WBGene00008198	-0.021000446	6	9.06E-01	0.427749652
WBGene00008200	0.23755125	10	7.83E-02	0.65712577
WBGene00008199	-0.134698543	4	1.41E+00	0.022750857

WBGene00189993	-0.082279141	2	7.79E-01	0.006000152
WBGene00008201	-0.004635307	3	6.28E-01	0
WBGene00008202	-0.160297628	2	1.05E+00	-0.047123864
WBGene00008203	0	3	6.15E-01	0
WBGene00007820	-0.296018711	10	2.71E+01	-0.279826322
WBGene00007822	-0.172679471	5	2.20E+00	-0.077509919
WBGene00006487	-0.710548237	6	1.48E+02	-0.102071862
WBGene00007827	-0.001891413	9	9.97E-01	-0.093452572
WBGene00007823	-0.088881973	14	5.24E+00	0.08987286
WBGene00001811	0.1719978	9	1.73E-01	0.024226656
WBGene00007826	0.183765561	4	2.37E-01	0.098043905
WBGene00007824	0.190849788	6	1.89E-01	0.432128265
WBGene00007825	0.689497359	5	8.16E-03	0.410271009
WBGene00044238	0.329344552	12	1.86E-02	0.237197
WBGene00011374	0.028002791	4	5.68E-01	0.296465433
WBGene00005678	-0.160488951	4	1.63E+00	-0.005719153
WBGene00011371	0.099969464	16	3.30E-01	-0.500453337
WBGene00004061	-0.118451787	12	5.59E+00	-0.400448506
WBGene00011373	-0.045588329	2	6.77E-01	-0.027250588
WBGene00138714	-0.003205238	1	5.31E-01	0.18552982
WBGene00011372	0.023896337	18	1.28E+00	-0.08860498
WBGene00007357	-0.197841535	2	1.21E+00	0.094818234
WBGene00007358	-0.333791946	9	2.82E+01	-0.096555307
WBGene00001550	-0.183291642	10	7.88E+00	0.007901398
WBGene00007359	-0.022353534	3	6.83E-01	-0.012368992
WBGene00255702	-0.050687678	1	6.10E-01	-0.160503996
WBGene00045013	-0.102030249	7	1.95E+00	-0.007855903
WBGene00023501	-0.031328234	4	7.92E-01	-0.189265249
WBGene00008711	-0.790509224	19	7.03E+06	-0.378029185
WBGene00008710	-0.198998774	9	7.25E+00	-0.209103886
WBGene00008713	-0.179693544	4	1.82E+00	-0.303438031
WBGene00008709	0.058762587	7	5.15E-01	-0.172934088
WBGene00001240	0.226609554	5	1.65E-01	0.721371387
WBGene00008708	0.101781547	4	3.76E-01	0.40712186
WBGene00008707	0.03705415	6	5.90E-01	0.370211449
WBGene00008706	-0.088383404	16	7.12E+00	0.073836054
WBGene00008712	-0.385814631	5	8.79E+00	-0.200542847
WBGene00001733	-0.303036408	3	2.56E+00	0.570478227
WBGene00007067	-0.200828696	8	5.71E+00	0.040772841
WBGene00003525	-0.511093697	20	5.95E+04	-0.210760767
WBGene00015153	-0.088919295	13	4.49E+00	0.096580224
WBGene00002061	0.218376662	7	1.37E-01	0.152020082
WBGene00255704	0.083205376	1	4.13E-01	0.142163139
WBGene00001177	0.300946336	55	7.19E-06	0.414093736
WBGene00015152	0	1	5.26E-01	0
WBGene00015151	-0.1271389	6	1.98E+00	0.133743541
WBGene00021413	0.359498281	15	6.09E-03	0.790148074

WBGene00021412	-0.071994378	9	2.02E+00	0.110053302
WBGene00021414	0.003859798	4	6.50E-01	-0.081731094
WBGene00018976	-0.08450964	43	4.15E+02	-0.11322566
WBGene00004496	1	2	9.24E-03	0.57145251
WBGene00018975	0.098170374	35	2.80E-01	0.144669667
WBGene00000480	0.22708295	16	4.14E-02	0.377584694
WBGene00020999	-0.007958934	12	1.37E+00	-0.387071121
WBGene00021000	-0.030071843	3	7.08E-01	-0.151942838
WBGene00021004	-0.096409554	16	8.11E+00	-0.403092519
WBGene00044512	-0.087844238	21	1.54E+01	-0.282342191
WBGene00021003	-0.337891889	11	6.26E+01	-0.688834707
WBGene00005303	0	2	5.69E-01	0.004650724
WBGene00021002	-0.083645423	10	2.64E+00	0.019683564
WBGene00006648	-0.042499274	27	1.20E+01	0.073093694
WBGene00022435	-0.096390899	25	3.54E+01	0.126228234
WBGene00022434	0.001101496	19	2.08E+00	0.053849895
WBGene00000838	-0.005798763	21	2.80E+00	0.023450474
WBGene00044689	0.086305582	51	4.19E-01	-0.0050438
WBGene00077643	-0.183302082	9	6.19E+00	-0.052898158
WBGene00017080	-0.083674436	14	4.86E+00	0.035958399
WBGene00017082	-0.074307884	13	3.68E+00	0.253363218
WBGene00005299	-0.038554096	4	8.24E-01	-0.011143156
WBGene00005301	-0.045872958	7	1.23E+00	-0.131632676
WBGene00017083	-0.205908202	17	6.29E+01	-0.245158502
WBGene00019814	-1	11	4.12E+05	-1
WBGene00019817	-0.269606846	6	5.68E+00	0.175694259
WBGene00019818	0	1	5.26E-01	0
WBGene00019815	-0.025462095	6	9.36E-01	-0.027929716
WBGene00006419	-0.332543121	17	5.56E+02	-0.092380978
WBGene00006172	-0.101470739	5	1.39E+00	-0.191759263
WBGene00019816	-0.269913564	8	1.08E+01	-0.277606905
WBGene00021981	-0.195106046	11	1.15E+01	-0.296404036
WBGene00044513	-0.086429628	6	1.47E+00	-0.341580113
WBGene00021983	0.228907987	10	8.61E-02	0.085486925
WBGene00018010	-0.040341371	9	1.47E+00	0.260921709
WBGene00018011	-0.053907279	14	3.16E+00	0.032535663
WBGene00018013	-0.009516041	13	1.52E+00	0.022397906
WBGene00003614	0.112478625	12	2.95E-01	-0.112462203
WBGene00000022	-0.819913232	32	4.57E+11	-0.661727037
WBGene00020708	0.088287973	4	4.05E-01	0.247120201
WBGene00020707	-0.791224409	24	3.59E+08	-0.628780631
WBGene00020706	-0.064268028	20	8.24E+00	0.033801758
WBGene00020705	-0.015695957	12	1.51E+00	0.093063868
WBGene00021450	-0.668013714	22	5.19E+06	-0.707302799
WBGene00021449	-0.389870695	22	1.25E+04	-0.575617593
WBGene00021451	-0.542116083	17	2.05E+04	-0.279466805
WBGene00022643	-0.528974413	19	4.90E+04	-0.076370989

WBGene00022642	-0.138339734	8	3.22E+00	-0.124117434
WBGene00022641	-0.194441972	9	6.93E+00	0.02151708
WBGene00022640	-0.099387523	6	1.62E+00	-0.075690497
WBGene00022639	-1	6	4.36E+03	-0.490592278
WBGene00022638	-0.000200382	7	8.39E-01	-0.377195509
WBGene00005284	-0.025036991	4	7.64E-01	-0.011827798
WBGene00022637	-0.842881615	12	5.70E+04	-1
WBGene00022644	0	4	6.64E-01	0
WBGene00022645	0.000778126	4	6.61E-01	-0.000638123
WBGene00021448	-0.495219485	12	6.79E+02	-1
WBGene00015259	-0.21419855	4	2.20E+00	-0.383300534
WBGene00015258	-0.333178454	9	2.80E+01	-0.3350267
WBGene00015257	-0.060861492	12	2.68E+00	-0.03333937
WBGene00015255	-0.534271018	8	1.22E+02	-0.893138415
WBGene00015260	-0.006023682	8	9.57E-01	-0.098968228
WBGene00015254	0	1	5.26E-01	-0.227510633
WBGene00005256	-0.909868158	8	3.81E+03	-0.270505239
WBGene00005257	-0.157781492	5	2.00E+00	-0.112511479
WBGene00005258	-0.820025495	7	7.44E+02	-0.310683792
WBGene00019744	-0.187388005	4	1.90E+00	-0.16082652
WBGene00003713	-0.203502215	5	2.69E+00	-0.175783684
WBGene00003688	-0.317167872	10	3.42E+01	-0.126591954
WBGene00019743	-0.165919173	18	3.96E+01	-0.233033062
WBGene00019742	-0.016160996	3	6.63E-01	0.080071195
WBGene00019741	0	2	5.69E-01	0.004179165
WBGene00019745	0	3	6.15E-01	0.378251522
WBGene00019740	-0.076137639	5	1.18E+00	0.016139675
WBGene00003689	-0.021792855	8	1.11E+00	-0.057721166
WBGene00003645	0	12	1.23E+00	-0.004001445
WBGene00003720	-0.197177807	6	3.33E+00	0.007482622
WBGene00020153	-0.421536453	9	6.81E+01	0.12528728
WBGene00020152	-0.080102645	3	8.96E-01	-0.250246532
WBGene00003696	-0.543877048	8	1.33E+02	-0.463772138
WBGene00006233	-0.108776224	7	2.06E+00	-0.097470066
WBGene00003721	-0.066143152	6	1.26E+00	-0.119071947
WBGene00020151	-0.506960007	7	5.57E+01	-0.759457011
WBGene00006282	-1	6	1.18E+04	-0.865862426
WBGene00020154	-0.42208812	9	6.85E+01	-0.39783426
WBGene00004144	-0.02296499	1	5.63E-01	-0.00904637
WBGene00020014	-0.424147903	3	4.53E+00	-0.311168342
WBGene00005260	0	4	6.64E-01	-0.276719368
WBGene00020015	-0.200577558	7	4.41E+00	-0.38207409
WBGene00005854	-0.055320327	4	9.05E-01	-0.020303303
WBGene00020016	-0.666178841	9	7.99E+02	-0.367735387
WBGene00255729	-0.625828674	2	6.19E+00	-0.18381432
WBGene00005855	0.215341763	5	1.77E-01	-0.672962736
WBGene00003648	-0.312036686	9	2.26E+01	-1

WBGene00003722	-0.039105245	5	9.25E-01	-0.084272023
WBGene00015759	-0.494110134	5	1.78E+01	-0.303212154
WBGene00015758	0	6	7.76E-01	-0.109534562
WBGene00015757	-0.88029387	8	2.91E+03	-0.649611938
WBGene00015760	-0.545561674	8	1.35E+02	-0.803953312
WBGene00015762	-0.712401851	10	2.60E+03	-0.921842065
WBGene00005899	-0.236552024	6	4.45E+00	-0.140240975
WBGene00005898	0.011654126	12	1.06E+00	-0.084920204
WBGene00015756	-0.424854764	7	2.82E+01	-0.249388789
WBGene00005585	-0.138800588	3	1.18E+00	-0.111464068
WBGene00005584	0	5	7.18E-01	0.028584218
WBGene00015764	-0.253327379	8	9.25E+00	-0.344349809
WBGene00019453	-0.07161711	7	1.52E+00	-0.378682465
WBGene00019452	-0.425126715	10	1.11E+02	-0.31659246
WBGene00019451	-0.289861336	8	1.29E+01	-0.525104457
WBGene00019450	-0.197695638	4	2.01E+00	-0.307154113
WBGene00019449	-0.567005014	8	1.64E+02	-0.609910054
WBGene00022758	-0.139513852	7	2.66E+00	-0.118283437
WBGene00022757	-0.138692368	7	2.64E+00	-0.122944769
WBGene00022756	-0.66018547	8	3.86E+02	-0.275672666
WBGene00004177	-0.074936308	4	1.01E+00	-0.467197667
WBGene00005856	-0.003754761	3	6.26E-01	0.004534504
WBGene00004176	0	3	6.15E-01	-0.046483848
WBGene00003680	-0.515258984	8	1.02E+02	-0.094559425
WBGene00018624	0.007100552	1	5.16E-01	0.01104482
WBGene00018615	0.169921757	6	2.21E-01	-0.06234838
WBGene00018616	-0.262557971	3	2.12E+00	-0.590557267
WBGene00018617	0.011167096	6	7.14E-01	-0.410882718
WBGene00018618	-0.146203771	5	1.85E+00	-0.08391994
WBGene00018619	-0.657660007	4	2.64E+01	-0.935172824
WBGene00018620	-0.116908449	2	8.89E-01	-0.264705739
WBGene00018621	-0.268055458	7	7.71E+00	-0.300868372
WBGene00018614	-0.124016414	5	1.61E+00	-0.529776645
WBGene00005621	-0.306736576	4	3.70E+00	-0.04430406
WBGene00018622	-0.042639115	6	1.06E+00	0.112643686
WBGene00018623	0.045677738	5	5.33E-01	0
WBGene00017959	-0.321340597	9	2.48E+01	-0.107644737
WBGene00005593	-0.282626497	4	3.23E+00	-0.306010217
WBGene00005594	-0.790686311	5	1.22E+02	-0.411182537
WBGene00005451	-0.368988978	5	7.88E+00	-0.250605159
WBGene00005452	0	5	7.18E-01	-0.054042445
WBGene00017963	-0.038131876	6	1.03E+00	-0.02197065
WBGene00017960	-0.025129515	3	6.92E-01	-0.053359576
WBGene00005472	-0.244207594	2	1.44E+00	-0.14225998
WBGene00017961	-0.377473629	8	2.89E+01	-0.399819583
WBGene00005687	-0.601056431	14	8.94E+03	-0.54895984
WBGene00005688	-0.059946106	5	1.06E+00	-0.023322547

WBGene00017962	-0.019005834	9	1.18E+00	-0.240108532
WBGene00005912	-0.637493932	8	3.13E+02	-0.322263163
WBGene00005913	-0.805460285	5	1.34E+02	-0.324930134
WBGene00005914	-0.014498447	3	6.58E-01	0.037765465
WBGene00017957	0.001208639	3	6.11E-01	0
WBGene00019244	0.019005694	10	8.59E-01	-0.107528539
WBGene00005895	-0.147920913	7	2.85E+00	-0.261350269
WBGene00005632	-0.632884786	4	2.30E+01	-0.634631946
WBGene00005631	-0.34115544	4	4.49E+00	-0.276889811
WBGene00021709	-0.56690724	13	3.04E+03	-0.268554743
WBGene00005896	-0.20751071	3	1.63E+00	-0.173346293
WBGene00021708	-0.199202954	2	1.22E+00	-0.171148648
WBGene00021707	0	1	5.26E-01	0
WBGene00021706	-0.033295584	3	7.19E-01	-0.069129968
WBGene00021710	-0.042489392	6	1.06E+00	-0.1045367
WBGene00019242	-0.208587162	12	1.76E+01	0.019530428
WBGene00019243	-0.442841714	7	3.28E+01	-0.266687195
WBGene00001564	0.062934057	25	7.31E-01	-0.6215024
WBGene00005228	0.119649099	12	2.69E-01	0.083974945
WBGene00005613	-0.000661878	4	6.67E-01	-0.049132726
WBGene00005612	0	5	7.18E-01	-0.001530032
WBGene00015489	-0.399416419	7	2.29E+01	-0.050406688
WBGene00006182	0.021212581	3	5.56E-01	-0.022277833
WBGene00005516	0	2	5.69E-01	-0.001589638
WBGene00006288	0.005468251	8	8.61E-01	-0.693314362
WBGene00005642	-0.825048174	8	1.75E+03	-0.804354365
WBGene00006087	-0.173412856	3	1.39E+00	-0.016153811
WBGene00206359	-0.00557287	2	5.81E-01	-0.002410105
WBGene00015491	-0.035667484	1	5.84E-01	-0.031542981
WBGene00005643	-0.635123474	11	2.12E+03	-1
WBGene00006266	-0.044495302	31	2.02E+01	-0.008338438
WBGene00019983	0.325378788	8	4.58E-02	-0.075701694
WBGene00019982	-0.267691387	6	5.60E+00	-0.040538023
WBGene00044514	-0.361856569	2	2.26E+00	-0.215424015
WBGene00019981	-0.117880045	2	8.92E-01	-0.023155225
WBGene00044091	-0.41724662	5	1.08E+01	-0.592252569
WBGene00020060	-0.202263032	5	2.67E+00	-0.182801961
WBGene00020062	0.171926479	12	1.38E-01	-0.088422663
WBGene00020058	-0.194360418	14	2.43E+01	0.269931375
WBGene00020063	-0.402970923	2	2.65E+00	0.035030748
WBGene00020057	-0.13470813	6	2.10E+00	-0.216763921
WBGene00020056	-0.351074102	7	1.53E+01	-0.596327996
WBGene00005923	0.046819479	4	5.11E-01	-0.206750478
WBGene00005922	0	4	6.64E-01	0
WBGene00018313	-0.102766135	8	2.32E+00	-0.097891068
WBGene00018312	-0.382313739	4	5.65E+00	-0.06335111
WBGene00019561	-0.447822433	8	5.50E+01	-0.42597753

WBGene00044778	0.064380418	3	4.54E-01	-0.372675687
WBGene00019562	-0.087808256	9	2.37E+00	-0.29654921
WBGene00019559	-0.015434192	3	6.61E-01	-0.139877181
WBGene00019558	-0.17256439	6	2.77E+00	-0.140196848
WBGene00019557	0.022214847	2	5.23E-01	0.057381157
WBGene00019563	0.003019638	9	9.49E-01	-0.457490935
WBGene00019556	-0.483836496	18	1.25E+04	0.146056918
WBGene00020155	-0.16790502	4	1.70E+00	0.01558547
WBGene00020156	-0.000133306	4	6.65E-01	-0.000434894
WBGene00044777	-0.438563075	6	1.98E+01	-0.347192361
WBGene00044776	-0.008177318	2	5.87E-01	-0.008080733
WBGene00005210	0.049027016	5	5.22E-01	-0.161731463
WBGene00005622	0.016483563	4	6.06E-01	-0.037194753
WBGene00020157	-0.005835641	9	1.04E+00	-0.00245304
WBGene00255731	-0.141280894	5	1.80E+00	-0.379906892
WBGene00255732	-0.037754849	4	8.21E-01	-0.071966323
WBGene00255733	-0.631758844	5	4.34E+01	-0.075007354
WBGene00235327	-0.16423306	4	1.67E+00	-0.029056091
WBGene00003550	-0.219037011	23	4.06E+02	-0.308912139
WBGene00001480	-0.350259618	21	3.59E+03	-0.081863058
WBGene00019241	-0.109678024	20	2.03E+01	0.02650633
WBGene00019240	-0.001585066	11	1.16E+00	-0.00415814
WBGene00019239	-0.197162797	14	2.53E+01	-0.164444181
WBGene00021748	-0.057975562	14	3.35E+00	0.013320518
WBGene00021750	0.013459608	4	6.16E-01	-0.003909553
WBGene00005024	-0.002478931	14	1.49E+00	-0.003959667
WBGene00006770	0.240274402	31	4.28E-03	0.138213283
WBGene00303091	0.010637766	1	5.10E-01	0
WBGene00021749	-0.045542937	14	2.79E+00	0.009497251
WBGene00019971	0.012867662	41	7.11E+00	-0.026745516
WBGene00019972	-0.006962367	8	9.65E-01	0.002845415
WBGene00019973	-0.312101805	9	2.26E+01	-0.174905071
WBGene00019975	-0.169162409	14	1.68E+01	-0.271174768
WBGene00015344	0.106814601	25	2.51E-01	0.266149117
WBGene00019625	-0.256008708	5	3.78E+00	-0.264017829
WBGene00019624	0.036701347	11	7.40E-01	0.098984117
WBGene00006129	0.134794495	5	2.99E-01	0.133243119
WBGene00019626	-0.055122515	5	1.03E+00	0.021963125
WBGene00019623	-0.150700961	7	2.92E+00	-0.094066224
WBGene00021745	-0.569519546	9	3.02E+02	-0.768581961
WBGene00021744	-0.071894213	4	9.93E-01	-0.062452182
WBGene00021743	-0.047186366	17	4.10E+00	-0.075456401
WBGene00021741	-0.055922898	6	1.17E+00	-0.05719326
WBGene00021740	-0.051345877	28	1.71E+01	-0.00551656
WBGene00021072	-0.253694719	7	6.85E+00	-0.523672687
WBGene00000785	-0.668658194	12	6.19E+03	-0.562221392
WBGene00021070	-0.591883758	20	2.97E+05	-0.493802645

WBGene00020663	-0.243665112	17	1.20E+02	-0.372920452
WBGene00000552	0.637304985	6	7.00E-03	0.192590211
WBGene00020664	-0.26581792	14	6.86E+01	-0.122356694
WBGene00004230	-0.230648772	24	7.00E+02	-0.309438218
WBGene00020662	-0.427809931	14	7.21E+02	-0.399081201
WBGene00017764	-0.32703516	15	2.41E+02	-0.285927388
WBGene00021738	-0.014439364	10	1.24E+00	0.024586824
WBGene00021736	-0.200672387	49	2.12E+05	-0.171124657
WBGene00195169	-0.080268218	8	1.89E+00	0.031262067
WBGene00021739	0.093523887	5	3.91E-01	-0.5559684
WBGene00021735	-0.061665986	25	1.52E+01	-0.112903075
WBGene00235315	-0.543160727	3	7.93E+00	-0.078613374
WBGene00016539	0.434196498	29	2.51E-05	0.281873915
WBGene00016538	0.076528628	7	4.45E-01	-0.078837486
WBGene00004266	0.017161235	2	5.33E-01	-0.001743331
WBGene00016540	-0.042462568	21	5.99E+00	0.022716267
WBGene00022288	-0.380486083	6	1.29E+01	-0.320845565
WBGene00022289	-0.269165017	9	1.47E+01	-0.314963816
WBGene00004053	-0.064547107	42	1.62E+02	-0.259482862
WBGene00001171	0.288973504	25	2.98E-03	0.132456671
WBGene00017502	0.366827296	3	1.09E-01	-0.264235366
WBGene00044774	0.455322469	7	1.93E-02	0.174969725
WBGene00022285	0.24476213	66	2.69E-05	0.183652815
WBGene00022284	0.967359592	22	2.11E-09	0.752126033
WBGene00004923	0.052530383	17	7.37E-01	0.198948785
WBGene00022286	-0.049326287	35	3.79E+01	-0.109684713
WBGene00022287	-0.071432425	2	7.47E-01	0.529099781
WBGene00004925	0.177921133	55	3.87E-03	0.3114698
WBGene00020017	-0.389518281	8	3.22E+01	-0.501276326
WBGene00001578	-0.315887735	12	6.91E+01	-0.215674802
WBGene00019979	-0.53334456	9	2.10E+02	-0.353816374
WBGene00044900	0	1	5.26E-01	-0.090076409
WBGene00000555	-0.115614639	1	7.38E-01	0
WBGene00000559	-0.129513793	2	9.32E-01	0
WBGene00000558	-0.004268188	2	5.78E-01	-0.028792127
WBGene00000557	0	2	5.69E-01	-0.36887399
WBGene00000556	-0.205625031	2	1.25E+00	-0.262869356
WBGene00005611	0	7	8.38E-01	-0.01693986
WBGene00019980	-0.22732467	5	3.14E+00	-0.044389148
WBGene00019978	-0.006886924	3	6.35E-01	-0.07564905
WBGene00019977	-0.937409181	12	1.90E+05	-0.782000823
WBGene00004139	-0.434868144	5	1.21E+01	-0.714804763
WBGene00018757	-0.135569506	7	2.57E+00	0.118705529
WBGene00302980	0.273534828	10	5.28E-02	0.384093077
WBGene00006794	0.154301011	15	1.44E-01	0.167559655
WBGene00016513	-0.197736583	8	5.55E+00	0.067885708
WBGene00016514	-0.04034395	10	1.65E+00	-0.019053856

WBGene00045390	-0.063989033	3	8.31E-01	0.289791547
WBGene00016512	-0.052167775	3	7.86E-01	0.01316607
WBGene00005690	-0.130576379	4	1.38E+00	0.100582694
WBGene00005691	-0.018247266	4	7.36E-01	-0.164453949
WBGene00016517	-0.900361322	11	4.91E+04	-1
WBGene00006268	-0.326427967	7	1.25E+01	-0.526742147
WBGene00006270	-0.356031152	6	1.08E+01	-0.577137384
WBGene00006265	-0.210783472	5	2.82E+00	-0.134632482
WBGene00019348	-0.769743957	10	4.87E+03	-0.761421515
WBGene00019349	0	4	6.64E-01	0
WBGene00019350	-0.060891525	7	1.39E+00	-0.130583677
WBGene00018707	-0.319474314	10	3.50E+01	-0.254498048
WBGene00018708	-0.082384934	10	2.61E+00	-0.156337902
WBGene00018706	-0.572686674	9	3.12E+02	-0.396718792
WBGene00018709	0.00046552	5	7.16E-01	0
WBGene00000387	0.039666259	27	1.40E+00	-0.032936264
WBGene00017509	-0.01158103	2	5.95E-01	-0.414817375
WBGene00017508	0.007544334	2	5.53E-01	-0.238852968
WBGene00017507	-0.058106834	20	7.29E+00	-0.567375091
WBGene00017506	-0.277576662	4	3.14E+00	-0.305280063
WBGene00017504	-0.05157061	4	8.87E-01	-0.048248489
WBGene00017510	-0.305706298	10	3.01E+01	-0.018834262
WBGene00017503	-0.009246675	4	6.99E-01	-0.012052569
WBGene00017511	-0.669626493	7	2.14E+02	-0.419066545
WBGene00017512	-0.226556791	5	3.13E+00	-0.233547362
WBGene00003707	-0.140694336	11	6.05E+00	-0.37778193
WBGene00003700	-0.203417176	6	3.48E+00	0.034177809
WBGene00021610	-0.322616621	6	8.40E+00	-0.12114858
WBGene00021611	-0.450400877	8	5.64E+01	-0.84672481
WBGene00021612	-0.02664904	1	5.69E-01	-0.058384488
WBGene00021609	-0.141844795	12	7.53E+00	-0.196652909
WBGene00006253	-0.047272572	6	1.10E+00	-0.022419599
WBGene00006252	-0.443276321	5	1.28E+01	-0.70634342
WBGene00021608	-0.287315341	4	3.32E+00	0.079648606
WBGene00000108	0.00496228	10	1.00E+00	-0.016700951
WBGene00019393	-0.146582083	11	6.49E+00	-0.173106506
WBGene00019392	-0.025315833	6	9.35E-01	-0.092818265
WBGene00019391	-0.003741048	6	7.97E-01	-0.002448188
WBGene00019389	-0.369564829	3	3.50E+00	-0.088635849
WBGene00019388	-0.041315556	3	7.47E-01	-0.00825578
WBGene00019387	0.114046757	6	3.34E-01	-0.120292508
WBGene00019386	-0.001554675	3	6.19E-01	-0.001019003
WBGene00005845	-0.047974484	6	1.11E+00	0
WBGene00005838	-0.002863192	1	5.31E-01	0
WBGene00005229	-0.025688043	5	8.48E-01	0
WBGene00005231	-0.275827109	4	3.11E+00	-0.224400225
WBGene00021605	-1	27	8.24E+15	-2

WBGene00021607	-0.705354661	22	1.16E+07	-1
WBGene00005837	-0.034587485	9	1.39E+00	-0.063322828
WBGene00005846	-0.079416756	5	1.20E+00	-0.042434275
WBGene00005847	-0.005773944	3	6.32E-01	-0.002517915
WBGene00005850	-0.278783785	11	3.11E+01	-0.386274807
WBGene00005849	-0.256797662	10	1.76E+01	-0.177700126
WBGene00005848	-0.042496293	8	1.34E+00	-0.132024642
WBGene00005539	0	4	6.64E-01	-3.47E-05
WBGene00001769	-0.417490941	7	2.66E+01	-0.352757732
WBGene00006205	-0.003795965	2	5.77E-01	0
WBGene00022807	-0.009061733	6	8.29E-01	-0.169393406
WBGene00022805	-0.294478273	15	1.46E+02	-0.231775065
WBGene00022808	-0.840043827	4	7.34E+01	-0.640836729
WBGene00005410	-0.295061219	5	4.88E+00	0.253214288
WBGene00022804	-0.051407104	3	7.83E-01	-0.165971743
WBGene00022809	-0.13045486	4	1.38E+00	-0.032096192
WBGene00021603	-0.238867248	11	1.94E+01	-0.212284765
WBGene00021602	-0.09515693	13	4.88E+00	-0.159275279
WBGene00000976	-0.225445854	23	4.69E+02	-0.200268642
WBGene00018115	0.734979002	5	6.07E-03	0.655492858
WBGene00018112	-0.124591942	3	1.11E+00	-0.040107802
WBGene00018113	-0.171676356	2	1.10E+00	-0.024139975
WBGene00018111	-0.103762025	18	1.29E+01	-0.157645525
WBGene00018110	-0.224032262	9	9.33E+00	-0.169165546
WBGene00268194	0.018435638	5	6.37E-01	-0.043713018
WBGene00018114	-0.010321978	7	9.13E-01	0.028682681
WBGene00002016	0.217782698	5	1.74E-01	-0.132063356
WBGene00002018	0.179479898	5	2.24E-01	-0.39582002
WBGene00021599	-0.169656596	11	8.53E+00	-0.352786501
WBGene00021600	0.031637598	5	5.84E-01	0.027306273
WBGene00021601	-0.192322476	9	6.78E+00	-0.236351416
WBGene00001632	0.006127345	13	1.23E+00	0.073490221
WBGene00044344	0.480445724	9	7.77E-03	0.460626881
WBGene00021309	-0.001688398	14	1.48E+00	0.103043619
WBGene00020394	-0.181058835	8	4.77E+00	-0.090474836
WBGene00020393	-0.232684795	6	4.33E+00	0.041329234
WBGene00020396	-0.01636575	9	1.15E+00	0.116580703
WBGene00020389	-0.17478754	10	7.18E+00	0.154739003
WBGene00020392	0.612040332	5	1.35E-02	0.527451521
WBGene00020390	0.117217218	4	3.44E-01	0.743193548
WBGene00020391	0.567579085	16	1.60E-04	0.868315195
WBGene00021305	0.07698861	14	4.71E-01	0.012196126
WBGene00021304	-0.279569046	32	3.02E+04	-0.219203914
WBGene00021303	-0.558205054	18	4.80E+04	-1
WBGene00005644	-0.670820165	10	1.65E+03	-2
WBGene00021302	-0.577235946	5	3.05E+01	-0.725610011
WBGene00021301	-0.559837938	8	1.54E+02	-0.08861448

WBGene00044516	-0.770141303	6	2.29E+02	-0.293033093
WBGene00001785	-0.300521296	4	3.58E+00	-0.081409904
WBGene00020277	-0.092846421	7	1.81E+00	-0.054535528
WBGene00020280	0	11	1.14E+00	-0.070462685
WBGene00020279	0.139925123	16	1.72E-01	0.261037483
WBGene00044518	-0.050323835	2	6.89E-01	0
WBGene00021494	-0.264313843	10	1.91E+01	-0.476411591
WBGene00005603	-0.106748968	6	1.71E+00	-0.048411987
WBGene00020343	-0.239705288	13	3.51E+01	-0.232042608
WBGene00020342	-0.250476997	8	9.01E+00	-0.784763764
WBGene00020341	-0.177541056	10	7.40E+00	-0.227711329
WBGene00020340	-0.108193124	17	1.17E+01	-0.245410901
WBGene00006589	-0.533938527	14	3.37E+03	-0.687158394
WBGene00000111	-0.206020059	15	3.74E+01	-0.437300994
WBGene00019089	-0.245272874	8	8.59E+00	0.010805
WBGene00019096	-0.200310472	6	3.41E+00	-0.531234987
WBGene00019094	-0.007520843	2	5.85E-01	-0.126391809
WBGene00044519	-0.130457178	2	9.36E-01	-0.332928195
WBGene00019090	0.139992445	2	3.33E-01	0
WBGene00268196	0.193671572	9	1.39E-01	0.327509407
WBGene00019092	0.135398584	5	2.98E-01	0.230748495
WBGene00019091	0.123672	6	3.11E-01	0.168012789
WBGene00044520	-0.104137728	3	1.00E+00	-0.166713778
WBGene00001857	-0.145906875	6	2.28E+00	-0.69437088
WBGene00021488	-0.210359755	4	2.16E+00	-0.0933742
WBGene00021490	-0.012005813	10	1.21E+00	-0.054967138
WBGene00021491	-2	7	1.32E+06	-1
WBGene00268197	-0.82902075	5	1.56E+02	-0.536307757
WBGene00021492	-0.775478294	11	1.12E+04	-1
WBGene00021487	-0.078296006	12	3.35E+00	0.040364693
WBGene00003676	0.082781207	15	4.35E-01	0.030001605
WBGene00021486	0.138419213	3	3.20E-01	0.235973436
WBGene00021493	-0.114220569	19	1.86E+01	-0.523872701
WBGene00018094	-0.342412629	6	9.73E+00	-0.04552164
WBGene00018099	-1	10	1.02E+06	-1
WBGene00018093	-0.167113984	7	3.34E+00	-0.192635115
WBGene00018096	-0.465373292	5	1.47E+01	-0.491899807
WBGene00018097	-0.913972246	6	6.63E+02	-0.690338345
WBGene00018098	-0.349294951	3	3.18E+00	-0.690524847
WBGene00018092	-0.221928388	9	9.13E+00	-0.09031193
WBGene00017722	-0.322126905	7	1.21E+01	-0.095022988
WBGene00000514	-0.384329551	10	7.13E+01	-0.170842223
WBGene00017721	-0.124295776	15	1.06E+01	-0.248701164
WBGene00017723	-0.033035227	7	1.10E+00	0.04389752
WBGene00235326	-0.778669275	2	1.11E+01	-0.636166066
WBGene00194908	-0.504444682	2	3.90E+00	-0.134052355
WBGene00017720	0.080369892	7	4.31E-01	0.001159709

WBGene00017719	-0.275904912	10	2.17E+01	-0.162912686
WBGene00017724	-0.062469328	21	9.08E+00	0.102141477
WBGene00268198	0.005460904	1	5.18E-01	-0.135793572
WBGene00006117	-0.078002011	3	8.87E-01	0.104107153
WBGene00016693	-0.278369409	4	3.16E+00	-0.733084101
WBGene00268199	-0.063622038	2	7.25E-01	-0.037695375
WBGene00016694	-0.184990569	5	2.39E+00	-0.365288627
WBGene00016692	-0.003442335	2	5.76E-01	-0.031343861
WBGene00016691	0	2	5.69E-01	0
WBGene00016689	-0.010901749	1	5.43E-01	-0.024809873
WBGene00016690	-0.316356841	2	1.90E+00	-0.18028001
WBGene00016695	-0.290091842	5	4.72E+00	-0.170629745
WBGene00006281	-0.032616983	8	1.22E+00	0.031083199
WBGene00016696	-0.224912293	5	3.09E+00	-0.172348553
WBGene00044087	-0.109152035	4	1.22E+00	-0.257520264
WBGene00016687	0.033797958	8	6.64E-01	-0.300193449
WBGene00016686	-0.087950904	11	3.24E+00	-0.067189366
WBGene00016685	0	1	5.26E-01	-0.015045923
WBGene00016697	0	11	1.14E+00	-0.057582033
WBGene00021165	-0.538574619	6	4.14E+01	-0.634807835
WBGene00021166	-0.269958912	6	5.70E+00	-0.177953014
WBGene00003612	-0.042526779	13	2.38E+00	0.114269615
WBGene00021167	-0.015504176	6	8.70E-01	-0.002464423
WBGene00021168	-0.212334844	15	4.12E+01	-0.109846489
WBGene00021169	-0.035853738	6	1.01E+00	-0.001590472
WBGene00021164	-0.199933229	10	9.45E+00	-0.242410373
WBGene00003723	0.017285373	5	6.42E-01	-0.020746228
WBGene00018415	-0.455585075	3	5.25E+00	0.105329215
WBGene00018414	-0.488585986	11	3.74E+02	-0.750362463
WBGene00003646	-0.599632177	11	1.39E+03	-0.29846311
WBGene00003718	-0.170873875	8	4.34E+00	-0.171561526
WBGene00003693	-0.421515632	5	1.11E+01	-0.752013425
WBGene00003617	-0.045741399	4	8.58E-01	-0.232511359
WBGene00003716	-0.084809997	5	1.24E+00	-0.367122533
WBGene00003724	-0.208302115	8	6.12E+00	-0.570376953
WBGene00003686	-0.777891538	8	1.14E+03	0.152298372
WBGene00018413	0.098975716	8	3.65E-01	-0.058018973
WBGene00018262	0.528936537	13	9.84E-04	0.269775469
WBGene00018261	-0.187409355	11	1.05E+01	-0.244061193
WBGene00018264	0.087530912	7	4.06E-01	0.214233204
WBGene00018260	0.005958433	6	7.42E-01	-0.126332643
WBGene00006279	-0.196927145	5	2.58E+00	-0.098276034
WBGene00023284	-0.00505021	5	7.42E-01	-0.133771953
WBGene00018265	0.051728653	6	5.29E-01	0.048003525
WBGene00202502	-0.484508972	2	3.61E+00	0.64472863
WBGene00018266	-0.038065582	4	8.22E-01	-0.025808174
WBGene00021163	0.075115156	8	4.55E-01	-0.076372792

WBGene00021162	-0.107352289	3	1.02E+00	-0.074310026
WBGene00044521	0.038988036	7	6.07E-01	-0.264710372
WBGene00000027	0.00680417	2	5.54E-01	0.005321317
WBGene00003649	0.02482512	5	6.11E-01	0.19018051
WBGene00020853	0	1	5.26E-01	0
WBGene00020852	-0.141144756	7	2.70E+00	0.135246105
WBGene00020851	-0.62692204	10	1.02E+03	-0.491442677
WBGene00020849	-1	9	4.36E+05	-0.791213457
WBGene00003705	-0.74772263	22	2.92E+07	-0.715456021
WBGene00020850	-1	14	4.45E+08	-1
WBGene00235117	-0.432207369	9	7.58E+01	-0.638337361
WBGene00021232	-0.792345076	8	1.30E+03	-0.54977069
WBGene00021235	-0.247796385	9	1.18E+01	-0.286748061
WBGene00021236	0	6	7.76E-01	0
WBGene00017500	0	1	5.26E-01	0
WBGene00017501	0.520956462	10	3.51E-03	0.654589321
WBGene00017498	1	3	1.19E-03	2
WBGene00017490	0.606788737	1	8.93E-02	0.405745028
WBGene00017499	0	4	6.64E-01	0
WBGene00017497	0	13	1.33E+00	0
WBGene00017491	0	3	6.15E-01	0
WBGene00017492	0.052866999	6	5.25E-01	-0.043686324
WBGene00017493	0.00109209	3	6.11E-01	-0.002115822
WBGene00021222	0	5	7.18E-01	0
WBGene00021224	0	9	9.79E-01	0
WBGene00021223	0	10	1.06E+00	0
WBGene00021221	0	8	9.06E-01	0
WBGene00021226	0	22	2.68E+00	0
WBGene00021227	0	18	1.97E+00	0
WBGene00021220	0	15	1.56E+00	0
WBGene00021219	0	26	3.65E+00	0
WBGene00044734	0	8	9.06E-01	0
WBGene00044099	0	9	9.79E-01	0
WBGene00021217	0	4	6.64E-01	0
WBGene00021228	0	3	6.15E-01	0
WBGene00021216	0	5	7.18E-01	0
WBGene00044735	0	4	6.64E-01	0
WBGene00005137	0	8	9.06E-01	0
WBGene00015731	0	5	7.18E-01	0
WBGene00005148	0	6	7.76E-01	0
WBGene00006170	0	6	7.76E-01	0
WBGene00006171	0	5	7.18E-01	0
WBGene00015730	0	7	8.38E-01	0
WBGene00018913	0	6	7.76E-01	0
WBGene00018912	0	4	6.64E-01	0
WBGene00018915	0	5	7.18E-01	0
WBGene00018911	0	8	9.06E-01	0

WBGene00018917	0	5	7.18E-01	0
WBGene00018910	0	9	9.79E-01	0
WBGene00018918	0	12	1.23E+00	0
WBGene00003521	0	8	9.06E-01	0
WBGene00018920	0	22	2.68E+00	0
WBGene00015273	0	18	1.97E+00	0
WBGene00015272	0	15	1.56E+00	0
WBGene00015271	0	26	3.65E+00	0
WBGene00015270	0	8	9.06E-01	0
WBGene00005138	0	9	9.79E-01	0
WBGene00006284	0	4	6.64E-01	0
WBGene00006136	0	3	6.15E-01	0
WBGene00006283	0	5	7.18E-01	0
WBGene00021571	0	4	6.64E-01	0
WBGene00021570	0	8	9.06E-01	0
WBGene00044131	0	5	7.18E-01	0
WBGene00021572	0	6	7.76E-01	0
WBGene00021573	0	6	7.76E-01	0
WBGene00021569	0	5	7.18E-01	0
WBGene00021568	0	7	8.38E-01	0
WBGene00021567	0	6	7.76E-01	0
WBGene00021566	0	4	6.64E-01	0
WBGene00006200	0	5	7.18E-01	0
WBGene00001758	-0.000363613	10	1.06E+00	-0.110413161
WBGene00021565	-0.125439138	9	3.46E+00	0.015350885
WBGene00005607	-0.545768346	11	7.36E+02	-0.505253476
WBGene00005608	-0.402969759	9	5.65E+01	-0.007181033
WBGene00016233	-0.020606183	1	5.59E-01	-0.000521629
WBGene00016232	0	3	6.15E-01	0
WBGene00016231	0	2	5.69E-01	0
WBGene00016234	0.002186551	7	8.23E-01	-0.098139997
WBGene00018760	-0.189307103	8	5.14E+00	-0.140027724
WBGene00018761	-0.511070384	12	8.31E+02	-0.625720456
WBGene00018762	0.297619969	5	1.04E-01	-0.492440539
WBGene00000056	-0.012974313	24	4.24E+00	-0.028917163
WBGene00018758	0.06113316	5	4.83E-01	-0.120822546
WBGene00005477	-0.301785979	6	7.21E+00	-0.34221172
WBGene00020961	0.006477058	10	9.85E-01	-0.012301758
WBGene00206511	-0.303646686	17	3.38E+02	-0.278325363
WBGene00194896	0.003962405	18	1.83E+00	0
WBGene00302982	-0.480895727	5	1.63E+01	-1
WBGene00020957	-0.104675384	19	1.55E+01	-0.131023488
WBGene00020962	-0.058890501	22	9.60E+00	-0.095257844
WBGene00020955	-0.039366511	27	1.10E+01	-0.120927978
WBGene00003579	0.002540439	5	7.06E-01	-0.244177175
WBGene00020954	-0.152656619	15	1.64E+01	-0.292846091
WBGene00020952	0.098413172	50	2.38E-01	0.054605013

WBGene00020953	0.38242106	3	1.02E-01	0.267941173
WBGene00021564	0.052651763	15	6.92E-01	-0.007851809
WBGene00021563	0.016383057	10	8.84E-01	0.134729875
WBGene00021562	0.115973005	28	1.86E-01	-0.027256613
WBGene00016048	-0.088143738	15	6.07E+00	-0.270365389
WBGene00016049	-0.682664516	11	3.72E+03	-1
WBGene00016050	-0.178050132	7	3.66E+00	-0.375004502
WBGene00016051	-0.341398541	6	9.66E+00	-0.36809454
WBGene00005217	-0.346921119	4	4.64E+00	-0.028264386
WBGene00005216	-0.010849206	3	6.47E-01	-0.007220672
WBGene00006081	-0.452859757	9	9.33E+01	-0.086143979
WBGene00006099	-0.186911733	4	1.89E+00	-0.064424814
WBGene00016052	-0.421645143	3	4.47E+00	-0.306995955
WBGene00005214	-0.353078248	4	4.80E+00	-0.100308313
WBGene00005213	0.017556355	4	6.02E-01	-0.0142603
WBGene00005218	0.00504872	1	5.19E-01	0
WBGene00005219	-0.40883711	10	9.33E+01	-0.230295419
WBGene00005915	-0.219558446	5	2.99E+00	-0.190249636
WBGene00005917	-0.229244313	6	4.22E+00	-0.214897044
WBGene00005919	-0.609605365	4	2.02E+01	-0.501511796
WBGene00005215	-0.666817158	5	5.45E+01	-0.061932997
WBGene00019885	-0.760416806	10	4.39E+03	-0.596890814
WBGene00000977	-0.328264541	9	2.66E+01	-0.259240059
WBGene00019886	-0.978049835	12	3.19E+05	-0.664237119
WBGene00000978	-0.000675359	2	5.70E-01	-0.002190479
WBGene00005279	-0.16473712	5	2.09E+00	0.147108992
WBGene00005606	-0.0057729	2	5.81E-01	0
WBGene00019887	-0.154405649	2	1.03E+00	-0.113262518
WBGene00004130	0.196323742	131	8.98E-07	-0.309705546
WBGene00018824	0.447454908	4	5.42E-02	-0.016781199
WBGene00018823	-0.378544104	4	5.53E+00	-0.157989529
WBGene00268206	-0.128003287	2	9.27E-01	-0.178589584
WBGene00018825	-0.003920365	4	6.79E-01	-0.029988307
WBGene00018826	-0.065479007	4	9.58E-01	-0.015682701
WBGene00005259	-0.055887709	5	1.03E+00	-0.001100413
WBGene00020183	-0.140175911	7	2.67E+00	-0.093787528
WBGene00005749	-0.032598715	6	9.87E-01	0.057439081
WBGene00005629	-0.529132955	8	1.16E+02	-0.41869566
WBGene00005627	-0.519872443	6	3.61E+01	-0.110904861
WBGene00005626	-0.240359449	5	3.42E+00	-0.21510997
WBGene00005628	-0.09067732	5	1.29E+00	-0.107039618
WBGene00020182	-0.461660981	12	4.43E+02	-0.215965836
WBGene00005635	-0.826825388	7	7.87E+02	-1
WBGene00005634	-0.866953972	12	7.75E+04	-0.54969122
WBGene00005633	-0.45019836	5	1.34E+01	-0.810314961
WBGene00005476	-0.493564175	6	2.97E+01	-0.185640184
WBGene00005478	-0.314904165	7	1.14E+01	-0.196344436

WBGene00005447	-0.159666163	5	2.02E+00	-0.133612826
WBGene00005448	-0.411458089	5	1.04E+01	-0.223756732
WBGene00005449	-0.00301283	2	5.75E-01	0
WBGene00018138	-0.047431395	10	1.78E+00	-0.359623429
WBGene00018140	0.26803235	11	4.77E-02	-0.467949399
WBGene00006104	-0.015627029	4	7.25E-01	-0.018255933
WBGene00002055	-0.194023213	15	3.10E+01	-0.47291066
WBGene00018139	-0.017306516	4	7.32E-01	-0.022408017
WBGene00005751	-0.000969062	4	6.68E-01	-0.001054369
WBGene00235329	-0.004423286	1	5.33E-01	-0.008255095
WBGene00005344	-0.037196074	7	1.14E+00	-0.439940841
WBGene00016281	-0.250782728	9	1.22E+01	-0.135512287
WBGene00006111	-0.30552513	4	3.68E+00	-0.145962161
WBGene00016282	-0.018815946	8	1.08E+00	-0.004807608
WBGene00016283	-0.224196512	13	2.84E+01	-0.223504457
WBGene00016284	0	6	7.76E-01	-0.047389018
WBGene00005362	-0.068163071	3	8.47E-01	-0.053458705
WBGene00005261	-0.190014795	7	4.04E+00	-0.254870523
WBGene00016285	-0.195451236	13	1.92E+01	-0.3411068
WBGene00044602	-0.045776272	4	8.58E-01	-0.267862876
WBGene00016279	-0.447507408	7	3.41E+01	-0.117625298
WBGene00005453	-0.007647973	3	6.37E-01	0.075792653
WBGene00005888	-0.097525152	5	1.35E+00	-0.032661284
WBGene00005890	-0.213361914	8	6.41E+00	-0.150546355
WBGene00005884	0	4	6.64E-01	-0.100583201
WBGene00005308	0	2	5.69E-01	-0.005081033
WBGene00005869	-0.081608597	4	1.05E+00	-0.237883513
WBGene00005454	-0.135580386	2	9.54E-01	-0.012714123
WBGene00005889	-0.01147168	4	7.08E-01	-0.017742248
WBGene00005891	-0.339381857	10	4.36E+01	-0.074655211
WBGene00005885	-0.01409253	1	5.49E-01	-0.003080951
WBGene00005309	-0.008690394	2	5.88E-01	-0.059130748
WBGene00005876	0	4	6.64E-01	-0.013387082
WBGene00005870	-0.053634671	5	1.02E+00	-0.000644744
WBGene00005871	-0.048570157	5	9.84E-01	-0.078597967
WBGene00005865	-0.002558867	1	5.30E-01	-0.003342856
WBGene00005864	0	3	6.15E-01	-0.005920846
WBGene00005886	-0.094264173	7	1.83E+00	-0.028199114
WBGene00005306	0	2	5.69E-01	0
WBGene00005868	0	3	6.15E-01	-0.002282073
WBGene00005862	-0.018840198	3	6.72E-01	-0.11832139
WBGene00005867	0	3	6.15E-01	-0.099321068
WBGene00005866	0	3	6.15E-01	0.078640579
WBGene00005859	-0.001533759	2	5.72E-01	-0.004983521
WBGene00005883	0.009308284	5	6.76E-01	0.00191532
WBGene00005882	-0.179156864	4	1.81E+00	-0.079179894
WBGene00019675	-0.218558294	8	6.72E+00	-0.267463517

WBGene00077758	-0.01568218	5	7.95E-01	-0.035556116
WBGene00019105	-0.078905923	8	1.87E+00	-0.151366336
WBGene00019104	-0.124778669	4	1.34E+00	-0.169381068
WBGene00019106	0	10	1.06E+00	-0.138104607
WBGene00005755	0.055281685	5	5.01E-01	-0.088840872
WBGene00019108	-0.345867833	9	3.18E+01	0.133969958
WBGene00019103	0	2	5.69E-01	-0.040949068
WBGene00016855	0	2	5.69E-01	-0.011463165
WBGene00006271	-0.025375069	4	7.66E-01	-0.064751743
WBGene00016856	-0.035346201	6	1.01E+00	-0.029087705
WBGene00016857	0.031367745	4	5.57E-01	-0.039965878
WBGene00005400	-0.112294267	7	2.12E+00	-0.244257466
WBGene00006105	-0.899736287	7	1.44E+03	-1
WBGene00016858	0.152245376	3	3.00E-01	-0.054913682
WBGene00016859	-0.299831614	7	1.00E+01	-0.20486999
WBGene00016852	-0.025990094	3	6.95E-01	-0.171691792
WBGene00016850	0.104038554	5	3.65E-01	-0.13973699
WBGene00016849	-0.122612474	5	1.59E+00	0.199246952
WBGene00016860	-0.066655287	8	1.67E+00	-0.243556348
WBGene00022263	-0.396632752	6	1.45E+01	-0.069816668
WBGene00006128	0.091912937	3	3.99E-01	-0.278205795
WBGene00006131	-0.024327483	5	8.41E-01	-0.008030125
WBGene00006130	-0.678029554	6	1.16E+02	-0.294853385
WBGene00022265	-0.317369931	12	7.05E+01	-0.194179332
WBGene00022262	-0.297354118	12	5.46E+01	-0.095111536
WBGene00022261	-0.144591352	5	1.84E+00	-0.150823677
WBGene00022266	-0.597448641	7	1.18E+02	-0.34961138
WBGene00044524	-0.011987407	1	5.45E-01	-0.09878229
WBGene00022267	-0.034510468	5	8.98E-01	-0.035130945
WBGene00017174	-0.059663042	18	5.79E+00	-0.058764981
WBGene00017173	-0.116130105	8	2.63E+00	-0.357946163
WBGene00017175	-0.228459475	6	4.19E+00	-0.330846898
WBGene00017172	-0.12149705	2	9.04E-01	-0.278213238
WBGene00016475	-0.536801823	7	7.13E+01	-0.473914378
WBGene00016476	-0.044973585	5	9.61E-01	0.008122402
WBGene00016477	-0.01242354	5	7.78E-01	0.009276061
WBGene00016479	0.0530674	5	5.09E-01	0
WBGene00016480	-0.001032123	2	5.71E-01	-0.017934866
WBGene00016474	-0.721912432	2	8.94E+00	0.215092937
WBGene00016481	-0.834636901	2	1.37E+01	-0.20622693
WBGene00016483	-0.716813466	1	4.28E+00	-0.520800094
WBGene00016473	-0.249052322	2	1.47E+00	-0.387284133
WBGene00016484	-1	1	1.38E+01	-0.633720679
WBGene00016472	-0.352460064	4	4.78E+00	-0.152183403
WBGene00016471	-0.478500252	8	7.29E+01	-0.613476317
WBGene00002246	-1	12	3.62E+07	-1
WBGene00022260	-0.001607045	4	6.70E-01	-0.050102972

WBGene00022259	0.003637568	3	6.04E-01	-0.000579247
WBGene00235321	-0.003499957	2	5.76E-01	0
WBGene00022258	-0.071295747	6	1.31E+00	0.010864473
WBGene00044525	-0.033998208	1	5.81E-01	-0.04173884
WBGene00019525	-0.292976453	8	1.33E+01	-0.353606783
WBGene00000168	-0.055842297	27	1.70E+01	-0.024689791
WBGene00019524	-0.684382082	5	6.11E+01	-0.206966954
WBGene00269352	-0.502038972	2	3.86E+00	-0.025251934
WBGene00019527	-0.371540186	9	4.12E+01	-0.490813515
WBGene00235094	0	2	5.69E-01	0.152237351
WBGene00006084	-0.226128744	14	3.85E+01	-0.272975806
WBGene00005599	-0.800836808	8	1.40E+03	-1
WBGene00001771	-0.063378771	4	9.47E-01	-0.110750151
WBGene00005595	-0.097445961	7	1.88E+00	-0.2977193
WBGene00005596	-0.938556755	9	1.24E+04	-0.917766291
WBGene00020875	-0.231600674	3	1.83E+00	-0.291952916
WBGene00020877	-0.869153644	6	4.76E+02	-0.668191168
WBGene00044526	0.000624142	1	5.25E-01	-0.019004914
WBGene00020878	0.000624142	1	5.25E-01	-0.019004914
WBGene00020874	-0.089221708	4	1.09E+00	-0.079422212
WBGene00020879	-0.558567232	10	4.81E+02	-1
WBGene00020880	-0.297277416	1	1.26E+00	-0.505177824
WBGene00020881	-1	3	3.71E+02	-2
WBGene00020882	-2	11	1.35E+09	-2
WBGene00020871	-2	1	7.47E+01	-2
WBGene00020870	-1	3	1.23E+02	-2
WBGene00020883	-0.447598897	10	1.43E+02	-0.851550949
WBGene00020869	-0.545221045	3	8.01E+00	-1
WBGene00269355	-0.083639736	2	7.83E-01	-0.237957771
WBGene00006127	-0.760392926	6	2.13E+02	-0.59928629
WBGene00018055	-2	5	1.60E+04	-2
WBGene00018057	-0.585874158	2	5.32E+00	-1
WBGene00018056	-0.950452251	6	8.68E+02	-1
WBGene00006013	-0.543111584	4	1.39E+01	-1
WBGene00018058	0.0091181	9	8.93E-01	-0.387345372
WBGene00018053	-0.215809488	4	2.22E+00	0.25192113
WBGene00018060	-0.150797428	12	8.44E+00	-0.593028054
WBGene00018061	0.123154567	8	2.93E-01	0.441715949
WBGene00018052	-0.143335341	5	1.82E+00	-0.243813141
WBGene00018062	-0.649647545	4	2.53E+01	-0.661194842
WBGene00018063	-0.563206438	2	4.88E+00	-0.75365401
WBGene00194898	-2	2	9.41E+02	-2
WBGene00015882	-0.240187756	11	1.97E+01	-0.406220306
WBGene00015883	-0.019404142	1	5.57E-01	-0.037643524
WBGene00015879	-0.798749332	16	7.68E+05	-1
WBGene00015878	-1	2	3.54E+01	-2
WBGene00015884	-1	13	4.60E+06	-2

WBGene00015877	-0.900104614	4	1.03E+02	-2
WBGene00015885	-0.336415871	7	1.36E+01	-0.535714523
WBGene00268213	-1	3	2.47E+02	-1
WBGene00006126	-0.424267131	5	1.13E+01	-0.723275783
WBGene00015886	-2	5	7.44E+04	-2
WBGene00015437	-0.338521974	4	4.42E+00	0.136497113
WBGene00015435	-1	12	5.77E+05	-2
WBGene00015434	-0.334276856	15	2.70E+02	-0.338022514
WBGene00015433	-0.145897704	1	8.06E-01	-0.264048646
WBGene00006012	-0.437583367	5	1.23E+01	-0.939822524
WBGene00015438	-0.026396201	4	7.70E-01	-0.229140167
WBGene00020620	-0.617488608	4	2.11E+01	-0.645544026
WBGene00020618	-1	3	2.48E+02	-2
WBGene00020617	-1	3	2.33E+02	-2
WBGene00020616	-1	3	2.50E+02	-1
WBGene00020613	-0.03297853	3	7.18E-01	-0.531024538
WBGene00020612	-0.119224892	13	6.78E+00	-0.432915853
WBGene00020611	-0.388271603	12	1.74E+02	-0.344487696
WBGene00020609	-0.300523965	18	4.53E+02	-0.544704175
WBGene00020623	-0.663491401	8	3.98E+02	-0.451504399
WBGene00020608	-0.421134887	7	2.74E+01	-0.517395206
WBGene00020607	-0.057385927	6	1.18E+00	0.109175031
WBGene00020624	-0.169229678	2	1.08E+00	0.016234009
WBGene00005597	-0.018806544	6	8.91E-01	-0.196466469
WBGene00000478	0.140419276	19	1.48E-01	0.183969515
WBGene00017868	-0.138159718	7	2.63E+00	-0.314635647
WBGene00017867	-0.213562122	7	4.91E+00	-0.187779583
WBGene00001781	-0.583594644	7	1.05E+02	-0.565065211
WBGene00015315	-0.078700943	2	7.68E-01	-0.032140136
WBGene00044088	-0.020983092	9	1.21E+00	-0.057898299
WBGene00044089	-0.009662675	2	5.90E-01	-0.013273784
WBGene00015316	-0.125977534	5	1.63E+00	0
WBGene00003096	-0.001041321	6	7.82E-01	-0.005437151
WBGene00044090	-0.089135596	4	1.09E+00	-0.174104586
WBGene00015317	-0.017254007	3	6.67E-01	-0.026160746
WBGene00015318	-0.00159377	5	7.25E-01	-0.152933791
WBGene00269378	-0.040989449	7	1.18E+00	-0.043528998
WBGene00015576	-0.17484657	10	7.18E+00	-0.068894093
WBGene00015578	-0.113201987	5	1.50E+00	-0.422363903
WBGene00015577	0.073855713	11	4.76E-01	-0.120317281
WBGene00006256	0.003779774	3	6.04E-01	-0.115637354
WBGene00006259	-0.499654837	7	5.25E+01	-0.647056465
WBGene00006257	-0.38095301	7	1.96E+01	-0.443001693
WBGene00006258	-0.470636754	10	1.84E+02	-0.020108588
WBGene00015574	-0.189931063	4	1.92E+00	-0.037076513
WBGene00020747	-0.041613941	2	6.67E-01	-0.003229766
WBGene00006286	-0.125236818	8	2.86E+00	-0.125380082

WBGene00020746	-0.147000439	4	1.51E+00	-0.055130349
WBGene00020748	-0.063362957	8	1.62E+00	-0.248015041
WBGene00003683	-0.037194503	7	1.14E+00	-0.149893324
WBGene00020749	-0.044763613	4	8.53E-01	-0.005994123
WBGene00020750	-0.076661638	6	1.37E+00	-0.200947233
WBGene00020752	-0.220725329	6	3.96E+00	-0.060733435
WBGene00005877	-0.068140505	7	1.47E+00	-0.179247916
WBGene00005533	-0.031261156	3	7.12E-01	-0.003894935
WBGene00001737	-0.060607015	3	8.18E-01	-0.078315872
WBGene00020756	-0.074669129	5	1.17E+00	-0.098337786
WBGene00001738	0.003486056	2	5.61E-01	0.001197284
WBGene00001739	0.049330694	3	4.87E-01	-0.175568409
WBGene00020755	-0.063165076	3	8.28E-01	-0.351206212
WBGene00020744	-0.679415154	4	2.98E+01	-0.803441926
WBGene00020753	-0.142578662	4	1.48E+00	0.027436155
WBGene00020754	0	1	5.26E-01	-0.003142503
WBGene00018229	0	1	5.26E-01	0
WBGene00018228	-0.056656651	4	9.12E-01	-0.329876835
WBGene00001736	-0.000950804	4	6.68E-01	-0.161714612
WBGene00020696	0.580755533	44	5.62E-10	0.33514521
WBGene00004422	0.981903217	4	2.72E-03	0.884576395
WBGene00020695	0.819658452	9	2.56E-04	0.934337175
WBGene00044705	-0.178622838	9	5.91E+00	0.110110698
WBGene00005423	-0.208484834	10	1.04E+01	0.051573273
WBGene00005422	-0.002617196	8	9.28E-01	-0.265560715
WBGene00020697	-0.000816466	5	7.22E-01	-0.001880067
WBGene00020698	-0.095281435	5	1.33E+00	-0.031483141
WBGene00020699	-0.255411276	9	1.28E+01	-0.083628823
WBGene00020700	-0.541582481	15	6.60E+03	-0.563858834
WBGene00005984	-0.188919563	4	1.91E+00	-0.077642013
WBGene00019098	-0.057354558	9	1.74E+00	-0.099142644
WBGene00019099	0	3	6.15E-01	-7.74E-05
WBGene00019097	0.124669494	2	3.53E-01	-0.147399253
WBGene00005932	-0.463916873	10	1.71E+02	-0.651862338
WBGene00019100	-0.555824635	7	8.35E+01	-0.685461635
WBGene00019101	-0.339897584	10	4.38E+01	-0.283213871
WBGene00006165	0.025080369	4	5.77E-01	-0.041250111
WBGene00000062	0.073802234	14	4.93E-01	-0.064768455
WBGene00006164	-0.084737252	13	4.24E+00	-0.39015092
WBGene00044527	0.113443908	7	3.28E-01	-0.138533007
WBGene00194902	-0.127783745	5	1.65E+00	-0.04657105
WBGene00021081	-0.06170783	11	2.37E+00	-0.108999458
WBGene00021080	0.147382392	18	1.36E-01	-0.462809884
WBGene00021079	-0.124946943	5	1.62E+00	-0.51928008
WBGene00021078	0.156072002	52	1.43E-02	-0.138543321
WBGene00003025	0.347017548	31	1.80E-04	0.051002108
WBGene00020854	0.234984023	9	9.19E-02	0.533484379

WBGene00006096	0	4	6.64E-01	-0.002099914
WBGene00020855	-0.049189076	31	2.32E+01	0.004403522
WBGene00003479	0.091277933	17	3.78E-01	0.029459608
WBGene00021482	0.040557198	31	1.61E+00	-0.006414982
WBGene00000498	-0.11556812	10	3.75E+00	-0.059795896
WBGene00021479	-0.36483085	32	4.10E+05	-0.486024849
WBGene00021478	-0.014954105	3	6.59E-01	0.094498298
WBGene00019964	-0.147314275	8	3.50E+00	-0.596169142
WBGene00019961	-0.712176702	8	6.22E+02	-1
WBGene00019963	-0.790453957	15	3.06E+05	-0.122845757
WBGene00019962	-0.721346709	11	5.89E+03	-0.222136682
WBGene00019965	-0.116014625	23	3.97E+01	-0.329413155
WBGene00019970	-0.581566962	20	2.42E+05	-0.75337255
WBGene00019966	-0.48123613	10	2.06E+02	-0.320642981
WBGene00019967	-0.053129155	11	2.14E+00	-0.269147995
WBGene00019968	-0.748278732	9	1.82E+03	-0.76721197
WBGene00005754	-0.37001463	3	3.51E+00	-0.131374238
WBGene00005753	9.17E-05	7	8.37E-01	-0.12567835
WBGene00019179	-0.388059165	4	5.84E+00	-0.242012295
WBGene00019178	-0.387129138	6	1.35E+01	0.125160342
WBGene00019180	0.463242176	30	7.96E-06	0.357063104
WBGene00019177	1	6	2.87E-05	2
WBGene00018543	-0.197314919	10	9.19E+00	-0.305932485
WBGene00018539	-0.107834442	10	3.45E+00	-0.47847774
WBGene00018541	-0.090135873	5	1.29E+00	-0.104814888
WBGene00018544	-0.029645679	3	7.07E-01	0.061378397
WBGene00018545	-0.247960807	4	2.66E+00	-0.342510029
WBGene00018542	0.02828044	3	5.38E-01	-0.089195874
WBGene00015900	-0.238616053	5	3.38E+00	-0.330461015
WBGene00015901	-0.034683968	8	1.24E+00	-0.019671011
WBGene00015902	-0.153438731	8	3.70E+00	-0.129236178
WBGene00003714	-0.123080669	12	5.93E+00	-0.124985744
WBGene00015906	-0.483966863	5	1.66E+01	-0.095161117
WBGene00015903	-0.479166676	6	2.67E+01	-0.681440334
WBGene00015905	-0.706130388	8	5.88E+02	-0.838106158
WBGene00015899	-0.236267146	5	3.33E+00	-0.100520216
WBGene00015898	-0.278104539	8	1.16E+01	-0.032138492
WBGene00015904	-0.073006264	5	1.15E+00	0.09264616
WBGene00006260	0.096581227	4	3.87E-01	0.188471116
WBGene00005404	-0.029679488	7	1.07E+00	0.330991302
WBGene00015897	-0.36911842	7	1.78E+01	0.148087804
WBGene00005959	-0.431447008	7	2.98E+01	-0.562981138
WBGene00005958	-0.005251974	4	6.84E-01	-0.032787814
WBGene00005957	-0.076737411	7	1.58E+00	0.112644658
WBGene00005956	-0.534743743	6	4.03E+01	-0.274970708
WBGene00005955	0	3	6.15E-01	0
WBGene00005954	-0.544639339	5	2.47E+01	-0.381578305

WBGene00019473	-0.439867243	10	1.31E+02	-0.460394552
WBGene00019472	-0.304448027	7	1.04E+01	-0.080070586
WBGene00019471	-0.135376311	9	3.82E+00	-0.216264231
WBGene00019470	-0.049662681	8	1.43E+00	-0.074785251
WBGene00020386	-0.057281836	9	1.74E+00	-0.054047398
WBGene00006274	-0.683432263	7	2.40E+02	-0.263904646
WBGene00015040	-0.711394284	11	5.24E+03	-0.336802764
WBGene00015041	-0.222364445	10	1.21E+01	-0.313375423
WBGene00015042	-0.102671007	7	1.96E+00	-0.062910442
WBGene00015043	-0.122072826	9	3.34E+00	-0.018059937
WBGene00015044	-0.251108809	8	9.06E+00	-0.190061172
WBGene00015045	-0.17999535	13	1.55E+01	-0.301248818
WBGene00006141	-0.01345218	2	5.99E-01	-0.003085652
WBGene00006142	-0.012687003	2	5.97E-01	-0.003468944
WBGene00015046	-0.020808971	2	6.16E-01	-0.125592979
WBGene00003769	-0.992607162	2	2.51E+01	-2
WBGene00003768	-0.230482988	6	4.26E+00	-0.232440027
WBGene00003767	0	2	5.69E-01	-0.484014869
WBGene00003766	-0.153710818	1	8.25E-01	-0.320016815
WBGene00003765	-0.485625152	3	6.05E+00	0.079928208
WBGene00019567	-0.282587383	10	2.34E+01	-0.023521723
WBGene00005953	-0.631230344	5	4.33E+01	-0.1572625
WBGene00005234	-0.000718756	3	6.17E-01	0.00178222
WBGene00005233	-0.007682504	3	6.37E-01	-0.002528392
WBGene00005230	-0.330073644	3	2.91E+00	-0.108081646
WBGene00005836	-0.129796802	6	2.02E+00	-0.211518079
WBGene00019566	-0.029587297	3	7.07E-01	0.008902194
WBGene00269424	0.046325035	4	5.12E-01	-0.039634732
WBGene00019565	-0.087864803	4	1.09E+00	-0.147589314
WBGene00019564	-0.532555412	7	6.89E+01	-0.520365002
WBGene00016786	-0.259856595	5	3.88E+00	0.064478789
WBGene00016785	-0.130978176	8	3.01E+00	-0.094927323
WBGene00269425	-0.200163135	6	3.40E+00	-0.215357082
WBGene00077593	-0.667864082	8	4.14E+02	-0.085593495
WBGene00016788	-0.270817407	7	7.89E+00	-0.253478227
WBGene00016783	-0.964502611	8	6.29E+03	-0.645169691
WBGene00016782	-0.492854591	7	4.96E+01	-0.290630391
WBGene00016781	-0.427543314	7	2.89E+01	-0.667499217
WBGene00005385	0.041983814	3	5.04E-01	-0.097705254
WBGene00016789	0.004341009	2	5.59E-01	0
WBGene00017034	-0.416787511	12	2.50E+02	-0.277476315
WBGene00005421	-0.025608239	3	6.93E-01	0
WBGene00018190	-0.031606392	4	7.93E-01	0.016370008
WBGene00018189	-0.057281095	18	5.54E+00	-0.20498407
WBGene00005624	-0.190764366	8	5.21E+00	-0.245760145
WBGene00005623	-0.845444739	9	4.85E+03	-1
WBGene00194894	-0.137660424	3	1.18E+00	-0.599718279

WBGene00005881	-0.01186431	3	6.50E-01	-0.017768343
WBGene00005880	-0.087530157	4	1.08E+00	-0.012243485
WBGene00020239	-0.357035833	6	1.08E+01	-0.260193887
WBGene00020240	-0.212114055	7	4.85E+00	-0.080956065
WBGene00020241	-0.465916746	6	2.42E+01	-0.141777951
WBGene00020242	-0.135652484	4	1.42E+00	-0.122241189
WBGene00020243	-0.235619164	3	1.86E+00	-0.116503693
WBGene00020244	0	3	6.15E-01	0
WBGene00020237	-0.441712984	3	4.92E+00	-1
WBGene00003647	-0.413041941	5	1.05E+01	-0.148918372
WBGene00020236	0.160012007	10	1.83E-01	-0.034965745
WBGene00044528	-0.300216035	22	1.79E+03	-0.018326548
WBGene00021554	-0.352851477	10	5.05E+01	-0.276903348
WBGene00021558	-0.055797973	20	6.96E+00	-0.207102427
WBGene00021557	0.034430778	3	5.23E-01	-0.042644065
WBGene00043666	0	4	6.64E-01	0.313088175
WBGene00021556	-0.183142545	8	4.86E+00	-0.432075569
WBGene00021559	-0.042049315	12	2.11E+00	-0.038186214
WBGene00021560	-0.048196125	13	2.57E+00	-0.019162012
WBGene00021555	-0.206837844	23	3.08E+02	-0.344295627
WBGene00021561	0.067245343	40	8.55E-01	-0.054019725
WBGene00003704	0.253888911	19	1.71E-02	-0.014224465
WBGene00019276	0.078508585	8	4.41E-01	0.111619964
WBGene00019275	-0.08738874	12	3.76E+00	-0.004310423
WBGene00019274	-0.002614015	13	1.38E+00	-0.026681695
WBGene00269429	0.002477892	1	5.23E-01	0.030605554
WBGene00003747	0.854618103	6	1.41E-03	0.651813937
WBGene00003751	2	13	1.21E-09	1
WBGene00005415	0.043046612	2	4.83E-01	0.010752384
WBGene00017107	-0.362992945	9	3.78E+01	-0.377752929
WBGene00022528	-0.351643357	6	1.04E+01	-0.094022269
WBGene00022529	-0.001614769	5	7.25E-01	0.014569609
WBGene00018554	-0.071097045	4	9.89E-01	-0.234034498
WBGene00018555	-0.215942215	9	8.60E+00	-0.324310283
WBGene00018556	-0.15507755	3	1.28E+00	-0.022077819
WBGene00018557	-0.010455223	4	7.04E-01	-0.018114325
WBGene00018558	-0.318916425	10	3.48E+01	-0.435295921
WBGene00018559	-0.302083661	4	3.61E+00	-0.053973547
WBGene00018552	-0.11754328	7	2.22E+00	-0.050122086
WBGene00005406	-0.834126786	6	3.68E+02	-0.790366728
WBGene00005407	-0.080593325	3	8.98E-01	-0.029391495
WBGene00206392	-0.359594372	8	2.45E+01	-0.349150802
WBGene00269432	-0.580474417	9	3.37E+02	-0.871312352
WBGene00022522	0.193170035	6	1.86E-01	-0.436687181
WBGene00005405	-0.000128843	9	9.80E-01	-0.066245858
WBGene00022527	-0.170627957	8	4.33E+00	0.1206229
WBGene00235310	-0.119901311	3	1.08E+00	-0.023317425

WBGene00003715	0.029060362	8	6.94E-01	-0.086355171
WBGene00017060	0.326554631	8	4.53E-02	0.094936061
WBGene00017061	0.083015769	12	4.29E-01	0.063431656
WBGene00044529	0.10573224	8	3.43E-01	-0.094266316
WBGene00017062	0.005153569	10	9.99E-01	-0.017460977
WBGene00017981	-0.025054057	13	1.88E+00	0.162479284
WBGene00017982	-0.206381718	4	2.11E+00	0.068480986
WBGene00003159	-0.247698595	21	4.26E+02	-0.354533265
WBGene00017983	0.086348252	36	4.15E-01	-0.005876443
WBGene00001722	-0.173397782	3	1.39E+00	0.075724455
WBGene00044530	-0.406637705	4	6.48E+00	0.10373383
WBGene00017984	-0.037085306	7	1.14E+00	0.040195851
WBGene00017988	0.274918169	20	9.70E-03	-0.339932833
WBGene00017985	0.677068326	3	2.54E-02	-0.116581958
WBGene00017986	-0.407460162	5	1.01E+01	-1
WBGene00017987	-0.01674035	3	6.65E-01	-0.147231505
WBGene00017410	-0.146928699	2	9.96E-01	-0.210121935
WBGene00017411	-0.721098575	12	1.21E+04	-0.362564844
WBGene00195154	0	3	6.15E-01	0
WBGene00044531	-0.127193889	4	1.35E+00	-0.07323361
WBGene00017412	0.018944992	5	6.35E-01	-0.022118731
WBGene00017413	-0.198771505	8	5.61E+00	0.069178949
WBGene00017414	-0.00621078	3	6.33E-01	-0.014419099
WBGene00003708	-0.028688655	8	1.18E+00	-0.146675855
WBGene00021617	0	3	6.15E-01	0.039115718
WBGene00195160	0	1	5.26E-01	0.008777788
WBGene00001714	-0.043687363	8	1.35E+00	-0.011546005
WBGene00235165	-0.053189945	3	7.90E-01	-0.029163361
WBGene00021619	0	1	5.26E-01	0.142411328
WBGene00021620	-0.181423408	2	1.14E+00	0.22181054
WBGene00021616	-0.11706028	2	8.89E-01	-0.072804354
WBGene00004820	-0.635615933	4	2.34E+01	-0.326520139
WBGene00004813	-0.403074274	3	4.10E+00	-0.148244576
WBGene00021621	-0.222647623	1	1.01E+00	-0.482516962
WBGene00269437	-0.15648327	3	1.28E+00	-0.385056678
WBGene00021623	0	2	5.69E-01	0
WBGene00021624	-0.012699304	3	6.53E-01	-0.008322318
WBGene00021627	-0.237155428	15	6.04E+01	-0.121578595
WBGene00021625	0	1	5.26E-01	0
WBGene00044637	-0.195314342	12	1.49E+01	-0.020983446
WBGene00021626	-0.136363662	17	1.90E+01	-0.018913398
WBGene00019224	-0.165297188	28	3.72E+02	-0.282390063
WBGene00020370	-0.128385512	5	1.65E+00	0.000331661
WBGene00006101	-0.012621349	7	9.30E-01	0.150311869
WBGene00020369	-0.027454596	4	7.75E-01	0
WBGene00006796	0.838163918	43	2.65E-14	0.492545584
WBGene00020904	-0.291877441	13	7.14E+01	-0.372339392

WBGene00004947	0.230580775	104	4.88E-07	0.004079911
WBGene00044586	-0.088809611	2	7.98E-01	-0.755270695
WBGene00022018	-0.002558867	1	5.30E-01	-0.000322757
WBGene00022016	-0.002059873	2	5.73E-01	-0.000259817
WBGene00022019	-0.027883578	24	6.02E+00	0.016834695
WBGene00022015	0.017918243	35	4.04E+00	-0.046414319
WBGene00022020	-0.021386059	3	6.80E-01	-0.039887076
WBGene00022014	-0.108353058	53	6.22E+03	0.086446724
WBGene00022022	0.017576266	4	6.02E-01	-0.018591883
WBGene00022021	0.127491175	29	1.31E-01	0.103730978
WBGene00018814	0.205724585	9	1.23E-01	0.114387139
WBGene00018812	0.022709219	24	1.84E+00	0.097023705
WBGene00018811	-0.171939059	21	8.83E+01	-0.353735745
WBGene00004928	-0.033991234	12	1.90E+00	0.0027423
WBGene00018297	-0.169344099	2	1.09E+00	0.034402815
WBGene00044533	-0.000101687	2	5.69E-01	2.17E-05
WBGene00000712	-0.85567897	9	5.38E+03	-0.877446413
WBGene00018296	-0.4387744	3	4.85E+00	-0.210936902
WBGene00269385	-0.118999013	2	8.96E-01	-0.239632716
WBGene00005965	-0.018232679	7	9.75E-01	0.011392866
WBGene00005964	-0.000843001	9	9.87E-01	-0.114433233
WBGene00005968	-0.275071388	5	4.28E+00	-0.40551643
WBGene00219236	-0.585438943	7	1.07E+02	-0.408625185
WBGene00219235	-0.069911972	3	8.54E-01	-0.085843326
WBGene00019356	-0.329854149	2	2.00E+00	-0.262291849
WBGene00019355	-0.26760153	14	7.04E+01	-0.387510693
WBGene00006392	-0.230872934	6	4.27E+00	-0.654538564
WBGene00019354	-0.177286972	7	3.64E+00	0.135758737
WBGene00019353	0.123272421	13	2.48E-01	0.152374482
WBGene00019357	0.412495896	8	2.06E-02	-0.131276534
WBGene00022584	-0.159093373	17	2.81E+01	-0.16077674
WBGene00018211	-0.011469132	11	1.31E+00	-0.046665574
WBGene00004195	-0.020806088	11	1.46E+00	-0.017949314
WBGene00018210	-0.543162255	10	4.06E+02	0.00872239
WBGene00018209	0.293281283	6	8.89E-02	0.295521474
WBGene00006570	0.236382571	12	6.07E-02	0.127405714
WBGene00018208	0.184242786	21	5.40E-02	0.201417976
WBGene00018207	-0.147823485	11	6.59E+00	-0.138324445
WBGene00018206	-0.228231477	8	7.35E+00	-0.402438938
WBGene00015985	-0.765922413	11	9.99E+03	-0.537787425
WBGene00015984	-0.159929008	16	2.29E+01	-0.200053104
WBGene00001855	-0.206991443	6	3.58E+00	-0.866813818
WBGene00003994	-0.965203482	18	7.59E+07	-0.633329153
WBGene00015982	-0.237159618	7	5.97E+00	-0.383078214
WBGene00015986	-0.000561715	5	7.20E-01	-0.001279648
WBGene00015987	-0.062728414	5	1.08E+00	0.041514551
WBGene00015981	-0.106084363	2	8.53E-01	0

WBGene00015980	0.385296392	9	2.03E-02	0.019500988
WBGene00022013	0.155790972	3	2.95E-01	0.096611246
WBGene00202498	-0.117798429	2	8.92E-01	0.143549955
WBGene00271832	-0.222647623	3	1.75E+00	0.381306156
WBGene00202496	-0.000520179	5	7.20E-01	0
WBGene00202497	-0.010372522	2	5.92E-01	-0.003571486
WBGene00271816	-0.240048097	6	4.57E+00	-0.200519852
WBGene00235320	-0.34470542	4	4.58E+00	-0.513905928
WBGene00019840	-0.964830745	11	1.05E+05	-0.53654464
WBGene00019839	-0.763269622	5	1.02E+02	-0.689470654
WBGene00019841	-0.276181974	17	2.11E+02	-0.002870711
WBGene00019842	-0.081703108	17	7.42E+00	-0.015444244
WBGene00016509	0.024418698	21	1.49E+00	-0.277487943
WBGene00002010	0.387818813	16	3.01E-03	-0.308200667
WBGene00016508	0.061317802	27	7.95E-01	0.046092062
WBGene00045308	0.216284707	10	9.89E-02	0.346413663
WBGene00003528	-0.345732733	18	1.03E+03	-0.174854659
WBGene00000859	-0.000292329	2	5.69E-01	0.041426392
WBGene00000860	-0.185185358	3	1.47E+00	-0.118811371
WBGene00000861	-0.003574325	2	5.77E-01	0.041876993
WBGene00016507	0.014422745	15	1.25E+00	-0.001392831
WBGene00016506	-0.754322124	13	3.91E+04	-0.006819851
WBGene00003591	-0.285825166	20	6.75E+02	-0.315432969
WBGene00016511	-0.027695484	19	3.59E+00	0.329997018
WBGene00005110	0.069770151	10	4.92E-01	0.104047918
WBGene00005111	0.028246159	6	6.30E-01	-0.140526783
WBGene00020590	-0.256284182	12	3.23E+01	-0.70957539
WBGene00271827	-0.169477592	3	1.37E+00	-0.119825874
WBGene00006098	-0.280991431	7	8.58E+00	-0.165057751
WBGene00044282	-0.526228564	5	2.19E+01	-0.318015012
WBGene00020589	-0.012891495	2	5.97E-01	-0.05571902
WBGene00020592	-0.804334567	14	1.71E+05	-1
WBGene00020588	0.030588208	6	6.19E-01	-0.457867835
WBGene00020593	-0.583044151	13	3.78E+03	-0.403087719
WBGene00020587	-0.626138436	14	1.29E+04	-0.387788623
WBGene00020594	0.073697951	12	4.83E-01	-0.193006387
WBGene00019235	-0.303081028	12	5.87E+01	-0.799390275
WBGene00019234	-0.604618891	10	7.97E+02	-0.472731647
WBGene00019233	-0.387133881	11	1.12E+02	-0.337523092
WBGene00019232	-0.537269658	17	1.88E+04	-0.582305189
WBGene00019236	-0.026502509	3	6.96E-01	-0.323571299
WBGene00044534	0.103067116	7	3.57E-01	-0.121853555
WBGene00015340	-0.222647623	1	1.01E+00	-0.076579313
WBGene00015339	-0.263332136	1	1.14E+00	0.272019332
WBGene00015341	-0.547183247	5	2.51E+01	-0.099843736
WBGene00005248	-0.264649456	3	2.14E+00	-0.116241533
WBGene00005247	-0.369792682	5	7.92E+00	-0.039282368

WBGene00005245	-0.016845882	2	6.07E-01	-0.028037858
WBGene00005246	-0.004381899	3	6.27E-01	-0.041089289
WBGene00006238	-0.182257211	5	2.34E+00	0.158663266
WBGene00015342	-0.674208361	5	5.72E+01	-0.451901322
WBGene00015338	-0.342169193	18	9.62E+02	-0.333737886
WBGene00006244	-0.349825882	3	3.19E+00	-0.114367849
WBGene00006242	-0.080545991	3	8.98E-01	-0.087701383
WBGene00006240	-0.646090777	7	1.76E+02	-0.403441969
WBGene00006241	-0.129161115	5	1.66E+00	-0.325159283
WBGene00006523	0.459887354	27	2.38E-05	-0.089362721
WBGene00017845	-0.018124083	1	5.55E-01	-0.012437462
WBGene00044117	-0.344895682	4	4.58E+00	-0.137970423
WBGene00017843	-0.287420809	13	6.72E+01	-0.790569888
WBGene00015736	-0.110808124	2	8.68E-01	-0.042163542
WBGene00015737	-1	4	4.25E+02	-1
WBGene00015738	-0.026084612	3	6.95E-01	-0.028105454
WBGene00003573	-1	15	2.63E+07	-1
WBGene00003574	-0.105043237	8	2.37E+00	-0.166575264
WBGene00015739	-0.302821708	14	1.17E+02	-0.461902233
WBGene00005659	-0.854452445	7	9.90E+02	-0.903510402
WBGene00005657	-0.237766117	7	6.00E+00	-0.395909674
WBGene00005655	-0.145154776	12	7.85E+00	-0.139721104
WBGene00019644	-0.547454179	17	2.24E+04	-1
WBGene00019645	-0.08874737	6	1.49E+00	0.31562665
WBGene00044535	-0.002746203	2	5.75E-01	-0.160773653
WBGene00019646	0.229940587	5	1.61E-01	-0.255222974
WBGene00019647	0.657964928	2	4.62E-02	0.289316681
WBGene00019650	0.023442755	3	5.50E-01	0.022941938
WBGene00019648	-0.159143144	9	4.86E+00	-0.717584407
WBGene00019649	-0.030033162	12	1.81E+00	-0.229026088
WBGene00004136	-0.123731646	12	5.97E+00	-0.139772365
WBGene00303069	0.087304984	1	4.08E-01	-0.311926733
WBGene00019651	-0.287220781	2	1.70E+00	0.053699024
WBGene00000862	-0.384848625	9	4.71E+01	-0.192033423
WBGene00003374	0.173363883	24	5.36E-02	0.280114356
WBGene00021975	0.149205941	8	2.30E-01	0.117628294
WBGene00021976	-0.051275938	4	8.85E-01	-0.06170914
WBGene00021977	-0.617508146	13	6.05E+03	0.115010084
WBGene00021978	-0.085771081	12	3.68E+00	-0.036153913
WBGene00021979	-0.027290734	3	6.99E-01	0.038681763
WBGene00021980	-0.650381556	10	1.32E+03	-0.854909527
WBGene00015444	-0.109259927	9	2.94E+00	-0.037111743
WBGene00006782	-0.140316164	5	1.79E+00	-0.033620707
WBGene00015446	9.64E-05	5	7.17E-01	-0.012563791
WBGene00015447	-0.317398854	4	3.93E+00	-0.54596391
WBGene00015448	-0.098294885	3	9.76E-01	-0.002384587
WBGene00015449	-0.018601305	8	1.07E+00	-0.123696508

WBGene00015450	-0.556506763	8	1.49E+02	0.009723584
WBGene00015451	-0.021045085	14	1.96E+00	-0.059390123
WBGene00004795	-0.029870239	22	5.12E+00	-0.211015128
WBGene00017468	-0.015805123	11	1.38E+00	-0.005466365
WBGene00044536	0.094907583	5	3.88E-01	-0.157820397
WBGene00017467	0.009351021	8	8.31E-01	0
WBGene00017466	-0.204545333	9	7.67E+00	-0.178715488
WBGene00005346	-0.289210022	6	6.57E+00	-0.172457531
WBGene00017465	-0.131799713	9	3.69E+00	-0.137392282
WBGene00017469	-0.032486269	1	5.79E-01	-0.034004671
WBGene00005347	-0.045393964	6	1.08E+00	-0.188146145
WBGene00005929	0	4	6.64E-01	-0.010408771
WBGene00005930	-0.172577629	3	1.39E+00	-0.000539798
WBGene00004099	-0.667031473	3	1.42E+01	-0.589109717
WBGene00000029	-0.86153221	4	8.28E+01	-0.928174299
WBGene00000031	-0.421263637	108	2.15E+21	-0.465963225
WBGene00000030	-0.763896014	4	4.79E+01	-0.771375066
WBGene00005887	-0.013519241	2	5.99E-01	-0.010389388
WBGene00015367	-0.588448832	8	2.00E+02	-0.664871377
WBGene00015368	-0.103942009	6	1.67E+00	-0.191197775
WBGene00015369	-0.007474584	9	1.06E+00	-0.009290598
WBGene00015371	-0.632461353	65	2.35E+18	-0.775257934
WBGene00015366	-0.803209434	10	7.02E+03	-0.631808381
WBGene00021614	-0.171049952	8	4.35E+00	0.554339155
WBGene00021613	-0.056181511	24	1.17E+01	-0.03513381
WBGene00021732	-0.19341794	27	6.19E+02	-0.085549604
WBGene00016862	-0.460564434	9	1.01E+02	-0.445828285
WBGene00016863	-0.288872127	5	4.68E+00	-0.266349915
WBGene00016864	-0.235899727	6	4.43E+00	-0.142896496
WBGene00044537	0	1	5.26E-01	-0.004907157
WBGene00015067	-0.223690741	7	5.34E+00	-0.226264605
WBGene00015068	-0.000218364	3	6.15E-01	-0.000568312
WBGene00015069	-0.119271556	4	1.30E+00	-0.110134499
WBGene00015070	-0.185260327	6	3.05E+00	-0.258644949
WBGene00015071	0.048604108	5	5.23E-01	0.020932528
WBGene00015072	-0.087731652	7	1.73E+00	-0.050918464
WBGene00015076	-0.235919389	5	3.32E+00	-0.15706789
WBGene00015075	-0.341513663	8	2.08E+01	-0.395699839
WBGene00015074	0.833385741	8	4.34E-04	0.14911547
WBGene00015073	0.36631051	11	1.49E-02	0.126927825
WBGene00021731	-0.074003074	2	7.54E-01	0
WBGene00003567	0.336666025	42	2.10E-05	-0.221440531
WBGene00015683	-0.062195477	3	8.24E-01	0.566979925
WBGene00015682	0.02117495	3	5.56E-01	0.2013629
WBGene00015681	0.157580067	4	2.75E-01	0.663951075
WBGene00000455	0.585866283	21	1.28E-05	0.002903949
WBGene00000454	0.003583977	2	5.61E-01	0.060259194

WBGene00015684	0.467468851	16	8.21E-04	0.349019555
WBGene00005183	0.261123377	3	1.80E-01	0.237910575
WBGene00005185	-0.002489184	5	7.29E-01	-0.045125257
WBGene00005186	-0.131212604	5	1.68E+00	-0.033533842
WBGene00005184	-0.020476898	2	6.15E-01	-0.033137749
WBGene00005182	-0.063816845	7	1.42E+00	-0.042461184
WBGene00020384	-0.000966966	6	7.81E-01	-0.048160861
WBGene00005087	-0.338414414	3	3.02E+00	-0.442829013
WBGene00020385	0.001018969	11	1.13E+00	0.089838948
WBGene00044538	0.022252141	4	5.86E-01	-0.208856332
WBGene00195171	-0.115134861	6	1.82E+00	-0.063217604
WBGene00016430	-0.221123144	12	2.07E+01	-0.2155031
WBGene00016429	-0.565625079	13	2.98E+03	-0.37494791
WBGene00016431	-0.497530531	11	4.15E+02	-0.436862346
WBGene00016428	0.889265993	6	1.09E-03	0.872509978
WBGene00016081	0.70352602	11	2.74E-04	0.023422984
WBGene00017262	-0.230834976	10	1.33E+01	-0.011119861
WBGene00017266	0.244953791	4	1.68E-01	-0.333575013
WBGene00017263	0.08346719	8	4.21E-01	-0.060848993
WBGene00000373	0.053416763	5	5.07E-01	0.016359926
WBGene00004358	-0.21492306	13	2.50E+01	0.134138322
WBGene00017264	-0.38301219	7	2.00E+01	-0.043286235
WBGene00017261	-0.147898455	11	6.59E+00	0.10754956
WBGene00017265	-0.44747176	18	6.47E+03	-0.31584229
WBGene00017260	0.952683109	10	3.10E-05	0.671023484
WBGene00001593	-0.049969059	12	2.33E+00	0.050575591
WBGene00022588	-0.336610344	6	9.32E+00	-0.235013653
WBGene00005224	-0.174191108	4	1.76E+00	-0.399664451
WBGene00005225	-0.222325415	3	1.75E+00	-0.006728983
WBGene00022589	-0.024195779	8	1.13E+00	-0.125374153
WBGene00022590	-0.633731779	10	1.10E+03	-0.513004311
WBGene00005223	-0.112525903	4	1.25E+00	-0.117230674
WBGene00005222	0	3	6.15E-01	0
WBGene00001727	0.025360495	8	7.18E-01	-0.033181491
WBGene00020256	-0.181965156	7	3.78E+00	-0.097787199
WBGene00020254	-0.532463961	40	5.77E+09	-0.458872444
WBGene00001037	0.023624556	5	6.16E-01	0.351170569
WBGene00003637	-0.042992012	21	6.06E+00	0.370480051
WBGene00016061	-0.323618922	16	3.30E+02	-0.175844972
WBGene00016060	0.077163723	13	4.66E-01	-0.204849328
WBGene00016059	-0.29761729	19	6.05E+02	-0.226321374
WBGene00001710	0.023738672	9	7.71E-01	-0.189391664
WBGene00016062	0.221992919	10	9.29E-02	-0.241389622
WBGene00302991	0.09277465	7	3.89E-01	-0.127533829
WBGene00006376	-0.309866954	6	7.65E+00	-0.075765286
WBGene00000477	-0.325312913	21	2.14E+03	-0.342131213
WBGene00015965	-0.472638096	10	1.88E+02	-0.196622589

WBGene00015968	-0.306429929	46	9.36E+06	-0.193273802
WBGene00015964	-0.268012755	8	1.06E+01	-0.284992297
WBGene00015969	0.230332941	12	6.56E-02	-0.074120293
WBGene00002215	0.898977194	14	3.07E-06	0.794698479
WBGene00003927	0.60151518	2	5.73E-02	0.502361459
WBGene00044542	0.171174122	20	7.63E-02	0.006285177
WBGene00016990	0.711264051	3	2.16E-02	0.6839992
WBGene00016989	0.84559699	5	2.96E-03	0.442432693
WBGene00000795	0.722203816	6	3.74E-03	0.459714041
WBGene00016992	1	4	1.40E-03	0.808364718
WBGene00016993	0.908869819	13	5.54E-06	1
WBGene00016988	0.663334865	13	1.57E-04	0.639340628
WBGene00019756	0.229905982	13	5.81E-02	-0.021930196
WBGene00019755	0.192726899	3	2.48E-01	0.1047467
WBGene00019754	0.028431301	5	5.97E-01	-0.048420926
WBGene00019757	0.617373419	8	3.15E-03	0.612295275
WBGene00019753	0.49499681	5	2.88E-02	0.470987315
WBGene00000071	0.114046715	18	2.50E-01	0.075009827
WBGene00006008	0	2	5.69E-01	0
WBGene00015768	-0.057084863	6	1.18E+00	0.138595368
WBGene00015767	-0.297362449	15	1.53E+02	-0.280459001
WBGene00003507	-0.642524228	16	6.00E+04	-0.46759986
WBGene00015766	-0.155006286	9	4.66E+00	-0.420046325
WBGene00015765	-0.081269517	6	1.41E+00	0.388798449
WBGene00015769	0.149595557	5	2.72E-01	0.778097074
WBGene00004104	-0.282622008	21	8.80E+02	-0.14943107
WBGene00017768	-0.148489478	20	4.40E+01	-0.526662266
WBGene00017769	0.349609042	12	1.43E-02	-0.20889984
WBGene00017767	0.126045633	5	3.17E-01	0.158005046
WBGene00017770	0.214771391	7	1.42E-01	-0.151504193
WBGene00017771	-0.008806305	3	6.41E-01	-0.013799303
WBGene00017772	-0.119144981	5	1.56E+00	-0.901231821
WBGene00017766	0.359328048	12	1.27E-02	0.639283342
WBGene00017765	0.365421476	12	1.17E-02	-0.006583563
WBGene00044539	-0.412717971	10	9.73E+01	-0.23866176
WBGene00019600	-0.534301064	30	2.42E+07	-0.697392805
WBGene00019601	-0.315734736	23	3.59E+03	-0.658419354
WBGene00202500	-0.015058031	2	6.02E-01	-0.019529493
WBGene00019603	-0.101739086	6	1.64E+00	0.165753561
WBGene00019599	-0.548044252	21	2.19E+05	-0.97624543
WBGene00019604	-0.003108911	7	8.60E-01	0.099069527
WBGene00044541	0	1	5.26E-01	-0.466343584
WBGene00044543	-0.27332649	1	1.17E+00	0.151606266
WBGene00303231	-0.942166953	3	5.19E+01	-1
WBGene00016891	-0.809209443	5	1.37E+02	-0.738693758
WBGene00016892	-0.720331725	9	1.38E+03	-0.762456294
WBGene00018424	-0.394002089	9	5.16E+01	-0.366907283

WBGene00018425	0.184596028	4	2.36E-01	0.430423327
WBGene00018426	0.334421167	23	1.53E-03	0.206308279
WBGene00018427	-0.173053869	11	8.88E+00	-0.500675685
WBGene00018428	-0.70443697	8	5.79E+02	-0.456285848
WBGene00018429	-0.942458729	6	8.18E+02	-0.636146293
WBGene00018430	-0.427484839	20	1.13E+04	-0.456962976
WBGene00018431	-0.063417752	2	7.25E-01	-0.079166792
WBGene00022576	-0.461545186	10	1.66E+02	-0.593493922
WBGene00022577	-0.158820415	6	2.51E+00	-0.181109062
WBGene00000893	-0.354231253	13	1.67E+02	-0.293968553
WBGene00045306	-0.14911957	4	1.53E+00	-0.209143002
WBGene00045305	-0.622282785	6	7.69E+01	-0.367057811
WBGene00002637	0.443037904	24	9.61E-05	0.82325652
WBGene00005297	-0.299768428	2	1.79E+00	-0.527270204
WBGene00000713	-0.061024967	8	1.58E+00	0.496036766
WBGene00017833	-0.447039341	4	8.12E+00	0.19287102
WBGene00017834	0.837666331	29	3.22E-10	0.426385027
WBGene00044544	0.126286824	5	3.16E-01	-0.050424705
WBGene00017836	-0.101653718	4	1.17E+00	-0.479792011
WBGene00017835	-0.794705969	8	1.33E+03	-1
WBGene00015360	-1	15	3.73E+07	-2
WBGene00044803	-0.756493508	4	4.60E+01	-0.808097359
WBGene00015424	-1	8	3.89E+04	-0.630244337
WBGene00015423	0.638373307	6	6.95E-03	0.677439213
WBGene00001698	0.389282096	11	1.13E-02	0.146287678
WBGene00005094	-0.021736814	4	7.50E-01	0.013474094
WBGene00015422	-0.154398855	9	4.63E+00	0.007676293
WBGene00005093	-0.827264308	7	7.90E+02	-0.137087547
WBGene00015421	-1	11	5.80E+05	-0.447201839
WBGene00015427	-1	5	6.31E+02	-0.427940449
WBGene00015425	-0.25936568	23	1.01E+03	-0.286046975
WBGene00015426	-0.276942635	6	6.00E+00	0.227377139
WBGene00015419	-0.118621103	5	1.55E+00	-0.218188051
WBGene00019032	0.062833583	8	5.09E-01	-0.205013086
WBGene00019763	-0.642748191	10	1.21E+03	-0.360011013
WBGene00019764	-0.328118966	10	3.85E+01	-0.550059455
WBGene000189957	-0.271302928	6	5.75E+00	-0.27046824
WBGene00019762	-0.113771506	16	1.08E+01	-0.205333688
WBGene00004206	-0.160930394	19	4.51E+01	-0.019901206
WBGene00019761	0.088458864	11	4.01E-01	0.234353959
WBGene00019765	-0.703197646	9	1.16E+03	-0.578503687
WBGene00003954	0.051236237	10	6.03E-01	-0.034201222
WBGene00015678	0.391312152	13	6.43E-03	0.354899144
WBGene00000069	0.585224296	18	4.94E-05	0.195037683
WBGene000000979	-0.37282311	4	5.36E+00	-0.060086393
WBGene00015679	0.071293955	5	4.52E-01	0.380144649
WBGene00001508	0.331389694	11	2.25E-02	0.484906523

WBGene00015677	-0.225613033	24	6.22E+02	-0.82418397
WBGene00001345	0.218285649	26	1.48E-02	0.137698834
WBGene00004502	0.335599453	7	5.21E-02	0.097897426
WBGene00000159	0.186825585	3	2.55E-01	-0.166017046
WBGene00017931	0.107088243	19	2.78E-01	0.093881427
WBGene00000980	0.177860318	32	2.52E-02	0.088470655
WBGene00017930	-0.133634979	17	1.81E+01	-0.961566196
WBGene00019804	0.136239278	8	2.60E-01	-1
WBGene00000534	0.465066872	10	6.47E-03	0.589200032
WBGene00019805	0.460142534	3	7.04E-02	0.875626998
WBGene00019806	0.184196806	8	1.67E-01	-0.086402696
WBGene00019807	-0.07600889	5	1.18E+00	0.137161465
WBGene00019808	-0.158610092	5	2.01E+00	0.520423892
WBGene00005098	-0.097933497	4	1.15E+00	-0.128950732
WBGene00021389	-0.417402302	18	3.75E+03	-0.51113852
WBGene00005236	-0.600395408	5	3.54E+01	-0.268849353
WBGene00021390	-0.052811646	9	1.67E+00	-0.140089396
WBGene00021392	0.026325107	4	5.73E-01	0.113901066
WBGene00021391	0.625626017	11	6.89E-04	0.285924977
WBGene00000802	0.384357599	11	1.20E-02	-0.357509706
WBGene00219449	-0.536186184	4	1.34E+01	-0.123462622
WBGene00017535	-0.027424399	5	8.58E-01	0
WBGene00017534	0.086009107	27	4.17E-01	-0.040044164
WBGene00017536	0.50310721	6	1.89E-02	0.540796679
WBGene00017537	-0.01229515	9	1.11E+00	-0.204809374
WBGene00017538	-0.579172248	9	3.33E+02	-0.057189784
WBGene00006436	0.342230595	237	8.28E-25	0.358744303
WBGene00001374	0.282747635	12	3.36E-02	0.008013576
WBGene00021066	-0.048539397	7	1.25E+00	-0.061008155
WBGene00004373	-0.211087183	41	4.07E+04	-0.203327611
WBGene00006239	0.073917763	7	4.54E-01	-0.351944357
WBGene00021068	0.42345079	18	9.23E-04	0.154326445
WBGene00019522	0.271779321	11	4.56E-02	-0.244591177
WBGene00019521	-0.352958714	15	3.60E+02	-0.077722759
WBGene00006437	0.346592324	52	1.40E-06	0.237197881
WBGene00019520	0.500366286	11	3.04E-03	0.22205131
WBGene00017965	-0.519298659	17	1.38E+04	-0.341976662
WBGene00017964	-1	12	2.00E+07	-1
WBGene00019668	-0.266572751	6	5.56E+00	-0.461142308
WBGene00019669	-0.564180851	3	8.75E+00	-0.459427494
WBGene00019667	-0.62691873	18	1.66E+05	-0.600943911
WBGene00005640	-1	4	2.05E+02	-0.788207548
WBGene00195164	-0.012615572	1	5.46E-01	-0.032740694
WBGene00023432	-0.375352006	5	8.21E+00	-0.973546989
WBGene00019666	-0.345445357	14	2.18E+02	-0.544561009
WBGene00020891	-0.079621033	31	5.73E+01	-0.219594363
WBGene00271821	-0.291749675	5	4.77E+00	-0.152179774

WBGene00020890	-0.388470726	4	5.85E+00	-0.19535138
WBGene00020889	-0.057789543	5	1.04E+00	-0.156031909
WBGene00020888	-0.087158941	4	1.08E+00	0.028878501
WBGene00020893	0.304338531	10	3.77E-02	0.485126079
WBGene00017430	0.393198244	25	2.35E-04	0.704789307
WBGene00017431	-0.227103015	7	5.49E+00	0.470417596
WBGene00017433	-0.155498574	10	5.81E+00	-0.199507384
WBGene00019016	-0.232895238	6	4.33E+00	-0.810894303
WBGene00019015	-0.186687723	10	8.18E+00	-0.078264835
WBGene00001581	-0.551202751	35	6.78E+08	-0.638153403
WBGene00019017	-0.475378854	34	3.29E+07	-0.704224505
WBGene00020270	-0.165925151	15	2.01E+01	-0.608250302
WBGene00020273	-0.000348177	31	5.44E+00	0.127098928
WBGene00020274	0.649766661	4	1.74E-02	0.320598371
WBGene00020275	0.362330716	5	6.83E-02	0.404785468
WBGene00000110	0.356959641	13	1.03E-02	0.177436736
WBGene00001513	0.56552171	14	3.90E-04	0.029753415
WBGene00020269	0.379837461	8	2.78E-02	0.706372108
WBGene00020268	0.416908176	13	4.53E-03	0.527955537
WBGene00020267	-0.846334207	8	2.13E+03	-0.453513273
WBGene00020276	-1	10	5.89E+06	-1
WBGene00020266	-0.511608689	15	4.16E+03	-0.342111952
WBGene00020265	-0.088688975	8	2.04E+00	-0.09041398
WBGene00020264	-0.374031328	13	2.19E+02	-0.147287743
WBGene00022646	-0.061102874	8	1.59E+00	0.232788534
WBGene00006815	0.379121887	67	5.76E-09	0.199875529
WBGene00002273	0.149385979	6	2.57E-01	0.064444955
WBGene00020911	-0.26606013	17	1.77E+02	-0.128451711
WBGene00020910	0.085918615	6	4.11E-01	-0.032038681
WBGene00020909	-0.03106705	9	1.34E+00	-0.057086231
WBGene00003385	0.06396892	5	4.74E-01	-0.130352785
WBGene00020912	0.271420042	8	7.51E-02	-0.170887178
WBGene00006723	-0.171291922	6	2.75E+00	-0.041612828
WBGene00006722	0.079379572	5	4.29E-01	0.425191765
WBGene00006721	-0.253969388	6	5.06E+00	0.049928492
WBGene00001073	-0.074224386	15	4.89E+00	0.193309741
WBGene00018491	0.496013833	10	4.61E-03	0.071566925
WBGene00018490	0.408074425	2	1.20E-01	0.090044752
WBGene00018489	-0.115868723	2	8.85E-01	0.038814027
WBGene000206358	-0.233307735	5	3.27E+00	0.266096292
WBGene00018488	-0.527736993	26	2.23E+06	-0.2503277
WBGene00018492	-0.559271643	4	1.52E+01	-0.135702681
WBGene00001089	0.007195555	47	1.36E+01	-0.269686701
WBGene00235332	0.556798516	1	1.03E-01	0.949396969
WBGene00019376	2	7	3.96E-09	2
WBGene00006665	0.100440581	25	2.93E-01	0.262521345
WBGene00235317	0.027817153	1	4.85E-01	0.012963653

WBGene00271815	-0.421162585	4	7.03E+00	-0.095883574
WBGene00005005	-0.56267848	3	8.69E+00	-0.106841101
WBGene00235118	0.879414461	4	4.82E-03	0.511203916
WBGene00005004	0.493560139	5	2.91E-02	0.53800226
WBGene00019373	-0.654537424	12	5.17E+03	-0.339943269
WBGene00001506	-0.279007068	9	1.62E+01	-0.446980448
WBGene00044545	-0.552161581	5	2.59E+01	-0.156119623
WBGene00017151	-0.29849544	6	7.03E+00	-0.066969704
WBGene00022845	-0.100205426	8	2.27E+00	-0.039112438
WBGene00022843	-0.051686431	8	1.45E+00	0.047594622
WBGene00001829	-0.394023727	31	6.52E+05	-0.461736523
WBGene00022847	-0.043658776	9	1.52E+00	-0.18053777
WBGene00022848	-0.110201282	14	7.15E+00	-0.201793183
WBGene00002148	0.146354171	17	1.47E-01	0.375723053
WBGene00000784	0.032972342	5	5.79E-01	-0.171592816
WBGene00018412	-0.183772876	12	1.28E+01	-0.819999818
WBGene00004092	0.173136978	8	1.85E-01	0.041813666
WBGene00004740	-0.397098712	33	1.69E+06	-0.642784708
WBGene00020424	0.096087054	3	3.91E-01	0.128048426
WBGene00044779	-0.507954542	4	1.14E+01	-0.502495584
WBGene00020425	0.45112312	8	1.45E-02	0.299549662
WBGene00004897	0.599100753	6	9.29E-03	0.218801087
WBGene00004062	-0.439387953	10	1.30E+02	-0.172813094
WBGene00006224	-0.64206452	6	8.90E+01	-0.227646249
WBGene00019654	-0.623318952	9	5.19E+02	-0.268394115
WBGene00019653	-0.003858625	4	6.79E-01	-0.024243836
WBGene00019652	-0.416088491	11	1.58E+02	-0.381731869
WBGene00001210	-0.09994441	10	3.16E+00	-0.145418134
WBGene00019655	0.147079361	8	2.35E-01	0.350215553
WBGene00003473	0.18042058	1	3.11E-01	-0.109926029
WBGene00175027	0.703528992	7	2.48E-03	0.946622408
WBGene00020947	0.255919767	6	1.17E-01	0.552953364
WBGene00020948	0.11589146	11	2.89E-01	-0.050856968
WBGene00020949	0.061544903	7	5.03E-01	0.308758656
WBGene00020950	-0.017431389	9	1.17E+00	-0.032500589
WBGene00020951	0.063603023	6	4.85E-01	0.405194329
WBGene00005187	-0.030523986	3	7.10E-01	-0.060262735
WBGene00022624	-0.295410126	5	4.89E+00	0.130720063
WBGene00022623	0.343635188	11	1.95E-02	0.214357088
WBGene00001718	-0.194081366	5	2.53E+00	0.028668347
WBGene00001717	-0.15803553	3	1.29E+00	-0.087369756
WBGene00020806	-0.179465056	11	9.58E+00	-0.062872615
WBGene00000936	0.368676591	9	2.39E-02	0.015647821
WBGene00020807	-0.005667075	10	1.13E+00	-0.262766261
WBGene00000244	-0.14976704	14	1.27E+01	-0.648308449
WBGene00020808	1	12	1.53E-06	0.55438636
WBGene00020805	0.395740427	3	9.54E-02	-0.975399123

WBGene00005253	0.139829394	6	2.76E-01	0.305603477
WBGene00195226	0.137827265	2	3.36E-01	0.168567466
WBGene00005251	0.510488136	5	2.61E-02	0.115361146
WBGene00194910	0.134900799	8	2.63E-01	-0.148039771
WBGene00004984	0.3276342	8	4.49E-02	-0.449976619
WBGene00004975	0.192849233	8	1.54E-01	0.189401755
WBGene00043952	-0.079253402	2	7.70E-01	0.613676959
WBGene00022603	0.510932925	18	1.89E-04	0.493365865
WBGene00022601	-0.20767486	5	2.76E+00	0.008392871
WBGene00022606	-0.048471294	3	7.72E-01	0.423534712
WBGene00022604	-0.079785804	5	1.20E+00	-0.098524255
WBGene00022605	-0.337760401	5	6.43E+00	0.022842454
WBGene00019262	-0.131997958	3	1.14E+00	-0.08578853
WBGene00194821	0.014535048	4	6.12E-01	0.199145445
WBGene00020523	-0.898496915	5	2.45E+02	-1
WBGene00020524	0	6	7.76E-01	-0.0094942
WBGene00020520	-0.112830508	9	3.05E+00	-0.018434283
WBGene00020525	-0.208603384	3	1.64E+00	-0.164391088
WBGene00000714	-0.522174832	6	3.67E+01	-0.525864352
WBGene00000715	-0.456847408	10	1.58E+02	-0.266126248
WBGene00020526	-0.082057986	9	2.23E+00	-0.134630397
WBGene00000716	0.080803199	7	4.29E-01	0.370830166
WBGene00020527	-0.02343385	4	7.57E-01	-0.100280396
WBGene00020517	0.079230204	3	4.23E-01	-0.010775042
WBGene00020528	-0.229200082	21	2.90E+02	-0.249326539
WBGene00020516	-0.25623533	13	4.39E+01	-0.291419473
WBGene00001672	-0.371681154	7	1.82E+01	-0.209196592
WBGene00020586	-0.000419373	7	8.41E-01	0.160157223
WBGene00006803	1	55	2.68E-27	0.691122046
WBGene00019643	-0.021911211	4	7.51E-01	0.334747395
WBGene00019642	-0.530502818	8	1.18E+02	-0.563783928
WBGene00003844	-0.713284749	14	4.56E+04	-0.597497417
WBGene00006801	0.69887527	116	3.51E-29	0.633617928
WBGene00021963	0.132619889	7	2.80E-01	-0.408642454
WBGene000202501	-0.030238731	2	6.38E-01	-0.008509131
WBGene00021964	-0.423120431	7	2.78E+01	-0.395459323
WBGene00021961	-0.222647623	3	1.75E+00	-0.024320309
WBGene00235311	0	4	6.64E-01	-0.081121381
WBGene00304201	0	4	6.64E-01	-0.016550286
WBGene00005188	-0.02084454	6	9.05E-01	-0.236162391
WBGene00003165	-0.260477646	37	7.93E+04	-0.237687769
WBGene00004229	-0.516834878	11	5.22E+02	-0.637072189
WBGene00005950	-0.072560845	3	8.65E-01	-0.081782809
WBGene00005907	-0.008002661	1	5.39E-01	0
WBGene00020333	-0.31528409	7	1.14E+01	-0.245461699
WBGene00016364	-0.16618536	10	6.53E+00	-0.102662635
WBGene00016368	-0.143457227	5	1.82E+00	-0.060646015

WBGene00016365	-0.451855695	11	2.42E+02	-0.662771356
WBGene00016366	-0.091956684	10	2.90E+00	-0.605938965
WBGene00016367	-0.519059865	6	3.59E+01	-0.400223206
WBGene00003697	-0.026466826	2	6.29E-01	0.063672374
WBGene00003632	-0.314519212	9	2.32E+01	-0.238686447
WBGene00016363	-0.261538381	5	3.92E+00	-0.457734134
WBGene00016362	-0.502311287	4	1.11E+01	-0.77208012
WBGene00016361	-1	3	2.53E+02	-1
WBGene00016360	-0.299827066	7	1.00E+01	-0.342762312
WBGene00005874	-0.014344798	3	6.58E-01	-0.00268491
WBGene00016369	-0.056131061	6	1.17E+00	-0.005590985
WBGene00017615	-0.121380769	2	9.04E-01	-0.032084938
WBGene00017616	-0.8718927	17	5.96E+06	-0.700643825
WBGene00017618	-0.185643304	5	2.40E+00	-0.193303958
WBGene00006666	-0.244160196	26	1.73E+03	-0.049580437
WBGene00017614	0.223476441	14	5.61E-02	0.216067027
WBGene00017619	0.023046289	2	5.21E-01	0.333016113
WBGene00017620	-0.402952362	10	8.74E+01	-0.413840244
WBGene00017613	-0.700425467	3	1.66E+01	-0.153908365
WBGene00017621	0.037102757	3	5.16E-01	-0.78163014
WBGene00021958	0	1	5.26E-01	0
WBGene00021957	0.174553768	2	2.92E-01	-0.05133224
WBGene00003164	0.002466105	2	5.63E-01	-0.000968622
WBGene00021959	0.038038976	3	5.14E-01	0.002286037
WBGene00021956	0.233218792	9	9.36E-02	-0.001208896
WBGene00021960	0.771381041	5	4.79E-03	0.129982803
WBGene00044612	0.128719954	6	3.00E-01	0.043741034
WBGene00017850	-0.011798141	4	7.10E-01	-0.019656316
WBGene00003786	-0.310634998	24	4.57E+03	-0.374337845
WBGene00007029	0.019108885	15	1.16E+00	0.006985191
WBGene00020908	0.074531623	17	5.05E-01	-0.2917672
WBGene00044699	0.243232928	7	1.12E-01	-0.125353952
WBGene00003725	-0.033956889	11	1.71E+00	-0.15947517
WBGene00003849	0.60661186	19	2.11E-05	0.503279558
WBGene00005924	-0.044722032	4	8.53E-01	-0.191514168
WBGene00005925	-0.132999991	10	4.54E+00	-0.154110109
WBGene00020141	-0.189224479	17	4.72E+01	-0.438889568
WBGene00044546	-0.604064196	3	1.06E+01	-0.664992238
WBGene00005927	-0.056900222	6	1.18E+00	-0.517674047
WBGene00017330	-0.317234457	5	5.63E+00	-0.293851331
WBGene00271437	0	2	5.69E-01	-0.00349501
WBGene00006163	-0.277296118	7	8.32E+00	-0.250295349
WBGene00017331	-1	10	1.05E+06	-0.925282194
WBGene00017332	-0.75715686	16	3.90E+05	-0.722686948
WBGene00017333	-0.803315825	7	6.48E+02	-1
WBGene00017334	-0.7031364	10	2.35E+03	-0.697685382
WBGene00001399	-0.698547617	7	2.72E+02	-0.413649185

WBGene00017335	-0.182621164	7	3.80E+00	0.114399113
WBGene00017329	-1	7	1.56E+04	-0.507941882
WBGene00006237	-1	8	5.32E+05	-1
WBGene00017336	-0.853895959	11	2.83E+04	-0.218339445
WBGene00005304	-0.05357341	4	8.97E-01	-0.457222294
WBGene00017315	-0.086225447	7	1.71E+00	0.029641018
WBGene00017314	0.819212457	15	5.08E-06	0.488133216
WBGene00017313	0.111143127	21	2.46E-01	0.094147785
WBGene00017312	-0.673562783	11	3.34E+03	-0.872527767
WBGene00017316	-0.109583631	18	1.43E+01	0.217625896
WBGene00017317	0.139984158	6	2.76E-01	0.097213864
WBGene00017311	0.289685599	5	1.09E-01	-0.006644176
WBGene00017310	-0.162175709	17	2.96E+01	-0.394963532
WBGene00015743	0.837744022	38	7.69E-13	0.788201353
WBGene00015744	0.060805348	4	4.72E-01	-0.041308264
WBGene00015745	0.452864165	15	1.44E-03	0.827881608
WBGene00303039	0.172756354	1	3.18E-01	0.04437384
WBGene00015742	0.262227791	4	1.53E-01	0.065466249
WBGene00015746	0.094864719	6	3.85E-01	0.012508273
WBGene00015741	0.255138542	7	1.01E-01	-0.442494583
WBGene00001428	0.119247153	6	3.21E-01	-0.034741278
WBGene00001563	0.245887087	12	5.38E-02	0.172405104
WBGene00015461	0.59590755	5	1.50E-02	-0.216393915
WBGene00015462	0.42482933	9	1.36E-02	-0.314687124
WBGene00015463	0.312844661	11	2.80E-02	-0.05665992
WBGene00015466	-0.198183158	11	1.20E+01	-0.215925232
WBGene00015460	0.052732492	7	5.42E-01	-0.098096039
WBGene00015464	-0.107430342	14	6.87E+00	-0.320360872
WBGene00015465	-0.068131954	9	1.94E+00	0.292164902
WBGene00044547	2	2	4.54E-04	2
WBGene00015725	-0.434699292	7	3.06E+01	-0.325477276
WBGene00015724	-0.263434903	7	7.42E+00	-0.330251975
WBGene00015723	-0.378588543	11	1.01E+02	-0.494644344
WBGene00015726	-0.085322471	3	9.19E-01	-0.012613743
WBGene00015722	-0.017666293	5	8.05E-01	-0.062240311
WBGene00015721	-0.23249078	4	2.44E+00	-0.30051533
WBGene00015720	-0.077552025	7	1.59E+00	0.002631246
WBGene00015718	-0.316410415	11	4.86E+01	-0.225098954
WBGene00017231	-0.319780158	10	3.52E+01	-0.319826302
WBGene00005617	-0.094841179	5	1.33E+00	-0.160806893
WBGene00017230	-0.553033246	12	1.42E+03	-0.822022366
WBGene00017229	0	3	6.15E-01	0
WBGene00017228	-0.087904353	4	1.09E+00	0
WBGene00005897	-0.017723789	1	5.54E-01	-0.00290996
WBGene00017233	-0.203254505	22	2.19E+02	-0.292356351
WBGene00235324	-1	6	5.65E+03	-0.914088578
WBGene00005983	-0.07767172	5	1.19E+00	-0.122991427

WBGene00017365	-0.087263761	3	9.27E-01	-0.006977026
WBGene00017364	-0.104761129	7	1.99E+00	-0.539209388
WBGene00017363	0.821001023	3	1.29E-02	0.246423474
WBGene00017362	0.117262662	1	3.74E-01	0.197316452
WBGene00017366	-0.350317254	5	6.98E+00	-0.785318083
WBGene00005402	-0.615853012	5	3.92E+01	-0.562120307
WBGene00017367	-0.333255244	3	2.95E+00	0.044744854
WBGene00015396	-0.033219846	4	8.00E-01	0.000339305
WBGene00005450	-0.098187741	3	9.76E-01	0.012749523
WBGene00015395	-0.374716206	5	8.18E+00	-0.423213443
WBGene00015397	-0.017236075	3	6.67E-01	0.109195336
WBGene00005439	-0.16096089	5	2.04E+00	0.060497498
WBGene00005480	-0.017562846	2	6.08E-01	0.010286862
WBGene00015398	-1	5	5.72E+02	-0.98008503
WBGene00235116	0	1	5.26E-01	-0.011191933
WBGene00015394	0	3	6.15E-01	0
WBGene00015399	-0.414466289	5	1.06E+01	-0.546094922
WBGene00015400	0.05010469	5	5.18E-01	0.172238417
WBGene00015393	-0.216907685	4	2.24E+00	-0.306638389
WBGene00005602	-0.050032574	3	7.78E-01	0.241536652
WBGene00005947	-0.020100617	2	6.14E-01	0
WBGene00015401	-0.167797352	5	2.13E+00	-0.079888666
WBGene00015402	-0.614929484	4	2.08E+01	-0.302901447
WBGene00005647	-0.073001622	8	1.77E+00	-0.294739243
WBGene00220257	0.035879617	3	5.19E-01	-0.010226554
WBGene00015361	-0.45652851	9	9.68E+01	-0.227576671
WBGene00015362	-0.016487448	2	6.06E-01	-0.035784271
WBGene00005900	-0.000734081	1	5.28E-01	-0.007132178
WBGene00001789	-1	3	1.12E+02	-0.994976456
WBGene00044548	-0.576542235	2	5.13E+00	-0.243266615
WBGene00005951	-0.20784721	5	2.77E+00	0.262480874
WBGene00005601	-0.344994354	5	6.74E+00	-0.62817761
WBGene00020055	-0.509533126	4	1.15E+01	-0.527935627
WBGene00020054	-0.148780366	4	1.53E+00	0.044464541
WBGene00006106	-0.461226477	6	2.34E+01	-0.069767478
WBGene00017567	-0.569879139	2	5.00E+00	-0.018366237
WBGene00045275	-0.058974613	2	7.12E-01	-0.181938196
WBGene00045276	-1	3	1.36E+02	-0.390088282
WBGene00005814	-0.028178523	7	1.06E+00	-0.070810295
WBGene00017564	-0.02908869	4	7.82E-01	-0.137365463
WBGene00017566	-0.003254774	2	5.76E-01	-0.029301737
WBGene00005815	-0.034886724	6	1.00E+00	-0.245217403
WBGene00005816	-0.102303658	6	1.65E+00	0.012921171
WBGene00005818	-0.043304196	3	7.54E-01	0.054464993
WBGene00017565	0.287498372	7	7.75E-02	0.727257912
WBGene00017789	0.269006726	6	1.06E-01	0.514264824
WBGene00017790	0.18042058	1	3.11E-01	0.305550612

WBGene00017792	0.472312859	5	3.34E-02	0.179032308
WBGene00017788	-0.010975227	7	9.18E-01	-0.074375799
WBGene00017787	-3.04E-05	2	5.69E-01	-1.60E-05
WBGene00017786	-0.20407101	4	2.08E+00	-0.078405785
WBGene00017785	-0.213386737	7	4.90E+00	0.040220631
WBGene00017784	-0.617686412	5	3.96E+01	-0.211974524
WBGene00017791	-0.496960262	10	2.45E+02	-0.256363293
WBGene00017783	-0.135709023	6	2.11E+00	0.032856739
WBGene00005313	-0.209859299	3	1.65E+00	-0.052711785
WBGene00005310	-0.122721859	4	1.32E+00	0.078532853
WBGene00017782	-0.250242341	22	6.07E+02	0.041092669
WBGene00006094	-0.35668776	4	4.90E+00	-0.266368583
WBGene00005342	-0.629746921	4	2.26E+01	-0.343620008
WBGene00006231	-1	4	3.54E+02	-0.860889908
WBGene00015963	-0.253002218	4	2.74E+00	-0.181640227
WBGene00015962	0.008261365	3	5.91E-01	-0.122044877
WBGene00015961	-0.098246567	2	8.27E-01	-0.058358327
WBGene00015960	0	5	7.18E-01	0.08432154
WBGene00015959	-0.061533256	4	9.37E-01	0
WBGene00015958	0.043612563	5	5.41E-01	0.098704421
WBGene00005300	-0.644195594	6	9.04E+01	-0.676689279
WBGene00005437	0.03630429	4	5.42E-01	0.064122946
WBGene00006097	1	5	4.36E-04	2
WBGene00016927	-0.018291786	6	8.88E-01	0.8090763
WBGene00016926	-0.074572462	7	1.55E+00	0.234448979
WBGene00016925	-0.289251553	9	1.80E+01	-0.335365703
WBGene00016928	-0.318948309	8	1.69E+01	-0.32004397
WBGene00044113	-0.175502055	2	1.11E+00	0.042004673
WBGene00016924	-0.089334012	4	1.10E+00	-0.417690111
WBGene00271796	-0.235840459	2	1.40E+00	-0.194835413
WBGene00235093	-0.0476509	1	6.05E-01	-0.035719246
WBGene00235092	0.286224155	5	1.12E-01	-0.058958186
WBGene00016923	0.075205995	1	4.23E-01	1
WBGene00016922	-0.125523799	3	1.11E+00	0.210674285
WBGene00016921	-0.285367418	5	4.58E+00	-0.515828616
WBGene00016929	-0.021771935	3	6.81E-01	-0.003709394
WBGene00005474	-0.120800749	3	1.09E+00	0.109063397
WBGene00003731	-0.382817565	11	1.07E+02	-0.419716806
WBGene00235336	0.00464583	1	5.19E-01	-0.017689187
WBGene00001500	0.449553282	7	2.03E-02	0.470543397
WBGene00017599	0.895630572	2	1.87E-02	0.083860853
WBGene00017600	1	4	2.45E-04	0.991247845
WBGene00017601	-0.273530818	6	5.85E+00	0.03466176
WBGene00017598	-0.391295582	3	3.88E+00	-0.183596515
WBGene00017603	-0.123452138	17	1.52E+01	-0.067760974
WBGene00271807	-0.026542264	1	5.69E-01	0.034164457
WBGene00017605	0.453556151	15	1.43E-03	0.288853335

WBGene00017608	0.029660517	41	3.72E+00	-0.372807111
WBGene00017606	0.152208934	23	9.34E-02	-0.470135004
WBGene00017607	-0.373642106	21	5.83E+03	-0.222547116
WBGene00016816	-0.167971438	22	1.02E+02	0.048993413
WBGene00016817	0.328500259	8	4.45E-02	0.306740185
WBGene00016818	-0.17708033	7	3.63E+00	-0.07184865
WBGene00016820	-0.081198309	2	7.75E-01	0
WBGene00016821	-1	5	8.99E+02	-0.644655024
WBGene00016822	-0.269059522	4	3.00E+00	-0.443651094
WBGene00044738	-0.133312238	14	1.00E+01	-0.293417002
WBGene00016815	-0.029360931	4	7.83E-01	-0.084222299
WBGene00016813	-0.057392658	5	1.04E+00	-0.058403146
WBGene00044549	-0.007728622	5	7.55E-01	-0.005507302
WBGene00044550	-0.03489066	5	9.00E-01	-0.01307575
WBGene00016823	-0.283878328	6	6.31E+00	-0.146412546
WBGene00016824	-0.291270514	14	9.92E+01	-0.546297159
WBGene00017201	-0.084271951	4	1.06E+00	-0.067721959
WBGene00017200	-0.002132977	3	6.21E-01	-0.002090621
WBGene00005108	-0.71184244	12	1.07E+04	-0.955280121
WBGene00005103	-0.127716482	4	1.36E+00	-0.216915376
WBGene00005109	-0.466884065	7	4.00E+01	-0.506246018
WBGene00005107	0	1	5.26E-01	-0.004758701
WBGene00017199	-0.08964245	1	6.84E-01	-0.116697591
WBGene00017203	-0.534318168	2	4.37E+00	-0.768809408
WBGene00017204	-0.464841845	5	1.47E+01	-0.261492381
WBGene00006112	-0.051452908	3	7.83E-01	-0.072640168
WBGene00017205	-0.26442337	6	5.47E+00	-0.101658366
WBGene00005441	-0.130121748	4	1.38E+00	0.027072611
WBGene00005411	0	3	6.15E-01	0.127631441
WBGene00015708	-2	3	5.62E+03	-2
WBGene00015707	-0.277086683	4	3.14E+00	-0.531437136
WBGene00015706	-0.115212898	4	1.27E+00	-0.044819208
WBGene00015709	-0.42676114	4	7.25E+00	-0.055401292
WBGene00015712	-0.02555917	4	7.66E-01	-0.004554547
WBGene00003684	-0.82852007	10	9.27E+03	-0.675423148
WBGene00015705	-0.060426948	8	1.58E+00	-0.01171729
WBGene00015710	-0.201963168	2	1.23E+00	0
WBGene00015711	-0.245283198	5	3.53E+00	-0.134891868
WBGene00022654	-0.693221323	12	8.47E+03	-0.560575313
WBGene00022655	0.069991483	4	4.49E-01	0.094181564
WBGene00005750	-0.060538198	7	1.38E+00	-0.099395007
WBGene00194895	-0.18675345	4	1.89E+00	-0.339309543
WBGene00235114	-1	4	1.27E+03	-1
WBGene00022653	-1	3	2.10E+02	-1
WBGene00235113	-1	4	3.35E+02	-0.8595618
WBGene00022656	-0.729640034	4	3.95E+01	-0.407770778
WBGene00271707	-0.005907894	1	5.36E-01	-0.002696421

WBGene00022657	-0.614837056	5	3.89E+01	-0.0468101
WBGene00044551	-0.379062396	8	2.93E+01	-0.080853526
WBGene00022410	0.559877219	6	1.24E-02	-0.433115072
WBGene00044342	0.642667501	4	1.82E-02	0.344515843
WBGene00020246	-0.168618005	4	1.71E+00	0.165946285
WBGene00005661	-0.15200731	5	1.93E+00	-0.301852485
WBGene00005660	-0.067378692	6	1.28E+00	-0.244171568
WBGene00020245	0.226290324	11	7.82E-02	0.122639361
WBGene00020247	0.237930574	8	1.02E-01	-0.171048786
WBGene00016150	0.300201016	5	1.02E-01	0.085790661
WBGene00016149	0.045729389	3	4.96E-01	0.064390002
WBGene00001719	0.915592736	4	3.94E-03	1
WBGene00004453	1	3	4.04E-03	0.950004804
WBGene00004499	1	6	2.91E-04	0.506350578
WBGene00016148	0.980591016	10	2.28E-05	0.754301085
WBGene00016147	-0.360348739	8	2.47E+01	-0.368673767
WBGene00016146	-0.189493339	8	5.15E+00	-0.134978551
WBGene00001464	-0.855078992	4	7.98E+01	-0.477032209
WBGene00194921	-0.075985158	9	2.10E+00	-0.413817305
WBGene00022812	0.133493258	10	2.45E-01	0.142778554
WBGene00002078	0.208377166	43	3.00E-03	0.171325749
WBGene00022813	-0.014588251	4	7.21E-01	0.485211897
WBGene00022814	-0.111610635	10	3.59E+00	-0.6168186
WBGene00045277	0.536874024	4	3.28E-02	0.659400609
WBGene00002256	-0.416325005	5	1.07E+01	-0.490871909
WBGene00003242	0.143506963	53	2.49E-02	0.050412534
WBGene00016499	-0.489391804	6	2.88E+01	-0.482773736
WBGene00016505	-0.296698127	7	9.77E+00	0.053592116
WBGene00016504	-0.816426586	4	6.43E+01	-1
WBGene00001697	-0.036092638	2	6.53E-01	0.108545864
WBGene00016500	-0.31910234	16	3.07E+02	-0.455095412
WBGene00016501	0.001105449	13	1.31E+00	-0.381316319
WBGene00303000	0.155225557	7	2.32E-01	0.219280048
WBGene00016496	0.343410816	7	4.88E-02	0.179913445
WBGene00016495	0.206237594	13	8.02E-02	-0.145715634
WBGene00235308	-0.320640782	3	2.78E+00	-0.03730344
WBGene00016502	-0.260551898	4	2.86E+00	-0.192396302
WBGene00016503	-0.422385489	5	1.11E+01	-0.492462583
WBGene00077712	0.020216119	8	7.52E-01	0.075654102
WBGene00018219	-0.249736907	4	2.69E+00	0.319240996
WBGene00018218	0.390764546	4	7.44E-02	0.267215987
WBGene00018217	-0.010460729	7	9.14E-01	-0.022727325
WBGene00018216	0.42217851	9	1.40E-02	0.910175442
WBGene00018221	0.189646964	4	2.30E-01	0.847466278
WBGene00018222	0.456577	13	2.64E-03	0.26526926
WBGene00022406	-0.004858574	6	8.04E-01	-0.123042227
WBGene00022405	-0.655740593	5	5.07E+01	-0.526882969

WBGene00022404	-0.095003542	4	1.13E+00	-0.194727703
WBGene00003575	-0.093349612	9	2.50E+00	-0.064887304
WBGene00022408	-0.428025192	8	4.59E+01	0.422656792
WBGene00022409	-0.59989733	11	1.40E+03	-0.369229055
WBGene00022403	0.000523231	7	8.34E-01	-0.218789593
WBGene00017822	-0.242265521	2	1.43E+00	0.015268719
WBGene00045393	-0.177374946	7	3.64E+00	0.349826227
WBGene00045392	-0.038197188	1	5.89E-01	0.029381739
WBGene00017823	-0.222041306	5	3.03E+00	-0.009840442
WBGene00017824	-0.243196071	3	1.93E+00	-0.035059813
WBGene00017819	-0.367068043	13	1.99E+02	0.025864265
WBGene00000488	0.329766132	19	4.05E-03	0.41341943
WBGene00002632	0.492364663	17	3.81E-04	0.484622499
WBGene00017818	0.854878012	8	3.56E-04	1
WBGene00022394	0.406459734	4	6.82E-02	0.486448786
WBGene00022393	-0.176839169	7	3.62E+00	0.035141036
WBGene00022392	-0.032685111	5	8.87E-01	-0.209226405
WBGene00022395	-0.124616756	5	1.61E+00	0.006794303
WBGene00022397	0.078955926	11	4.48E-01	0.049820447
WBGene00022396	0.050939919	24	9.48E-01	0.007434835
WBGene00044552	-0.046137519	6	1.09E+00	0.385636602
WBGene00022398	0.52417812	8	7.40E-03	-0.277473689
WBGene00022399	-0.146919283	56	7.80E+04	-0.046095837
WBGene00022402	-0.060997402	5	1.07E+00	-0.063735016
WBGene00022400	-0.03574829	4	8.11E-01	0.345017524
WBGene00022401	0.333782329	4	1.02E-01	0.488000901
WBGene00018398	-0.542777111	19	6.37E+04	-0.671835289
WBGene00001152	0.638340411	2	4.98E-02	0.807033092
WBGene00018399	0.122259161	4	3.35E-01	0.017157004
WBGene00018400	-0.315108329	5	5.55E+00	-0.208646674
WBGene00003865	-0.319584532	7	1.18E+01	0.067708463
WBGene00006935	0.129277071	12	2.38E-01	0.036881669
WBGene00022629	0.016416334	12	1.00E+00	0.088409325
WBGene00194928	0.056824418	2	4.58E-01	0.158422274
WBGene00022628	-0.454114261	11	2.48E+02	-0.377437182
WBGene00000620	-0.006039709	3	6.32E-01	-0.122982696
WBGene00006060	0	3	6.15E-01	-0.002706619
WBGene00022627	-0.500042945	11	4.28E+02	-0.374150293
WBGene00006187	-0.005684744	3	6.31E-01	-0.016308418
WBGene00006186	0	2	5.69E-01	-0.102125702
WBGene00006188	-0.285582994	9	1.73E+01	-0.013315468
WBGene00006190	-0.059014691	5	1.05E+00	-0.027666093
WBGene00006191	-0.066550064	4	9.64E-01	0.073754085
WBGene00015660	-0.646115919	17	1.22E+05	-0.433232559
WBGene00006180	-0.240026504	5	3.41E+00	-0.147086584
WBGene00015661	-1	7	3.41E+04	-0.94558441
WBGene00006179	-0.619936815	8	2.67E+02	-0.219302595

WBGene00006178	-0.016782942	3	6.65E-01	-0.016627522
WBGene00006193	-0.194913991	5	2.54E+00	0.00412995
WBGene00006192	-0.502076995	5	1.87E+01	0.05206727
WBGene00019066	-0.139089504	7	2.65E+00	-0.555501635
WBGene00006149	-0.818741824	13	9.41E+04	-0.549276089
WBGene00019065	-0.68737307	3	1.56E+01	-0.386541869
WBGene00019064	-0.474342506	50	9.64E+10	-0.594400227
WBGene00017020	-0.424531925	8	4.45E+01	-0.258804272
WBGene00017019	-1	13	6.31E+07	-0.653679549
WBGene00017018	-0.07987597	12	3.42E+00	-0.054049635
WBGene00005006	0.351377607	14	8.75E-03	0.685929594
WBGene00017016	0.341400342	6	6.23E-02	0.061336094
WBGene00017017	0.277897922	4	1.40E-01	0.365817534
WBGene00017015	-0.172754066	13	1.41E+01	-0.301840859
WBGene00303233	0.051497417	7	5.47E-01	0.057897658
WBGene00006309	-0.688970226	13	1.60E+04	-0.771460304
WBGene00017636	-0.010126053	5	7.66E-01	-0.103405812
WBGene00017635	0.084178314	11	4.21E-01	0.232868189
WBGene00017637	-0.222291518	14	3.64E+01	-0.117475749
WBGene00017638	-0.277494626	3	2.27E+00	-0.095083125
WBGene00005648	0.248471327	18	2.19E-02	0.225925835
WBGene00005649	-0.222400969	5	3.04E+00	-0.021050646
WBGene00017634	-0.295757385	7	9.70E+00	-0.091798083
WBGene00303421	0.087300557	2	4.08E-01	0.255629107
WBGene00043069	0.036964981	2	4.94E-01	-0.038288454
WBGene00017633	0.07491427	8	4.56E-01	-0.206217966
WBGene00017639	0.178423206	17	8.45E-02	0.557297479
WBGene00017640	0.283125732	13	2.81E-02	-0.014462157
WBGene00019478	-0.086872352	3	9.25E-01	0.2109286
WBGene00019477	-0.340249533	11	6.44E+01	-0.232013768
WBGene00019476	0.804372163	2	2.64E-02	0.809815313
WBGene00019479	0.547369962	15	3.36E-04	1
WBGene00019480	-0.061615056	7	1.40E+00	0.07209529
WBGene00019481	0.37231029	9	2.31E-02	0.00862269
WBGene00000098	0.074732581	7	4.51E-01	0.338091325
WBGene00003937	0.024713368	5	6.11E-01	0.301886263
WBGene00019482	0.081821187	3	4.18E-01	0.835735227
WBGene00004395	1	37	1.01E-18	1
WBGene00015858	0.084655698	6	4.15E-01	0.15064618
WBGene00015859	0.183666276	6	2.00E-01	-0.047344296
WBGene00015860	0.046547867	12	6.82E-01	0.562945407
WBGene00015861	0.700156584	9	8.52E-04	1
WBGene00015857	-0.168516047	10	6.70E+00	0.088923656
WBGene00015863	-0.19964425	6	3.39E+00	0.109829434
WBGene00015864	-0.221938343	2	1.33E+00	0.163986859
WBGene00017679	-0.221866707	5	3.03E+00	0.093651054
WBGene00000219	-0.583217335	8	1.91E+02	-0.232492706

WBGene00017678	-0.218763855	9	8.85E+00	-0.204810773
WBGene00000218	-0.582367164	10	6.24E+02	-0.270463639
WBGene00006184	-0.558727752	4	1.52E+01	-0.414845729
WBGene00006183	-0.236957933	15	6.02E+01	-0.64804226
WBGene00017681	-0.043334618	7	1.20E+00	0.228597506
WBGene00005190	-0.431633076	3	4.69E+00	-0.253561872
WBGene00020939	-1	6	7.36E+03	-0.809935225
WBGene00020940	-0.218020406	5	2.96E+00	0.542229726
WBGene00020941	-0.007268056	2	5.85E-01	0.020178496
WBGene00020942	0.154512094	4	2.80E-01	0.217530864
WBGene00004766	0.006557196	3	5.96E-01	0.185985339
WBGene00020946	-0.140829323	4	1.46E+00	-0.243791022
WBGene00020943	-0.065029974	3	8.35E-01	-0.127418172
WBGene00020938	-0.065966383	6	1.26E+00	-0.029260239
WBGene00044356	-0.926549676	2	1.95E+01	-0.548385331
WBGene00020945	-0.089869267	8	2.06E+00	0.025330772
WBGene00006582	0.116792123	10	2.94E-01	0.290213658
WBGene00235325	-0.732653671	6	1.74E+02	-0.599933344
WBGene00015592	0.011934519	17	1.48E+00	0.175010186
WBGene00018180	-0.072429781	4	9.96E-01	0.060260884
WBGene00003395	0.21201546	12	8.28E-02	0.6287157
WBGene00018181	0.429413072	5	4.42E-02	0.424159809
WBGene00018179	-0.006629314	4	6.89E-01	0.053728585
WBGene00001664	-0.083543511	8	1.95E+00	-0.019293952
WBGene00018182	-0.001639777	7	8.50E-01	-0.238484293
WBGene00018178	-0.431385346	7	2.98E+01	-0.696500358
WBGene00018694	-0.038251946	12	2.01E+00	0.115271386
WBGene00044696	-0.148985242	2	1.00E+00	-0.349430612
WBGene00002021	-0.437573202	7	3.14E+01	-0.604315486
WBGene00001534	-0.570089181	18	5.95E+04	-0.261498961
WBGene00018696	-0.116810772	12	5.47E+00	-0.262869242
WBGene00018693	-0.252735217	9	1.25E+01	0.318377593
WBGene00018697	-0.20755535	9	7.90E+00	0.093662692
WBGene00018692	-0.746942386	6	1.93E+02	-0.156591012
WBGene00018698	-0.161625856	13	1.21E+01	-0.257644469
WBGene00004078	0.186571167	10	1.37E-01	0.213786656
WBGene00018700	0.427271189	77	1.40E-11	0.535207435
WBGene00020720	0.04544383	5	5.34E-01	0.560637788
WBGene00044553	0.934845109	11	1.77E-05	0.918256584
WBGene00020721	0.545657199	13	7.83E-04	0.376621574
WBGene00001040	0.203438215	5	1.92E-01	0.615857421
WBGene00020719	1	19	9.48E-09	1
WBGene00020718	0.986378471	6	5.31E-04	0.866005142
WBGene00020717	1	4	3.15E-04	2
WBGene00020716	1	4	7.26E-04	2
WBGene00020722	1	4	2.05E-03	1
WBGene00004256	2	31	9.53E-30	2

WBGene00022842	0.078971777	12	4.51E-01	0.299752041
WBGene00018481	0.489769536	3	6.13E-02	0.911527199
WBGene00018482	0.909738215	23	3.53E-09	0.932578466
WBGene00018483	0.402642081	4	6.96E-02	0.183798441
WBGene00018480	-0.401556529	9	5.57E+01	-0.410463467
WBGene00018479	-0.507474209	8	9.51E+01	-0.068511798
WBGene00018478	-0.477315488	10	1.98E+02	-0.275375282
WBGene00001882	-0.266850887	2	1.57E+00	-0.059345674
WBGene00001881	-0.025913873	1	5.68E-01	-0.008112696
WBGene00001880	-0.012588783	5	7.79E-01	-0.040240501
WBGene00001879	-0.001725023	1	5.29E-01	-0.076579313
WBGene00001913	0.011285829	2	5.45E-01	0.004165807
WBGene00018477	-0.193998013	12	1.46E+01	-0.206440838
WBGene00017798	0.040947247	25	1.25E+00	-0.611244099
WBGene00003816	-0.224683844	17	8.69E+01	-0.141118614
WBGene00006435	-0.1148546	8	2.60E+00	0.154276477
WBGene00000054	0.048367772	8	5.81E-01	0.200282075
WBGene00000055	0.310485367	12	2.36E-02	0.477088184
WBGene00017799	0.478618984	3	6.46E-02	-0.26247019
WBGene00017800	0.568062285	31	2.53E-07	0.168501903
WBGene00017797	0.095714583	53	2.63E-01	-0.218457936
WBGene00017796	0.169662176	22	6.78E-02	-0.362718048
WBGene00015670	-0.010973679	7	9.18E-01	-0.294550796
WBGene00015671	-0.313468449	6	7.86E+00	-0.746958254
WBGene00007055	0.018611552	7	7.18E-01	0.341879905
WBGene00018288	-0.488046405	6	2.85E+01	0.22001709
WBGene00018289	-0.004006879	1	5.33E-01	0.026665212
WBGene00044554	-0.250154001	4	2.70E+00	0.407906559
WBGene00018286	0.154581126	7	2.33E-01	0.34754707
WBGene00018290	0.316654512	10	3.29E-02	-0.336124353
WBGene00018285	0.670614077	35	1.50E-09	0.364228847
WBGene00018291	0.416450578	1	1.56E-01	-0.405556709
WBGene00001694	-0.963103596	7	2.43E+03	-0.850382519
WBGene00018292	-1	6	6.60E+03	-0.823949961
WBGene00018284	-0.042186154	1	5.95E-01	-0.102532232
WBGene00194909	0.069475371	5	4.57E-01	0.020970529
WBGene00018293	-0.213116916	6	3.74E+00	0.015068315
WBGene00018294	0.202400896	14	7.62E-02	-0.102885871
WBGene00018295	0.041551338	14	7.88E-01	-0.01202348
WBGene00001721	0.062006395	5	4.80E-01	0.031585238
WBGene00235312	0.008336376	1	5.14E-01	0.014435225
WBGene00017879	-0.344247985	6	9.86E+00	-0.451940984
WBGene00017880	-0.409677463	3	4.23E+00	-0.584750051
WBGene00017881	-0.533372803	12	1.10E+03	-0.35357107
WBGene00022538	1	20	4.41E-09	0.792596931
WBGene00022539	-0.139940501	3	1.19E+00	0.447355094
WBGene00022540	-0.421654681	3	4.48E+00	-0.281329736

WBGene00022537	-0.361817161	9	3.73E+01	-0.515437616
WBGene00000541	-0.298617967	12	5.55E+01	-0.143842315
WBGene00022541	-0.56857573	3	8.94E+00	-0.443990185
WBGene00022542	-0.305655292	9	2.12E+01	-0.168477029
WBGene00022544	-4.96E-05	2	5.69E-01	-2.61E-06
WBGene00022536	0	6	7.76E-01	0
WBGene00001616	0.232434906	14	4.92E-02	0.510527873
WBGene00022551	0.0020431	1	5.23E-01	0.018779029
WBGene00022552	-0.03302884	3	7.18E-01	0.009772032
WBGene00022550	-0.222076044	10	1.21E+01	0.112783561
WBGene00022549	-0.026581027	9	1.28E+00	-0.041373918
WBGene00022548	0.012325216	4	6.20E-01	-0.029546093
WBGene00022547	-0.130709949	7	2.47E+00	-0.441174667
WBGene00022546	-0.065241549	7	1.44E+00	-0.093677973
WBGene00015223	-0.209063146	10	1.04E+01	0.024480566
WBGene00015222	0.106851107	3	3.72E-01	-0.120482598
WBGene00015221	-0.271394457	3	2.21E+00	-0.202072425
WBGene00015224	-0.000613766	5	7.21E-01	0.012254882
WBGene00015227	0	7	8.38E-01	-0.074074855
WBGene00015225	-0.117113719	8	2.65E+00	-0.143448094
WBGene00015226	-0.419487867	7	2.70E+01	0.00030995
WBGene00015220	-0.246105826	9	1.16E+01	-0.261486125
WBGene00006006	-0.40552599	6	1.55E+01	-0.326387181
WBGene00015219	-0.294477367	8	1.35E+01	0.527597323
WBGene00015218	0.080399287	7	4.31E-01	-0.30922537
WBGene00006342	0.518361425	25	1.12E-05	0.592989326
WBGene00006467	0.346905384	20	2.32E-03	0.454763598
WBGene00004457	0.405608695	56	2.56E-08	0.570816572
WBGene00015277	0	6	7.76E-01	0
WBGene00021108	0	3	6.15E-01	0
WBGene00021107	0	12	1.23E+00	0
WBGene00021106	0	2	5.69E-01	0
WBGene00017188	0	3	6.15E-01	0
WBGene00017189	0	2	5.69E-01	0
WBGene00001924	0	1	5.26E-01	0
WBGene00001923	0	4	6.64E-01	0
WBGene00001925	0	1	5.26E-01	0
WBGene00001926	0	2	5.69E-01	0
WBGene00001928	0	2	5.69E-01	0
WBGene00001927	-0.004206775	1	5.33E-01	0.027723156
WBGene00017190	-0.012508002	26	5.01E+00	0.015384667
WBGene00017191	0	6	7.76E-01	0
WBGene00017192	0	3	6.15E-01	0
WBGene00017186	0	12	1.23E+00	0
WBGene00017185	0	2	5.69E-01	0
WBGene00019442	0	2	5.69E-01	0
WBGene00001902	0	1	5.26E-01	0

WBGene00001901	0	4	6.64E-01	0
WBGene00001895	0	1	5.26E-01	0
WBGene00001896	0	2	5.69E-01	0
WBGene00001894	0	2	5.69E-01	0
WBGene00001893	0	1	5.26E-01	0
WBGene00001891	-0.021862226	5	8.27E-01	-0.241538665
WBGene00001892	-0.117656135	1	7.42E-01	-0.412210278
WBGene00019448	-0.233082669	8	7.68E+00	0.003494704
WBGene00019445	0.067936316	3	4.46E-01	0.051050648
WBGene00019444	0.349555834	7	4.64E-02	0.56722223
WBGene00003386	0.164930288	13	1.41E-01	0.127892763
WBGene00019203	0.115037731	5	3.40E-01	-0.633896729
WBGene00019204	-0.407477746	22	1.83E+04	-0.376014782
WBGene00019202	-0.176026459	6	2.85E+00	0.075240125
WBGene00006760	0.495970191	10	4.61E-03	0.422363703
WBGene00020554	-0.014909705	15	1.96E+00	-0.277338521
WBGene00001526	0.226443429	29	8.28E-03	-0.122333322
WBGene00020553	-0.141952081	20	3.86E+01	0.282506594
WBGene00003634	-0.182686433	9	6.15E+00	0.276888133
WBGene00020555	-0.440045946	15	1.38E+03	-0.254139883
WBGene00019115	0.051022976	4	4.99E-01	-0.030181468
WBGene00019116	0.005685975	5	6.92E-01	-0.013020162
WBGene00006143	-0.41380475	8	4.03E+01	-0.166160038
WBGene00006145	-0.123396962	6	1.93E+00	-0.200317547
WBGene00006144	-0.308984393	3	2.63E+00	-0.069630599
WBGene00006146	-0.048402029	3	7.72E-01	-0.080168841
WBGene00019113	-0.215435423	7	4.99E+00	-0.216395211
WBGene00019112	-0.010238697	2	5.91E-01	-0.01478619
WBGene00019111	-0.388711836	9	4.89E+01	-0.251706255
WBGene00019109	0.388621363	9	1.96E-02	0.785176503
WBGene00005892	-0.125982378	5	1.63E+00	-0.053749499
WBGene00005894	-0.024371267	2	6.24E-01	-0.013368133
WBGene00005893	-0.136207782	5	1.74E+00	-0.000426642
WBGene00005412	-0.095970102	3	9.66E-01	-0.035145589
WBGene00019850	-1	4	1.93E+02	-0.578110055
WBGene00019849	-0.170318545	7	3.43E+00	-0.014900942
WBGene00019851	-0.126978329	8	2.90E+00	-0.025173956
WBGene00044617	-0.048944008	4	8.74E-01	-0.060175092
WBGene00016095	-0.525716387	7	6.51E+01	-0.206964826
WBGene00016094	-0.715611661	11	5.50E+03	-0.911352504
WBGene00016093	-0.608610827	21	7.69E+05	-0.610534623
WBGene00016092	-0.146785495	8	3.48E+00	-0.465698654
WBGene00016091	-0.088998883	12	3.84E+00	-0.487773829
WBGene00235313	-0.334269815	1	1.40E+00	0.203166584
WBGene00016096	-0.707961249	5	7.12E+01	0.036026108
WBGene00016097	0.343005359	2	1.54E-01	-0.253656812
WBGene00023417	-0.171797699	2	1.10E+00	0.264706305

WBGene00016099	-0.473835125	4	9.44E+00	-0.774977854
WBGene00016100	-1	3	6.89E+01	-0.870663217
WBGene00202512	-0.456505453	5	1.39E+01	-0.171287196
WBGene00023431	-0.236282377	2	1.40E+00	-0.542294424
WBGene00016101	-0.719015426	7	3.22E+02	-0.456795023
WBGene00020862	-1	5	8.02E+02	-2
WBGene00020863	-1	6	2.13E+03	-0.295125442
WBGene00020864	-0.340263064	13	1.38E+02	-0.405115699
WBGene00020865	0.072975214	4	4.41E-01	0.179049824
WBGene00002015	0.063981384	4	4.64E-01	0.098143362
WBGene00002019	0.314779953	6	7.58E-02	1
WBGene00002020	0.664259343	6	5.74E-03	0.566686475
WBGene00002017	-0.359397579	4	4.97E+00	-0.319178875
WBGene00020861	0.362351115	4	8.73E-02	0.455656659
WBGene00017659	-0.261588796	6	5.35E+00	0.457004743
WBGene00017658	-0.938697856	7	1.99E+03	-0.610880642
WBGene00017661	-0.035918928	3	7.28E-01	-0.00419502
WBGene00235330	-0.860224933	4	8.22E+01	-0.154775637
WBGene00004119	-0.25747238	6	5.19E+00	-0.006393984
WBGene00017657	0.435595751	23	1.56E-04	0.69321811
WBGene00195086	0.074083904	2	4.29E-01	0.42919188
WBGene00017660	-0.093122771	1	6.91E-01	0.528791236
WBGene00017656	-0.824454594	5	1.52E+02	-0.112581547
WBGene00017655	-0.22622447	2	1.35E+00	-0.110537352
WBGene00017654	-0.291081807	3	2.42E+00	-0.253199117
WBGene00017653	-0.04108808	6	1.05E+00	-0.088272942
WBGene00271808	0.463148525	2	9.72E-02	0.634526204
WBGene00017652	-0.516672326	5	2.06E+01	-0.269668594
WBGene00015053	-0.169839911	3	1.37E+00	-0.06063898
WBGene00015054	-0.615655994	7	1.37E+02	-0.575823553
WBGene00015055	-0.894803353	11	4.60E+04	-0.764844087
WBGene00006418	-1	10	1.22E+05	-0.834057685
WBGene00015056	-0.830695727	8	1.84E+03	-0.081917529
WBGene00235316	0.109954664	2	3.74E-01	0.014099754
WBGene00000717	-0.197899253	7	4.31E+00	-0.404259808
WBGene00000718	-0.61286558	6	7.17E+01	-1
WBGene00000599	-0.583373179	6	5.77E+01	-1
WBGene00044582	-0.108013714	10	3.45E+00	-0.291636151
WBGene00015057	-0.371835171	14	3.20E+02	-0.299924066
WBGene00004107	0.175294458	4	2.49E-01	0.456542619
WBGene00016045	0.506839066	15	6.28E-04	0.215548994
WBGene00004216	0.015437656	16	1.31E+00	-0.087056656
WBGene00016044	0.708802877	15	2.79E-05	0.739691276
WBGene00016046	-0.01408544	9	1.13E+00	0.200125356
WBGene00006221	-0.883318639	6	5.29E+02	-0.476278122
WBGene00000215	-0.636802255	13	7.87E+03	-0.566041052
WBGene00002132	0.270089776	9	6.46E-02	0.319929234

WBGene00007023	-0.00055062	9	9.84E-01	0.137288175
WBGene00044077	0.583304557	19	3.28E-05	0.447725023
WBGene00001695	-0.063706915	7	1.42E+00	0.114319977
WBGene00017193	0.502384802	4	3.98E-02	0.965426455
WBGene00017194	-0.103737807	12	4.63E+00	-0.15150111
WBGene00017195	-0.071498779	27	2.56E+01	-0.386882284
WBGene00000003	-0.115427176	7	2.18E+00	0.340581401
WBGene00006152	-0.089528799	7	1.76E+00	-0.256421045
WBGene00004211	-0.647850954	16	6.55E+04	-0.130873498
WBGene00017197	-0.370881458	3	3.52E+00	-0.271563159
WBGene00202511	-0.384239398	2	2.46E+00	0.080197325
WBGene00017198	-0.144992137	10	5.18E+00	0.012817933
WBGene00022788	0.651958334	7	3.79E-03	0.841057808
WBGene00001954	-0.111938631	4	1.24E+00	0.367416764
WBGene00022789	-0.039037944	5	9.25E-01	0.076733526
WBGene00022790	-0.627003111	7	1.51E+02	-0.807841849
WBGene00018405	0.207600659	17	5.11E-02	0.118563956
WBGene00018404	-0.680699885	6	1.18E+02	-0.624594367
WBGene00018403	-0.342137387	14	2.08E+02	-0.054462852
WBGene00018402	1	6	2.18E-04	1
WBGene00018406	0.435367187	7	2.28E-02	0.316453812
WBGene00006499	0.390461832	16	2.88E-03	0.182442267
WBGene00019465	0.200720255	15	7.05E-02	0.392031911
WBGene00019464	-0.257651745	8	9.62E+00	0.117101858
WBGene00006729	0.053302406	5	5.08E-01	0.155168056
WBGene00000766	-0.078081313	8	1.85E+00	0.258382227
WBGene00019466	1	7	1.03E-05	0.479383102
WBGene00019467	0.200120569	12	9.64E-02	0.614588968
WBGene00006623	-0.055093632	12	2.49E+00	0.445953927
WBGene00005938	-0.272768966	3	2.22E+00	-0.126007758
WBGene00005937	-0.256222813	8	9.50E+00	-0.13430134
WBGene00017091	-0.32963454	4	4.21E+00	-0.424384108
WBGene00023485	-0.001289035	5	7.24E-01	-0.247818234
WBGene00001665	-0.094539195	8	2.16E+00	0.082779966
WBGene00017092	-0.187550996	4	1.90E+00	-0.035999368
WBGene00017093	-0.13135106	4	1.39E+00	0.003472471
WBGene00017094	-0.202434282	6	3.46E+00	-0.292275434
WBGene00271797	0	2	5.69E-01	0
WBGene00017095	-0.262873149	8	1.01E+01	-0.314978279
WBGene00017096	-0.670188754	3	1.44E+01	-0.193452876
WBGene00017097	-0.018669348	3	6.71E-01	-0.004774611
WBGene00002036	-0.027202272	51	9.25E+01	0.168189611
WBGene00018088	0.269865093	3	1.73E-01	0.367568073
WBGene00018089	0.343570619	36	6.33E-05	0.421154192
WBGene00018087	0.30195794	6	8.34E-02	0.371136769
WBGene00018090	0.342881097	19	3.16E-03	0.247313449
WBGene00018091	-0.005443262	1	5.35E-01	-0.012673005

WBGene00021821	-0.008867553	2	5.88E-01	0.036158739
WBGene00019237	-0.134374855	68	4.34E+05	0.164064521
WBGene00008556	-0.267911362	7	7.70E+00	0.272479702
WBGene00001449	0.076964748	7	4.43E-01	0.129127489
WBGene00003522	-0.09878007	11	3.68E+00	-0.7965853
WBGene00010596	-1	4	3.80E+02	-1
WBGene00010592	-0.187742018	7	3.97E+00	0.098155008
WBGene00077497	-0.016600989	1	5.53E-01	0.01273129
WBGene00010597	-0.048020875	2	6.83E-01	0.041903717
WBGene00010593	0.183440851	14	1.00E-01	0.057142534
WBGene00010594	2	14	2.26E-11	2
WBGene00010595	0.439252101	6	3.02E-02	0.883753088
WBGene00008669	-0.442405471	12	3.47E+02	0.105311538
WBGene00008670	0.233829691	10	8.16E-02	0.465891787
WBGene00008233	0.27566211	8	7.23E-02	-0.360630523
WBGene00008234	-0.571445378	6	5.28E+01	0.248643204
WBGene00008229	-0.245206951	5	3.53E+00	-0.129188951
WBGene00008235	-0.400479642	8	3.57E+01	0.020626492
WBGene00008230	0.138689847	14	1.92E-01	0.225028781
WBGene00008231	0.269960249	7	8.97E-02	0.047545124
WBGene00008232	0.365731953	5	6.68E-02	0.491565825
WBGene00008236	0.462739186	9	9.29E-03	0.692880433
WBGene00008238	0.000651259	8	9.00E-01	0.211434206
WBGene00003160	0.23443794	11	7.10E-02	0.467171631
WBGene00001909	0.348039557	1	1.90E-01	-0.171852731
WBGene00001915	0.196769062	6	1.81E-01	-0.381863745
WBGene00001910	0.278524155	4	1.40E-01	-0.132719001
WBGene00001911	1	2	7.86E-03	0.585238056
WBGene00008237	0.506341062	6	1.84E-02	0.416934535
WBGene00009098	0.554963167	25	4.58E-06	0.438045342
WBGene00009100	0.61259159	22	4.60E-06	1
WBGene00009101	-0.602718258	11	1.44E+03	-0.262337204
WBGene00009102	-0.370921316	6	1.20E+01	-0.091888213
WBGene00009099	0.182167233	8	1.70E-01	0.008947795
WBGene00009103	0.30843629	15	1.34E-02	0.097520652
WBGene00010727	-0.081718227	15	5.49E+00	-0.179565442
WBGene00010728	-0.067688852	3	8.45E-01	-0.256061022
WBGene00001053	0.941197723	19	3.67E-08	0.945135931
WBGene00004146	-0.054266421	7	1.31E+00	-0.074480497
WBGene00011537	-0.25447109	3	2.04E+00	-0.751101039
WBGene00011536	-0.621544169	5	4.06E+01	-1
WBGene00011535	-1	3	1.06E+02	-2
WBGene00077691	-0.318936617	2	1.92E+00	-0.002759014
WBGene00011534	-0.264920556	7	7.51E+00	-0.429167538
WBGene00044011	-0.587581356	2	5.35E+00	-0.622417669
WBGene00000719	-0.007063472	1	5.37E-01	0
WBGene00011533	-0.015951296	2	6.05E-01	-0.001514598

WBGene00000720	-0.075378544	2	7.58E-01	-0.011641756
WBGene00000226	0.398212914	42	1.85E-06	0.252011315
WBGene00001830	-0.296751246	16	2.13E+02	-0.461348359
WBGene00235328	-0.065617463	3	8.37E-01	-0.159206694
WBGene00007140	-0.196946041	10	9.15E+00	-0.471946205
WBGene00007141	-0.528192342	8	1.15E+02	-0.353196017
WBGene00013962	0.820511175	13	1.85E-05	0.689842131
WBGene00013963	-0.08280811	14	4.80E+00	-0.13461027
WBGene00013964	-0.144337261	4	1.49E+00	-0.40402168
WBGene00013968	-0.091223	1	6.87E-01	-0.182290026
WBGene00013965	-0.663736009	24	1.81E+07	-1
WBGene00004320	0.144711041	4	2.95E-01	-0.032909357
WBGene00013966	0.792297776	8	6.32E-04	0.278715009
WBGene00013967	0.263463726	6	1.11E-01	0.151039493
WBGene00001842	-0.145036029	12	7.84E+00	-0.168035111
WBGene00009580	0.307355583	15	1.36E-02	0.52229902
WBGene00006470	0.347782996	17	4.58E-03	0.415216814
WBGene00009586	-0.159138426	8	3.90E+00	-0.290469253
WBGene00009581	-0.367684694	4	5.21E+00	0.243161661
WBGene00006230	-0.344434813	6	9.87E+00	0.295118898
WBGene00009582	-0.040986371	11	1.86E+00	0.075377212
WBGene00009583	0.506418499	21	6.68E-05	0.502575765
WBGene00009584	0.534208477	19	8.34E-05	-0.068530603
WBGene00009585	-0.220340483	3	1.73E+00	-0.317930295
WBGene00000172	-1	9	2.54E+05	-1
WBGene00077696	-0.979825592	4	1.61E+02	-0.881714031
WBGene00010251	-0.237024188	10	1.42E+01	-0.317413643
WBGene00077697	-0.266421209	12	3.68E+01	-0.293628556
WBGene00010253	-0.249705624	2	1.47E+00	-0.150427642
WBGene00010255	-0.622927423	4	2.18E+01	-0.237809179
WBGene00010254	-0.842020537	9	4.69E+03	-1
WBGene00010257	-1	4	2.56E+02	-0.42476192
WBGene00010256	0.126145459	3	3.39E-01	-0.134218709
WBGene00010258	0.016315867	5	6.46E-01	-0.042784308
WBGene00006778	0.300079794	15	1.52E-02	0.216314999
WBGene00009768	-0.054025393	6	1.16E+00	0.051030315
WBGene00009776	-0.024583221	6	9.30E-01	0.467396111
WBGene00004882	-0.292231406	4	3.41E+00	-0.093575231
WBGene00009769	-0.376005046	11	9.84E+01	-1
WBGene00009770	0.180417482	26	3.85E-02	-0.379866153
WBGene00009771	0.526301007	16	3.14E-04	-0.009101187
WBGene00009772	0.875602723	17	5.21E-07	0.165269219
WBGene00009773	-0.190841777	13	1.80E+01	-0.250770285
WBGene00009774	0.558826998	5	1.91E-02	0.506684492
WBGene00044192	0.083582299	2	4.13E-01	0.122433103
WBGene00009775	-0.083896533	3	9.12E-01	0.260680522
WBGene00005702	0.011391741	1	5.09E-01	0

WBGene00005700	-0.012285464	4	7.11E-01	0
WBGene00005692	-0.379183012	2	2.42E+00	-0.072971985
WBGene00005693	-0.373456713	4	5.38E+00	-0.336817613
WBGene00005694	-0.107774362	6	1.72E+00	-0.474517807
WBGene00006232	-0.487835394	6	2.85E+01	-0.206266843
WBGene00006070	-0.546908788	7	7.76E+01	-0.081019659
WBGene00005703	0	4	6.64E-01	0
WBGene00005701	0	5	7.18E-01	-0.053742669
WBGene00011084	-0.746053843	5	9.12E+01	-0.594901008
WBGene00005699	-0.004783897	3	6.29E-01	0.011618608
WBGene00005671	-0.17660233	5	2.26E+00	0.115269705
WBGene00045419	0.172439789	67	2.05E-03	0.454191283
WBGene00011701	-0.589276229	7	1.10E+02	-0.878661955
WBGene00011702	-0.075192232	5	1.17E+00	0.113822057
WBGene00043059	0	5	7.18E-01	-0.088278075
WBGene00011704	-0.319985756	5	5.73E+00	0.102240351
WBGene00011705	-0.101977077	12	4.53E+00	0.116801265
WBGene00008239	-0.121604676	18	1.78E+01	-0.30733199
WBGene00001211	0.032558935	16	9.90E-01	0.153772034
WBGene00008244	0.586439109	1	9.48E-02	0.092530706
WBGene00003173	0.081578443	21	4.55E-01	0.135746696
WBGene00008245	-0.711173141	1	4.21E+00	-0.843989611
WBGene00008240	-0.573739875	3	9.16E+00	0.037111214
WBGene00008241	0.135802372	6	2.84E-01	-0.251901598
WBGene00008242	-0.07003186	2	7.43E-01	0.005381798
WBGene00008243	-0.142870929	9	4.12E+00	0.079181405
WBGene00008246	-0.219418608	7	5.15E+00	-0.499897855
WBGene00011576	-0.409286201	14	5.51E+02	0.436164009
WBGene00044204	0.037037335	5	5.64E-01	0.235327017
WBGene00005618	-0.508295232	7	5.63E+01	-0.273548356
WBGene00011577	0	1	5.26E-01	-0.149297814
WBGene00011570	0.030041211	2	5.07E-01	-0.000211401
WBGene00077775	-0.00287699	6	7.92E-01	-0.006502308
WBGene00011571	-0.473856043	6	2.57E+01	-0.150575039
WBGene00011572	0.036538796	19	1.06E+00	0.12580253
WBGene00011573	0.310224601	6	7.84E-02	-0.522541587
WBGene00011574	-1	1	2.19E+01	-0.154847025
WBGene00011575	-0.300858734	10	2.86E+01	0.653418252
WBGene00006777	2	46	5.02E-30	1
WBGene00007784	0.619882947	10	1.19E-03	0.880020032
WBGene00007785	0.435862216	6	3.10E-02	0.505144449
WBGene00077500	0.310786098	6	7.81E-02	0.047945459
WBGene00007786	0.084901598	8	4.16E-01	-0.125556155
WBGene00007787	-0.185059134	12	1.31E+01	-0.214097087
WBGene00004323	0.35962604	15	6.08E-03	0.487875056
WBGene00010699	0.345810611	4	9.57E-02	0.106627637
WBGene00010698	-0.051724089	5	1.00E+00	-0.069548541

WBGene00077491	-0.067478407	2	7.36E-01	0.143036273
WBGene00010697	0.360212173	13	9.82E-03	-0.010715916
WBGene00002263	0.37764241	35	2.56E-05	0.532570797
WBGene00011543	0.13071335	8	2.73E-01	-0.128894596
WBGene00011544	0.69389305	2	4.03E-02	-0.582237423
WBGene00010177	0.294610038	43	9.20E-05	-0.070542272
WBGene00303063	0.347691021	1	1.91E-01	0.297342211
WBGene00010178	-0.10499069	9	2.82E+00	-0.051839952
WBGene00006169	0.100281568	3	3.83E-01	0.00551391
WBGene00010183	0.246379483	3	1.93E-01	0.622646914
WBGene00010179	0.860383711	4	5.36E-03	1
WBGene00010180	0.646194836	4	1.78E-02	0.558712166
WBGene00010181	-0.966624033	11	1.08E+05	-1
WBGene00010182	-0.085117232	8	1.98E+00	-0.523060471
WBGene00011001	-0.019176455	1	5.57E-01	0.090279724
WBGene00011002	-0.073209081	4	1.00E+00	-0.144294278
WBGene00003611	-0.336621896	8	1.99E+01	-0.007779676
WBGene00011004	0.487585222	9	7.23E-03	-0.391796172
WBGene00011003	0.408443176	7	2.85E-02	0.114021878
WBGene00011005	0.033864841	3	5.24E-01	-0.010909527
WBGene00011008	-0.282248782	4	3.23E+00	0.016120799
WBGene00005127	0.031165975	4	5.58E-01	0.049712113
WBGene00011006	-0.141649915	7	2.71E+00	-0.152913422
WBGene00044044	-0.806491302	10	7.28E+03	-0.580844979
WBGene00007422	-0.693234323	11	4.22E+03	-0.455595483
WBGene00007423	-0.437105407	3	4.81E+00	-0.218959862
WBGene00007431	-0.333272483	6	9.09E+00	-0.318394373
WBGene00007424	-0.14979142	6	2.34E+00	-0.27830032
WBGene00007425	-1	16	3.36E+07	-0.927295853
WBGene00007426	-0.46576499	4	9.02E+00	-0.415349997
WBGene00007432	-0.282470933	4	3.23E+00	-0.447665386
WBGene00044012	0	4	6.64E-01	-0.00516427
WBGene00007427	0.019486926	3	5.61E-01	0
WBGene00007430	0.073705243	3	4.34E-01	0.017813806
WBGene00000142	0.230941105	13	5.72E-02	0.181443481
WBGene00007428	0.143297739	17	1.55E-01	0.002433695
WBGene00303036	-0.040649893	1	5.93E-01	-0.027906506
WBGene00007429	0.166937115	20	8.30E-02	0.303890879
WBGene00008254	0.283710353	14	2.34E-02	-0.078729642
WBGene00008247	0.364665263	6	5.25E-02	1
WBGene00008248	-0.162327556	8	4.01E+00	0.161358799
WBGene00008249	-0.025661119	5	8.48E-01	-0.025709322
WBGene00008250	-0.185517954	2	1.15E+00	-0.1277112
WBGene00008251	-0.468904549	6	2.48E+01	-0.238675795
WBGene00008255	-0.043910022	4	8.49E-01	-0.12459962
WBGene00008252	-0.22930504	6	4.22E+00	-0.143611437
WBGene00001172	0.825084539	26	3.30E-09	1

WBGene00000840	0.416635492	10	1.10E-02	0.260932804
WBGene00014105	0.143694358	3	3.12E-01	-0.142746731
WBGene00194912	-0.126361109	4	1.35E+00	-0.1265431
WBGene00014106	-0.294859251	14	1.05E+02	-0.19554628
WBGene00014107	-0.847153803	8	2.14E+03	-0.803422974
WBGene00014108	0.31000038	2	1.74E-01	-0.246866227
WBGene00014109	0.191479882	6	1.89E-01	-0.617230529
WBGene00014112	-0.057223951	8	1.53E+00	0.044107657
WBGene00303100	0.00113834	1	5.25E-01	0.553837951
WBGene00050936	0.00113834	1	5.25E-01	0.553837951
WBGene00014111	-0.019638562	6	8.97E-01	0.139023054
WBGene00014114	0.651857274	19	8.93E-06	0.104789005
WBGene00006489	0.429974925	6	3.24E-02	0.260205896
WBGene00014113	-0.478043427	16	4.10E+03	-0.254458077
WBGene00044020	-0.002352899	3	6.21E-01	-0.001569432
WBGene00007540	-0.151712442	5	1.92E+00	-0.042014416
WBGene00044174	-1	2	9.79E+01	-0.657223185
WBGene00044175	-0.28325409	3	2.33E+00	-0.925686342
WBGene00194780	-0.086792747	8	2.01E+00	-0.427553243
WBGene00007536	-0.029166009	7	1.07E+00	0.000259975
WBGene00007535	-0.459354197	3	5.34E+00	-0.660352278
WBGene00007541	-0.764989508	4	4.82E+01	-0.980889439
WBGene00007542	-1	5	6.67E+02	-1
WBGene00007543	-0.645719984	3	1.29E+01	-1
WBGene00007544	-0.495600118	4	1.07E+01	-0.390384218
WBGene00006226	0	3	6.15E-01	-0.009353774
WBGene00007534	0.258750877	13	3.92E-02	-0.087610227
WBGene00007537	-1	5	1.15E+03	-0.307137966
WBGene00195157	-0.71957153	1	4.31E+00	0.7963419
WBGene00000721	-0.548650997	6	4.46E+01	-0.281690103
WBGene00007538	-0.032461179	1	5.79E-01	-0.585486371
WBGene00000102	0.273095173	13	3.22E-02	0.408910413
WBGene00004405	0.229993675	14	5.10E-02	0.130008321
WBGene00012494	-0.297118203	6	6.96E+00	-0.415682847
WBGene00005530	0.23481681	4	1.78E-01	0.193732357
WBGene00004364	0.902115064	20	3.72E-08	0.976882237
WBGene00206471	0.913961667	1	3.64E-02	0.404201596
WBGene00003090	0.199076757	6	1.78E-01	0.061692476
WBGene00003091	-0.142725748	6	2.23E+00	-0.21965616
WBGene00003092	0.561105287	7	8.05E-03	0.063102068
WBGene00007096	1	6	2.10E-04	0.942175163
WBGene00007104	0.000159125	4	6.64E-01	-0.022361685
WBGene00000722	-0.288382847	7	9.12E+00	-0.501697612
WBGene00000723	-0.153453649	4	1.57E+00	-0.005698562
WBGene00007097	-0.001911268	2	5.73E-01	0
WBGene00000491	-0.365011201	27	5.48E+04	-0.207785935
WBGene00001533	-0.622855144	29	1.64E+08	-0.63418292

WBGene00007099	0.243329621	4	1.70E-01	-0.277338732
WBGene00007100	0.399359904	10	1.33E-02	-0.14876584
WBGene00007101	0.518526664	10	3.60E-03	0.237764743
WBGene00001646	0.698529707	3	2.29E-02	0.712551722
WBGene00007102	-0.161706538	3	1.32E+00	-0.020707118
WBGene00007103	-0.080101781	25	2.38E+01	-0.279405419
WBGene00000200	0.228222949	8	1.12E-01	0.608039901
WBGene00010625	0.789800811	7	1.21E-03	0.447767134
WBGene00050947	-0.001058711	2	5.71E-01	0.153416311
WBGene00010626	0.524184155	11	2.29E-03	0.494270586
WBGene00010632	-0.369958566	14	3.11E+02	0.142567537
WBGene00010627	2	14	2.58E-12	0.999277086
WBGene00010629	0.208642951	9	1.20E-01	0.351222141
WBGene00010628	0.05685881	6	5.10E-01	-0.21134091
WBGene00010630	-0.131609643	11	5.44E+00	0.096059818
WBGene00010631	-0.034150087	22	5.62E+00	0.62361657
WBGene00005532	-0.08451623	4	1.07E+00	0.031951519
WBGene00007070	-0.048463879	7	1.25E+00	0.000307362
WBGene00077503	0	1	5.26E-01	0
WBGene00000024	-0.141650911	1	7.96E-01	-0.244167322
WBGene00004098	-0.168174817	2	1.08E+00	-0.217416219
WBGene00004964	-0.168034776	6	2.68E+00	-0.171616166
WBGene00007071	-0.618716304	21	9.49E+05	-0.325662626
WBGene00000724	-0.612270775	10	8.67E+02	-0.255916104
WBGene00007072	-0.85050124	13	1.45E+05	-0.761732657
WBGene00007073	-0.844899994	16	1.63E+06	-0.59275324
WBGene00008875	-0.442843166	5	1.27E+01	-0.244618258
WBGene00008874	-0.211151022	16	5.27E+01	-0.532192252
WBGene00195181	-0.136538619	3	1.17E+00	-0.454846664
WBGene00044013	-0.297807341	8	1.39E+01	-0.409904935
WBGene00044014	-0.07039298	3	8.56E-01	-0.02464565
WBGene00008872	-0.821185847	6	3.34E+02	-0.335998655
WBGene00000602	-0.115847822	13	6.48E+00	-0.07347292
WBGene00000601	-0.142604789	13	9.33E+00	-0.262085884
WBGene00000144	-0.163580616	3	1.33E+00	0.068690648
WBGene00008871	-0.494888166	9	1.42E+02	-0.38780306
WBGene00012529	0.049209646	19	8.34E-01	0.147067631
WBGene00012527	0.000526236	10	1.05E+00	0.159220755
WBGene00004909	0.029561798	8	6.91E-01	0.241021295
WBGene00012528	-0.015123791	15	1.97E+00	0.403385642
WBGene00012530	-0.42649939	27	2.74E+05	-0.356868521
WBGene00009058	0.376742082	17	2.78E-03	0.0502525
WBGene00009060	-0.626301529	12	3.61E+03	-0.179237734
WBGene00009059	-0.063748292	6	1.24E+00	-0.058026902
WBGene00001178	0.188939888	41	7.90E-03	-0.403420933
WBGene00012532	-0.086196844	4	1.08E+00	0.155903456
WBGene00303085	-0.02706898	1	5.70E-01	0.050580194

WBGene00012531	-0.406996527	15	8.28E+02	-0.235284959
WBGene00003570	-0.272896074	15	1.05E+02	-0.57236258
WBGene00000173	0.091733967	6	3.94E-01	0.421665797
WBGene00007946	-0.798182844	12	3.23E+04	-0.477100897
WBGene00007948	-0.175040927	7	3.57E+00	-0.029351704
WBGene00007947	-0.267382202	5	4.07E+00	-0.412233517
WBGene00044024	-0.045978408	6	1.09E+00	-0.407170635
WBGene00044016	-1	4	1.88E+03	-1
WBGene00007949	-0.299230427	4	3.55E+00	-0.446507314
WBGene00007950	0.099445901	4	3.81E-01	0.571060398
WBGene00007951	0.693910181	12	1.78E-04	0.831834961
WBGene00007952	0.08175851	20	4.52E-01	-0.057725324
WBGene00007953	-0.186698359	7	3.93E+00	0.144945394
WBGene00009108	-0.166182909	6	2.65E+00	0.026193143
WBGene00009107	-0.017612188	3	6.68E-01	0.032093186
WBGene00006460	0.001610354	6	7.66E-01	0.142071527
WBGene00195256	0.229515302	3	2.09E-01	-0.075877492
WBGene00009109	-0.112297674	10	3.62E+00	-0.031804765
WBGene00009110	-1	8	2.81E+04	-0.181891766
WBGene00005112	-0.349408568	4	4.70E+00	-0.234898962
WBGene00009338	-0.031476773	9	1.34E+00	-0.064534231
WBGene00009339	-0.096088603	3	9.66E-01	-0.195766666
WBGene00009340	-0.25571685	8	9.45E+00	-0.067487819
WBGene00000725	-0.138304268	7	2.63E+00	-0.209063861
WBGene00000298	-0.008699873	10	1.16E+00	-0.373897151
WBGene00006934	-0.018140541	43	2.84E+01	-0.175707151
WBGene00011891	0.084777012	15	4.22E-01	-0.336454238
WBGene00011890	0.217213085	8	1.24E-01	0.260172428
WBGene00011892	-0.08463089	2	7.86E-01	0.091260661
WBGene00003065	-0.035782599	3	7.27E-01	0.006143488
WBGene00011893	-0.207230021	13	2.25E+01	-0.201244285
WBGene00005189	-0.480498372	6	2.70E+01	-0.758698722
WBGene00011894	-0.826756282	5	1.54E+02	-1
WBGene00011895	-0.108325817	8	2.45E+00	-0.067908384
WBGene00011896	-0.021886142	6	9.12E-01	0.051749586
WBGene00011898	-0.053731308	6	1.15E+00	0.196499466
WBGene00011897	0.079933023	10	4.40E-01	0.001541498
WBGene00010418	-0.154661671	12	8.86E+00	-0.028659966
WBGene00010375	-0.467627907	10	1.78E+02	-0.100285636
WBGene00003114	-0.354786387	6	1.07E+01	-0.28405336
WBGene00007862	0.318411094	28	7.81E-04	0.442084144
WBGene00007863	-0.114703969	4	1.26E+00	0.662809948
WBGene00206383	-0.615320419	2	5.95E+00	-0.54408543
WBGene00000174	-0.322622779	10	3.63E+01	-0.166634843
WBGene00044286	-1	12	2.05E+07	-0.55763676
WBGene00009255	-0.365414081	7	1.73E+01	0.072882999
WBGene00009256	0.375174724	7	3.75E-02	0.634039991

WBGene00005022	-0.094472637	12	4.12E+00	0.007288874
WBGene00006667	-0.460590637	17	5.03E+03	-0.733508593
WBGene00000445	-0.007320148	7	8.90E-01	-0.152103058
WBGene00001747	0.6787719	18	9.08E-06	0.486109984
WBGene00219209	-0.008441192	1	5.40E-01	0.064708183
WBGene00220253	0.042303266	2	4.84E-01	-0.347525936
WBGene00004083	-0.500471509	14	2.07E+03	-0.245192862
WBGene00012117	0.14113138	67	1.42E-02	-0.188924938
WBGene00003405	-0.674682581	20	1.54E+06	-0.950477554
WBGene00013862	-0.052463088	10	1.88E+00	-0.795070581
WBGene00013863	-0.436983185	11	2.03E+02	-0.368072343
WBGene00005610	-0.796592242	6	2.79E+02	-0.956286431
WBGene00005609	-0.269473809	6	5.68E+00	-0.407019556
WBGene00009238	-0.049313704	3	7.75E-01	-0.357249372
WBGene00009236	-0.273709492	5	4.24E+00	-0.969784324
WBGene00009237	-2	6	4.84E+05	-1
WBGene00009240	-0.740730805	8	8.08E+02	-0.848871384
WBGene00009239	-0.844525203	11	2.54E+04	-0.3085673
WBGene00009241	-0.70585879	13	2.02E+04	-0.287827247
WBGene00009242	-0.147153881	4	1.51E+00	-0.03969811
WBGene00003838	0.069187657	13	5.19E-01	-0.012194317
WBGene00008370	0.28900425	7	7.66E-02	0.080558977
WBGene00003923	0.356557401	5	7.09E-02	0.202318354
WBGene00008371	0.838040415	5	3.11E-03	0.586304001
WBGene00008372	0.158096351	16	1.28E-01	-0.032807064
WBGene00008375	0.053674664	4	4.92E-01	0.253505431
WBGene00008376	-0.488138734	17	8.08E+03	-0.496334275
WBGene00008377	0.060136442	3	4.63E-01	0.050218735
WBGene00008378	-0.119978059	4	1.30E+00	-0.179404588
WBGene00194677	-0.061361921	4	9.37E-01	-0.081776155
WBGene00005399	-0.186254565	2	1.16E+00	-0.284283352
WBGene00077783	-0.265267955	3	2.14E+00	-0.061547143
WBGene00008379	-0.067219034	13	3.34E+00	-0.11607857
WBGene00008380	0.609680461	9	2.12E-03	0.199044083
WBGene00006481	0.735405007	15	1.85E-05	-0.379668138
WBGene00206498	-0.14508629	1	8.04E-01	0.716127439
WBGene00007797	-0.199780492	6	3.39E+00	0.325075448
WBGene00002985	-0.055818735	15	3.68E+00	-0.130903487
WBGene00007799	0.487552263	47	9.03E-09	0.604959646
WBGene00007800	0.249959509	17	2.47E-02	0.462346065
WBGene00010012	0.659610268	39	2.79E-10	0.332439778
WBGene00009326	-0.510985843	9	1.68E+02	-0.518654088
WBGene00009327	-0.313235	7	1.12E+01	-0.225127135
WBGene00009328	-0.091729767	3	9.47E-01	0.801405134
WBGene00043302	0.794810032	6	2.19E-03	0.234702981
WBGene00009334	-0.069260794	14	3.94E+00	0.089414401
WBGene00009329	0.071396176	10	4.84E-01	0.128306246

WBGene00009336	0.262893545	5	1.30E-01	0.252202512
WBGene00009330	0.613704012	4	2.14E-02	0.492724082
WBGene00009335	0.863790983	7	6.57E-04	0.457274423
WBGene00001303	2	3	6.37E-05	1
WBGene00009331	-0.339594695	8	2.04E+01	-0.414483898
WBGene00005001	-0.437783476	4	7.71E+00	-0.14909523
WBGene00009332	-0.428960107	4	7.34E+00	-0.19845595
WBGene00009325	0.519877792	12	1.64E-03	0.638654235
WBGene00009333	0.421477071	10	1.04E-02	0.921881339
WBGene00010235	0.488890062	3	6.15E-02	0.182259986
WBGene00003549	-0.105515326	6	1.69E+00	-0.015147304
WBGene00077682	-0.124083395	3	1.10E+00	-0.193321511
WBGene00010239	-0.379169545	8	2.93E+01	-0.290919478
WBGene00010236	-0.869792045	4	8.67E+01	-0.259784996
WBGene00010237	-0.658142288	5	5.15E+01	-0.545265106
WBGene00010238	-0.141776407	3	1.20E+00	0
WBGene00008923	-0.215208232	9	8.54E+00	0.048091227
WBGene00008922	-0.376238782	6	1.25E+01	0.481292086
WBGene00303011	0.558288696	5	1.91E-02	0.435845444
WBGene00077761	0.950509624	4	3.24E-03	0.490265313
WBGene00008914	0.157051707	3	2.93E-01	0.694235958
WBGene00000726	0.882203727	10	6.70E-05	0.102106353
WBGene00008915	-0.017678374	7	9.70E-01	-0.292761946
WBGene00008916	0.159697148	3	2.90E-01	0.566811337
WBGene00008917	0.03475066	2	4.98E-01	0.060045276
WBGene00023503	0.197081694	4	2.20E-01	0.205390597
WBGene00008918	0.519361585	5	2.46E-02	0.862303211
WBGene00008919	0.544052012	10	2.72E-03	0.607462412
WBGene00008921	-0.01158185	22	3.44E+00	0.173319974
WBGene00008920	1	8	4.47E-06	0.548929848
WBGene00219325	-0.085997633	6	1.46E+00	0.086145913
WBGene00009968	-0.639190813	50	2.11E+14	-0.418210427
WBGene00009965	-0.452765254	11	2.44E+02	-0.249843124
WBGene00009969	0.054921368	2	4.61E-01	0.063241783
WBGene00009966	0.056950683	3	4.70E-01	0.030041064
WBGene00009967	0.333319169	4	1.03E-01	0.403680358
WBGene00007553	-0.518504814	6	3.57E+01	-0.348511309
WBGene00001991	-0.282862822	8	1.21E+01	0.622703956
WBGene00303040	0.027240608	1	4.86E-01	0.043913742
WBGene00007554	0.611459081	12	5.10E-04	0.605488308
WBGene00006443	0.370418547	11	1.42E-02	-0.101311168
WBGene00185117	0.012753741	1	5.07E-01	-0.020323288
WBGene00077699	-0.093024171	4	1.12E+00	-0.091281384
WBGene00008106	-0.340044902	2	2.08E+00	-0.145209025
WBGene00008105	-0.04334138	5	9.51E-01	-0.055136704
WBGene00045379	-0.610095958	4	2.02E+01	-0.070680866
WBGene00000981	-0.568644735	6	5.17E+01	-0.602798217

WBGene00005295	-0.312369153	5	5.46E+00	-0.166537147
WBGene00271444	-0.06754825	2	7.36E-01	-0.200829347
WBGene00011429	-0.06030585	2	7.16E-01	-0.087997708
WBGene00005296	-0.002945091	1	5.31E-01	-0.011710192
WBGene00011427	-0.010085927	2	5.91E-01	-0.836565097
WBGene00077693	-0.169049676	3	1.36E+00	-0.233567025
WBGene00050889	0.182691321	1	3.09E-01	-0.020740028
WBGene00011428	-0.150751761	3	1.25E+00	-0.20066257
WBGene00011430	-0.620504493	3	1.14E+01	0.044825179
WBGene00000065	0.567294763	14	3.80E-04	0.124063167
WBGene00000064	-0.139519035	10	4.88E+00	-0.456712489
WBGene00000063	0.217239262	15	5.47E-02	-0.50312637
WBGene00012776	-0.57378032	40	2.74E+10	-0.307203525
WBGene00012777	-0.361147269	9	3.71E+01	-0.157038664
WBGene00012778	-1	8	1.41E+04	-1
WBGene00012779	-0.143699787	22	6.03E+01	0.004222454
WBGene00012780	-0.211811765	39	2.45E+04	-0.461342497
WBGene00010405	0.33369543	6	6.59E-02	-0.081981264
WBGene00010406	0.41272403	22	3.50E-04	0.237453353
WBGene00010407	0.333211059	4	1.03E-01	0.128805223
WBGene00010408	0.477120545	7	1.61E-02	-0.104439719
WBGene00007385	0.52539944	8	7.31E-03	-0.076549572
WBGene00007390	0.340447474	2	1.55E-01	0.168557342
WBGene00007386	0.154980029	7	2.32E-01	0.324315869
WBGene00007387	0.286839506	13	2.67E-02	0.41529467
WBGene00007389	0.57086155	18	6.40E-05	0.575165759
WBGene00007388	0.400243942	4	7.06E-02	1
WBGene00007391	0.323377504	9	3.78E-02	0.426809176
WBGene00219420	-0.112541671	1	7.31E-01	0.340126787
WBGene00003771	-0.230963926	3	1.82E+00	0.504165081
WBGene00011838	-0.598356531	6	6.44E+01	-0.237219067
WBGene00005196	-1	8	5.16E+04	-0.524794266
WBGene00005195	-0.532052678	9	2.07E+02	-0.418125943
WBGene00005199	5.02E-05	3	6.15E-01	0.014948915
WBGene00005198	-0.08476718	3	9.16E-01	-0.003913319
WBGene00005197	0.118829949	6	3.22E-01	0.207250547
WBGene00011839	1	6	3.31E-05	1
WBGene00001663	0.550627293	4	3.04E-02	0.341582572
WBGene00012152	0.014516654	3	5.74E-01	-0.227949677
WBGene00010741	-0.972229008	12	2.96E+05	-0.164541689
WBGene00010742	-0.119639157	5	1.56E+00	0.08501483
WBGene00010743	-0.582771576	5	3.16E+01	-0.33995901
WBGene00010744	-0.26339793	47	2.00E+06	-0.054543792
WBGene00011830	-0.447035275	7	3.39E+01	-0.391240958
WBGene00011831	-0.440087879	9	8.21E+01	-0.417665329
WBGene00011832	-0.586941083	16	2.42E+04	-0.530809327
WBGene00004152	0.23933057	12	5.85E-02	-0.134893295

WBGene00011833	-0.161674927	9	4.98E+00	-0.027037748
WBGene00011834	-0.186693317	11	1.04E+01	-0.149871769
WBGene00002072	0.36684541	5	6.63E-02	0.121148556
WBGene00011835	0.434679158	12	4.85E-03	0.360241208
WBGene00003509	-0.243166329	5	3.48E+00	-0.411020754
WBGene00011836	-0.071003071	15	4.66E+00	-0.370356519
WBGene00050898	0	1	5.26E-01	-0.049693791
WBGene00011837	0	5	7.18E-01	-0.003211807
WBGene00008552	-0.024496026	2	6.25E-01	0.007235711
WBGene00008551	-0.000745127	11	1.15E+00	0.738968803
WBGene00077514	0.003838638	1	5.21E-01	0
WBGene00008550	-0.040301629	4	8.32E-01	-0.149769349
WBGene00000539	-0.434575395	5	1.21E+01	-0.085436024
WBGene00006167	-0.288938858	6	6.55E+00	-0.027601984
WBGene00006166	-9.65E-05	4	6.65E-01	-6.32E-05
WBGene00007283	-0.308736911	4	3.74E+00	-0.251544666
WBGene00007282	-0.384890787	15	5.89E+02	-0.380207141
WBGene00001645	0.54063434	14	5.60E-04	0.57449777
WBGene00007281	-0.280509785	8	1.19E+01	0.092123741
WBGene00007279	-0.004806922	1	5.34E-01	-0.000303473
WBGene00011403	-0.097532802	4	1.15E+00	0.00368389
WBGene00011402	-0.092467981	7	1.80E+00	0.053684825
WBGene00005270	-0.018819302	4	7.38E-01	-0.015064096
WBGene00005269	-0.117527198	2	8.91E-01	0.140715806
WBGene00005268	0.371522931	4	8.29E-02	0.40398028
WBGene00004910	0.573088655	13	5.39E-04	0.027070477
WBGene00011404	0.234157921	5	1.57E-01	0.81155322
WBGene00009830	0.939582111	11	1.67E-05	0.793547895
WBGene00009831	0.494674945	13	1.57E-03	0.732932109
WBGene00006189	0.119474007	4	3.40E-01	0.780799369
WBGene00009829	0.368739246	10	1.86E-02	0.870738358
WBGene00009833	0.773276582	8	7.53E-04	0.090918039
WBGene00044203	1	7	6.60E-06	1
WBGene00011383	0.092214855	8	3.89E-01	0.317183912
WBGene00001716	-0.41940851	4	6.96E+00	0.460327633
WBGene00011381	-0.16428425	13	1.25E+01	0.150480402
WBGene00011382	0.809433616	21	1.23E-07	0.752449181
WBGene00000554	0.973758892	7	2.64E-04	0.833366441
WBGene00010109	0.051876873	5	5.12E-01	0.398069888
WBGene00000727	-0.245777248	6	4.76E+00	-0.258842753
WBGene00010108	-0.000525835	4	6.66E-01	0.2263381
WBGene00000728	0.220667826	5	1.71E-01	0.091695264
WBGene00010526	-0.959567961	4	1.43E+02	-0.673454212
WBGene00194783	-0.868049983	2	1.56E+01	-0.671849217
WBGene00003535	-2	6	9.75E+04	-2
WBGene00010523	0.202462808	3	2.37E-01	-0.005210466
WBGene00003537	-0.435771379	6	1.94E+01	-0.291303778

WBGene00003536	-1	9	3.55E+04	-0.599438001
WBGene00003538	-0.304575518	5	5.19E+00	-0.645830729
WBGene00010524	-0.645342027	15	3.27E+04	-0.263316886
WBGene00010525	0.207629018	5	1.86E-01	0.488380168
WBGene00001712	1	2	6.27E-03	1
WBGene00000951	0.649180658	12	3.16E-04	0.864505213
WBGene00000955	0.138890104	9	2.42E-01	0.624893654
WBGene00077782	-0.166581643	5	2.12E+00	0.409066548
WBGene00010191	0.279402043	8	6.98E-02	0.481035837
WBGene00010192	0.802265517	7	1.09E-03	1
WBGene00003248	-0.069263337	7	1.49E+00	0.097189698
WBGene00000729	0.038433307	3	5.13E-01	0.016249563
WBGene00011709	0.161421002	6	2.35E-01	1
WBGene00006486	0.056582556	16	6.69E-01	0.11259016
WBGene00000007	-0.360655661	11	8.20E+01	-0.079863375
WBGene00003539	-0.670845041	8	4.26E+02	-0.371437762
WBGene00003540	-0.497533483	6	3.06E+01	-0.028848366
WBGene00003541	-0.224376376	9	9.36E+00	-0.153882916
WBGene00011710	-0.22412711	3	1.77E+00	-0.103741036
WBGene00194784	-0.298312684	1	1.26E+00	0.274955371
WBGene00011715	-0.059614318	2	7.14E-01	-0.709946069
WBGene00000730	-0.014607528	4	7.21E-01	-0.008281362
WBGene00005227	-0.601098473	7	1.21E+02	-0.326910473
WBGene00011712	-0.295661681	5	4.90E+00	0.293198328
WBGene00000982	-0.008211092	3	6.39E-01	0.049571977
WBGene00194712	-0.479915358	4	9.76E+00	-0.570784623
WBGene00011713	-0.68117933	14	2.86E+04	-0.436683985
WBGene00044019	0.002355062	11	1.11E+00	0.010448401
WBGene00008330	-0.152008516	5	1.93E+00	-0.229978966
WBGene00008339	-0.124328732	11	4.99E+00	-0.922446081
WBGene00008331	0.453831243	16	1.03E-03	0.002764844
WBGene00008332	-0.257609284	5	3.82E+00	-0.571316897
WBGene00008335	-0.725687864	8	7.04E+02	-1
WBGene00008334	-0.952192599	5	3.48E+02	-0.475241191
WBGene00008333	-0.607615805	7	1.28E+02	-0.637531365
WBGene00008336	-0.993574097	10	5.65E+04	-1
WBGene00008340	-1	5	1.03E+03	-0.795544382
WBGene00008338	0.202089783	11	1.04E-01	0.017776555
WBGene00009532	0.127998689	43	7.73E-02	-0.272270673
WBGene00009533	-0.021072586	5	8.23E-01	0.075284172
WBGene00077536	-0.136044424	3	1.17E+00	-0.26349301
WBGene00189933	-0.521912266	5	2.13E+01	-0.910378952
WBGene00304181	-0.055812006	1	6.20E-01	-0.141969707
WBGene00009534	0.150997961	7	2.40E-01	-0.137921607
WBGene00005976	-0.536395301	5	2.34E+01	0.239142651
WBGene00001110	-0.292242636	11	3.65E+01	-0.287862027
WBGene00005977	-0.039999344	6	1.04E+00	-0.217979429

WBGene00005978	-0.165060024	3	1.34E+00	0.153045099
WBGene00004064	-0.0773917	30	4.63E+01	0.448284876
WBGene00003691	0.154990369	6	2.47E-01	0.782931356
WBGene00003658	-0.265897777	10	1.95E+01	0.556394014
WBGene00005981	-0.081976925	3	9.04E-01	-0.005330012
WBGene00005979	-0.157686862	3	1.29E+00	-0.136546775
WBGene00005973	-0.350961072	13	1.60E+02	-0.283842294
WBGene00005971	-0.120248955	4	1.30E+00	-0.395435745
WBGene00005975	-0.028605325	5	8.64E-01	-0.011836438
WBGene00009388	-0.935010582	4	1.25E+02	-0.649831258
WBGene00000983	-0.344217809	4	4.57E+00	-0.146049634
WBGene00009383	-1	8	2.30E+04	-1
WBGene00009384	-0.174495482	4	1.76E+00	-0.200123559
WBGene00009385	-0.306258086	9	2.13E+01	-0.588039512
WBGene00009386	-0.439126156	8	5.08E+01	0.076814967
WBGene00003762	0.562201732	3	4.36E-02	0.776956095
WBGene00009387	0.312369614	3	1.41E-01	0.25213126
WBGene00009389	0.524277039	13	1.05E-03	0.737223929
WBGene00012100	0.783722514	26	9.37E-09	0.842545937
WBGene00000249	0.557871591	5	1.92E-02	0.436886085
WBGene00004806	0.238569138	17	3.00E-02	0.546789074
WBGene00012101	0.259999804	2	2.11E-01	0.6375074
WBGene00000449	0.713821282	10	4.24E-04	0.566448676
WBGene00009791	-0.240418614	6	4.58E+00	0.102491955
WBGene00009790	-0.475176774	14	1.44E+03	-0.361671421
WBGene00000146	0.357730671	34	6.33E-05	0.218023902
WBGene00012281	0.767198073	7	1.46E-03	0.121325241
WBGene00012280	-0.144040032	7	2.76E+00	-0.031891116
WBGene00012282	0.006238086	8	8.55E-01	0.253599398
WBGene00000453	-0.346810992	19	1.54E+03	-0.325774644
WBGene00006609	-0.024279323	26	6.74E+00	0.055504737
WBGene00000907	-0.125353552	20	2.78E+01	-0.250977084
WBGene00004359	-0.20286904	7	4.49E+00	-0.115962786
WBGene00007118	0.092032412	9	3.88E-01	-0.08020049
WBGene00007117	-0.027877205	5	8.60E-01	-0.028273194
WBGene00011436	-0.160800991	59	3.12E+05	-0.037372688
WBGene00011437	-0.269109259	4	3.00E+00	0.088060146
WBGene00011438	-0.832354936	7	8.24E+02	-0.940609455
WBGene00077538	-0.219850416	6	3.93E+00	-0.152171624
WBGene00011439	-0.175334049	2	1.11E+00	0.180154431
WBGene00010075	-0.239246793	5	3.39E+00	0.050249499
WBGene00006373	0.648657187	11	5.24E-04	1
WBGene00004768	0.701055828	10	4.88E-04	0.875872232
WBGene00010077	-0.106155209	14	6.74E+00	0.028354541
WBGene00044631	0.322915821	6	7.14E-02	0.323654969
WBGene00010079	0.855331995	20	9.43E-08	0.536304049
WBGene00010082	2	5	1.96E-05	0.571305092

WBGene00010080	0.102507605	12	3.34E-01	0.055410138
WBGene00010081	-0.029310582	2	6.36E-01	0.11729865
WBGene00014300	-0.230447039	36	2.08E+04	-0.213789167
WBGene00008407	-0.0893994	23	2.18E+01	0.067050233
WBGene00004258	0.742518932	18	2.87E-06	0.753619382
WBGene00008408	0.248213934	4	1.65E-01	0.243365844
WBGene00008409	0.342616575	5	7.76E-02	-0.227137475
WBGene00008410	0.031145569	14	9.17E-01	-0.007305828
WBGene00000731	-0.264559384	9	1.40E+01	-0.158176573
WBGene00011261	0.004065975	44	1.25E+01	-0.108440588
WBGene00011262	0.088354924	7	4.03E-01	-0.304173616
WBGene00014826	0.660005473	10	7.65E-04	-0.154777638
WBGene00011266	-0.529572442	5	2.24E+01	-0.629563491
WBGene00001978	-0.192617184	23	2.23E+02	0.082003379
WBGene00011263	0.729350207	8	1.13E-03	0.736188987
WBGene00011264	-0.428455	6	1.84E+01	-0.189787102
WBGene00011265	-0.226001307	6	4.12E+00	-0.158731002
WBGene00010788	-0.252546753	11	2.28E+01	-0.17524222
WBGene00010789	-0.089683961	9	2.41E+00	-0.257119028
WBGene00010790	-0.0316823	8	1.21E+00	-0.161021737
WBGene00010791	-0.884444275	10	1.71E+04	-0.516609403
WBGene00005967	-0.505820579	5	1.92E+01	-0.194270878
WBGene00010792	-0.916783667	4	1.13E+02	-0.715852112
WBGene00004855	-0.32916817	82	1.59E+13	-0.3054783
WBGene00011270	0.151003174	25	8.56E-02	0.098280809
WBGene00003886	-0.381619533	12	1.60E+02	-0.104098314
WBGene00010284	0.435384702	26	6.17E-05	0.590070963
WBGene00010285	0.634721154	8	2.68E-03	0.839122935
WBGene00010286	-0.365134442	5	7.69E+00	0.018948308
WBGene00138720	0.0369208	4	5.40E-01	0.024652137
WBGene00001466	-0.213567291	3	1.68E+00	0.074685305
WBGene00010289	-0.315200444	9	2.34E+01	-0.478685649
WBGene00010288	0.20882745	14	6.94E-02	0.448797981
WBGene00010290	-0.025155968	7	1.03E+00	0.055162864
WBGene00000781	-0.697516694	9	1.09E+03	-0.024499153
WBGene00003235	-0.191878383	5	2.50E+00	-0.240117324
WBGene00004917	0.606360353	6	8.80E-03	0.7888827
WBGene00004501	0.890984101	10	6.09E-05	-0.01313961
WBGene00008258	0.067401872	4	4.55E-01	0.262199712
WBGene00000876	1	18	1.72E-08	0.879699927
WBGene00008259	0.44049974	7	2.18E-02	0.090990516
WBGene00001553	0.179440659	19	7.03E-02	0.322550638
WBGene00194785	-0.254820864	3	2.04E+00	-0.472218813
WBGene00010204	1	9	9.93E-06	1
WBGene00010205	0.020694374	8	7.49E-01	-0.113232736
WBGene00000073	-0.039212574	11	1.82E+00	0.224944833
WBGene00004032	0.586182739	57	1.37E-12	0.683549168

WBGene00008644	1	14	4.85E-08	0.962880133
WBGene00002241	0.307116726	29	8.71E-04	0.384648559
WBGene00008645	0.114029216	17	2.56E-01	0.21784367
WBGene00008646	-0.125597777	17	1.58E+01	0.127311338
WBGene00001095	-0.113258841	12	5.23E+00	0.116262753
WBGene00008647	-0.071299021	8	1.74E+00	-0.300277148
WBGene00011087	-0.236343537	15	5.96E+01	-0.219539761
WBGene00000533	0.083816382	10	4.22E-01	0.289019445
WBGene00004138	0.799815255	3	1.42E-02	0.575252509
WBGene00011088	-0.207847692	12	1.75E+01	-0.117326566
WBGene00011089	-0.016788152	3	6.65E-01	-0.01608539
WBGene00011090	-0.096578593	6	1.58E+00	-0.117218422
WBGene00011093	0.016177751	4	6.07E-01	-0.067884992
WBGene00011092	-0.020247429	7	9.91E-01	-0.125726948
WBGene00011094	0.031415346	5	5.85E-01	0.034426125
WBGene00011095	-0.379456449	9	4.46E+01	-0.014764718
WBGene00011096	-0.058646452	3	8.10E-01	0.002076153
WBGene00011097	-0.332854015	7	1.32E+01	-0.143889477
WBGene00011099	-1	12	8.17E+06	0.263638153
WBGene00011098	-0.271654465	5	4.19E+00	0.800045851
WBGene00011100	-0.051206063	7	1.28E+00	-0.096994918
WBGene00007547	-0.26619501	9	1.43E+01	0.323067561
WBGene00007546	-0.689172916	9	1.01E+03	-0.46632193
WBGene00003726	-0.079755048	5	1.20E+00	-0.123878492
WBGene00007548	0.133264743	5	3.02E-01	0.186193338
WBGene00007549	-0.183137848	8	4.86E+00	0.192798188
WBGene00195250	-0.043667012	2	6.72E-01	0.497745665
WBGene00007551	-0.78354625	9	2.60E+03	0.088076718
WBGene00007550	-0.265315016	5	4.02E+00	-0.069751003
WBGene00007757	-0.09901725	13	5.15E+00	-0.388179676
WBGene00007753	-0.27778856	18	3.00E+02	0.055646067
WBGene00007755	-0.789228219	12	2.88E+04	-0.363451694
WBGene00000490	-0.182545181	22	1.40E+02	-0.022498293
WBGene00007758	-0.648628049	5	4.84E+01	0.015242533
WBGene00007759	0.178673304	2	2.88E-01	0.81637449
WBGene00007756	0.237490581	24	1.19E-02	0.426109586
WBGene00005592	-0.603578566	10	7.88E+02	-0.368293901
WBGene00000614	-0.08524288	7	1.70E+00	-0.555700108
WBGene00014122	-0.253808162	6	5.06E+00	-0.076759254
WBGene00044790	-0.160079111	9	4.90E+00	-0.254337765
WBGene00014123	-0.268008396	8	1.06E+01	0.04632775
WBGene00014124	0.106496868	9	3.35E-01	0.05404315
WBGene00005082	-0.8137063	5	1.41E+02	0.245842478
WBGene00014125	0.153676582	3	2.98E-01	-0.333182272
WBGene00001088	0.68770042	3	2.41E-02	0.983506551
WBGene00004384	0.312807252	9	4.20E-02	0.496079344
WBGene00014098	-0.120630714	43	1.79E+03	-0.203830712

WBGene00014099	-0.050984123	4	8.84E-01	-0.014476083
WBGene00003057	0.304840815	5	9.91E-02	0.155881832
WBGene00006874	0.441551034	42	3.33E-07	-0.049948396
WBGene00003515	1	49	9.24E-26	0.3256557
WBGene00011450	-0.535884236	2	4.39E+00	-0.770257216
WBGene00011449	-0.257360863	13	4.46E+01	-0.176561007
WBGene00303076	0.308519434	2	1.75E-01	0.185955611
WBGene00004296	-0.07516623	18	7.66E+00	-0.239365698
WBGene00011451	-0.932202999	7	1.88E+03	-0.670133818
WBGene00003075	-0.673122787	8	4.35E+02	-0.696477229
WBGene00303013	-0.398540781	4	6.19E+00	-0.349659268
WBGene00011452	-0.268741605	7	7.75E+00	-0.083493484
WBGene00011453	-0.487518392	6	2.84E+01	-0.486746844
WBGene00006539	-0.283210211	9	1.69E+01	-0.822298673
WBGene00010091	-0.878615928	6	5.11E+02	-0.247672724
WBGene00006677	0.017595413	14	1.12E+00	0.336220013
WBGene00010094	-0.439285423	6	1.99E+01	-0.428734583
WBGene00010093	-0.493162391	16	5.25E+03	-0.211449954
WBGene00044791	0.647290195	4	1.77E-02	0.746275245
WBGene00010098	0.025719056	4	5.75E-01	0.227956151
WBGene00010096	0.150719446	12	1.81E-01	0.094210908
WBGene00010097	0.24274607	9	8.50E-02	-0.013559729
WBGene00005241	-0.228293077	8	7.35E+00	0.171483653
WBGene00001493	0.955728679	20	1.28E-08	0.477126389
WBGene00303048	2	1	1.32E-03	1
WBGene00005202	0.048757535	2	4.72E-01	0.065280052
WBGene00011014	0.699840262	6	4.41E-03	0.803301497
WBGene00011016	0.087584519	7	4.06E-01	0.482739062
WBGene00011017	0.413826014	3	8.76E-02	0.499209724
WBGene00011015	0.673968086	5	9.02E-03	1
WBGene00006668	0.99407124	36	1.41E-14	0.975289741
WBGene00009092	0.577034903	5	1.69E-02	0.268365562
WBGene00004898	-0.011846891	4	7.10E-01	0.128423128
WBGene00009093	-0.321965523	9	2.50E+01	-0.178508748
WBGene00005018	-0.402663024	4	6.33E+00	-0.482988815
WBGene00009094	-0.189061886	18	6.02E+01	-0.260537816
WBGene00009096	-0.459092945	3	5.34E+00	-0.065451507
WBGene00001539	-0.472334715	26	5.50E+05	-0.54962523
WBGene00009097	-1	5	1.80E+03	-0.971881747
WBGene00009095	0.442482023	4	5.57E-02	0.840583653
WBGene00044218	0.185635164	4	2.35E-01	-0.461452013
WBGene00010461	-0.446010984	3	5.02E+00	-0.541518497
WBGene00010474	0.09220898	2	4.00E-01	-0.070275703
WBGene00006669	-0.177113704	23	1.58E+02	-0.146043889
WBGene00010464	-0.317314028	3	2.74E+00	-0.106908098
WBGene00010465	0.042728925	5	5.44E-01	0.389358448
WBGene00303067	0.239616198	1	2.61E-01	-0.000319772

WBGene00010466	0.082970181	5	4.19E-01	0.132187018
WBGene00010467	-0.322459221	5	5.83E+00	-0.243573944
WBGene00010468	-0.828162932	5	1.55E+02	-2
WBGene00010469	-0.258275086	6	5.23E+00	-0.988993371
WBGene00010470	-0.177755582	7	3.65E+00	-0.834099059
WBGene00010473	-0.240413153	4	2.55E+00	-0.181150451
WBGene00010472	-0.070266126	3	8.56E-01	-0.440304632
WBGene00010471	0.380949224	6	4.65E-02	0.019571681
WBGene00008296	-0.142702525	5	1.81E+00	0.313433008
WBGene00008297	-0.357671032	6	1.09E+01	-0.011507839
WBGene00008298	-0.085773124	4	1.07E+00	0.124621733
WBGene00008299	-0.177023346	7	3.63E+00	-0.052586141
WBGene00008300	0.60163447	9	2.30E-03	1
WBGene00045400	0.074856933	3	4.32E-01	0.930812229
WBGene00005249	-0.727139218	5	8.06E+01	0.439446718
WBGene00138721	-0.659853161	14	2.10E+04	-0.440250747
WBGene00008301	-0.569163977	9	3.01E+02	-0.381132934
WBGene00008302	-0.332583409	14	1.81E+02	-0.242885804
WBGene00008303	-0.106757278	7	2.03E+00	-0.339507695
WBGene00008304	-0.164961049	4	1.67E+00	0.094991716
WBGene00009200	0.246415655	26	7.27E-03	0.387328928
WBGene00001179	0.794574558	31	3.03E-10	0.791405604
WBGene00009201	0.762186845	21	3.29E-07	0.85096489
WBGene00000228	0.592683844	29	3.00E-07	0.028044853
WBGene00012242	0.059026304	7	5.14E-01	-0.05288071
WBGene00002133	-0.003521127	21	2.67E+00	0.06526866
WBGene00012244	0.233958644	5	1.57E-01	-0.199592185
WBGene00012243	-0.135471806	20	3.39E+01	0.288601673
WBGene00012245	0.387082553	24	3.57E-04	0.294478081
WBGene00012142	0.351033637	7	4.58E-02	0.165301184
WBGene00012145	0.142983645	3	3.14E-01	0.032359893
WBGene00012143	-0.113681536	4	1.26E+00	-0.085992727
WBGene00012144	0.194523908	8	1.52E-01	0.138216653
WBGene00000285	0.550430839	9	3.84E-03	0.587006871
WBGene00007552	-0.257493632	5	3.82E+00	-0.188174016
WBGene00009721	0.353080726	5	7.25E-02	-0.264428209
WBGene00009722	-0.014543405	5	7.89E-01	-0.067589788
WBGene00009723	-0.329587162	4	4.21E+00	-0.65958816
WBGene00009724	-0.011110609	4	7.07E-01	-0.133588786
WBGene00004759	0.358636015	8	3.38E-02	0.268356792
WBGene00008452	-0.338162921	6	9.43E+00	0.472947669
WBGene00008454	0.16279681	5	2.49E-01	0.283751289
WBGene00001732	0	2	5.69E-01	0.036947694
WBGene00008453	0.29930352	22	4.09E-03	0.398382427
WBGene00007584	0.104655694	6	3.58E-01	0.503748499
WBGene00007590	-0.370043289	6	1.19E+01	-0.298488693
WBGene00007585	0.038456475	5	5.59E-01	-0.03838842

WBGene00007587	1	23	6.17E-15	1
WBGene00007586	2	15	1.63E-15	1
WBGene00303041	0.312535641	3	1.41E-01	0.230455976
WBGene00007588	0.656216624	24	6.47E-07	0.8423874
WBGene00007589	0.248479997	2	2.20E-01	-0.136226305
WBGene00119204	-0.463415659	3	5.45E+00	-0.257110759
WBGene00013853	-0.508260767	5	1.95E+01	-0.568206325
WBGene00013855	-0.539196569	61	9.29E+14	-0.547600231
WBGene00013854	-1	4	4.00E+02	-0.910423068
WBGene00206460	-0.563486932	3	8.73E+00	-0.522148104
WBGene00044198	-0.600713484	4	1.92E+01	-0.173036679
WBGene00006004	-0.009043246	5	7.61E-01	0.088213155
WBGene00010174	-0.232926248	3	1.84E+00	0.377250784
WBGene00001670	-0.067743835	5	1.11E+00	0.009054056
WBGene00189948	0.361405045	3	1.12E-01	0.241700401
WBGene00001671	0.464898624	3	6.89E-02	0.547473278
WBGene00003011	0.358073095	32	1.02E-04	0.487394058
WBGene00195166	0.769945818	6	2.63E-03	0.421085739
WBGene00012277	0.788685945	7	1.22E-03	0.390066965
WBGene00012276	0.59080309	4	2.43E-02	1
WBGene00012278	-0.224390473	3	1.77E+00	0.211072736
WBGene00012279	-0.155054815	7	3.03E+00	-0.533814556
WBGene00006007	-0.009463641	2	5.90E-01	0.010405876
WBGene00010735	0.18409713	41	9.53E-03	0.211645493
WBGene00010734	-0.063994067	5	1.09E+00	-0.02984493
WBGene00010737	0.010511978	2	5.46E-01	0.032673591
WBGene00010736	-0.061028587	26	1.71E+01	0.247683237
WBGene00011242	0.265379773	15	2.60E-02	0.263267512
WBGene00011243	-0.443643286	7	3.30E+01	-0.017230382
WBGene00011244	0	1	5.26E-01	0
WBGene00011245	0	4	6.64E-01	0
WBGene00006222	-0.121514737	8	2.76E+00	-0.10024607
WBGene00006225	-0.119421267	4	1.30E+00	-0.037744436
WBGene00011246	-0.061225968	7	1.39E+00	-0.070667563
WBGene00045336	-0.2193957	5	2.98E+00	-0.005967114
WBGene00045517	0.002488907	1	5.23E-01	0.068598878
WBGene00004442	0.002488907	1	5.23E-01	0.068598878
WBGene00011247	0.010631507	3	5.85E-01	0.049286328
WBGene00011248	0.266407751	5	1.27E-01	0.110251951
WBGene00000984	-0.696875037	8	5.40E+02	-0.622120333
WBGene00007604	-1	8	1.41E+04	-0.947100917
WBGene00000521	-0.32890935	13	1.18E+02	-0.28244394
WBGene00007605	-0.199039886	3	1.57E+00	-0.116519723
WBGene00007609	-0.112419505	3	1.04E+00	-0.011536855
WBGene00007606	-0.118822135	7	2.24E+00	0.166204075
WBGene00007607	0.322301076	5	8.85E-02	0.892003006
WBGene00007608	0.096328748	4	3.87E-01	0.366167082

WBGene00045460	-0.373344264	2	2.36E+00	-0.118733936
WBGene00001675	-0.3594569	9	3.65E+01	0.438829704
WBGene00008936	0.056991059	11	5.82E-01	0.312630246
WBGene00219330	0.310624086	4	1.17E-01	0.85724437
WBGene00006512	0.370430629	7	3.90E-02	0.493336576
WBGene00004738	0.852021199	30	1.09E-10	0.555719715
WBGene00008937	0.075294368	6	4.45E-01	-0.316838836
WBGene00013902	0.701416381	32	2.78E-09	0.760650354
WBGene00013907	0.07775386	3	4.26E-01	0.085678965
WBGene00001429	0.509674853	11	2.72E-03	1
WBGene00013909	0.332284694	5	8.30E-02	0.864538038
WBGene00013908	0.046040321	5	5.32E-01	0.032680604
WBGene00013906	-0.04477943	9	1.54E+00	-0.033981649
WBGene00013905	-0.398075219	9	5.38E+01	-0.352692371
WBGene00013904	-0.574514469	13	3.37E+03	-0.376047701
WBGene00013903	-0.41693862	9	6.50E+01	-0.424346914
WBGene00013910	0.041480181	4	5.26E-01	0.005386587
WBGene00077562	0	4	6.64E-01	-0.07117448
WBGene00013896	0.03018043	5	5.90E-01	0.011131911
WBGene00013897	0.063744143	1	4.37E-01	0.028386779
WBGene00013898	0.348342513	2	1.51E-01	0.186528938
WBGene00013899	0.836903828	9	2.15E-04	1
WBGene00013900	-0.417075053	16	1.52E+03	-0.022512901
WBGene00013901	-0.841087049	15	6.69E+05	-0.136139225
WBGene00008097	-0.294669484	9	1.90E+01	-0.475798632
WBGene00008099	-0.222448522	12	2.10E+01	0.021544592
WBGene00008101	-0.720517274	13	2.47E+04	-0.08859729
WBGene00008100	-0.037216535	12	1.98E+00	0.295945562
WBGene00008102	-0.111277428	6	1.76E+00	-0.223661738
WBGene00011587	-0.190486274	15	2.94E+01	-0.269641813
WBGene00011592	-0.056786533	7	1.34E+00	-0.027329658
WBGene00011591	0.010456564	5	6.71E-01	-0.002736327
WBGene00011589	-0.269694482	13	5.28E+01	0.183675012
WBGene00011590	-0.262855456	16	1.23E+02	-0.235697115
WBGene00011287	0.008226521	12	1.11E+00	0.148141522
WBGene00011283	0.475587544	11	4.08E-03	0.723341142
WBGene00011284	-0.990182277	3	6.51E+01	-0.287277223
WBGene00011285	-0.982569532	5	4.24E+02	-0.395415669
WBGene00011286	-0.035128282	3	7.25E-01	-0.036137699
WBGene00003738	0.261921573	30	2.63E-03	0.009498776
WBGene00010062	-0.185554879	6	3.05E+00	-0.409623912
WBGene00010063	-0.356095165	5	7.25E+00	-0.575671356
WBGene00004150	-0.362160279	12	1.25E+02	-0.400749467
WBGene00011796	-0.133407994	8	3.08E+00	-0.126038276
WBGene00011801	-0.139465212	7	2.66E+00	-0.12034239
WBGene00011800	0.067087888	5	4.64E-01	0.072407558
WBGene00011799	0.001806968	4	6.57E-01	0.002809109

WBGene00011798	0	6	7.76E-01	-0.026412026
WBGene00011797	-0.07246648	6	1.32E+00	-0.255242006
WBGene00001711	-0.153996281	7	3.00E+00	-0.092807711
WBGene00011802	0.462207109	23	8.57E-05	0.293271008
WBGene00194787	-0.081416071	2	7.76E-01	0.244168183
WBGene00219337	0.202658734	3	2.37E-01	-0.076772355
WBGene00004151	0.098482546	2	3.91E-01	-0.061920853
WBGene00001233	0.206298443	5	1.88E-01	0.48135676
WBGene00011307	0.04144032	18	9.29E-01	0.076892608
WBGene00011305	-0.170531527	6	2.73E+00	0.522648914
WBGene00005113	0.251950393	4	1.62E-01	-0.168362508
WBGene00011306	0.095791215	8	3.76E-01	-0.128444802
WBGene00011309	0.180078436	3	2.63E-01	0.232359056
WBGene00003031	-0.425144507	8	4.47E+01	-0.111412754
WBGene00011308	0.302535906	14	1.78E-02	0.375771019
WBGene00004793	0.130414184	29	1.21E-01	0.228506482
WBGene00008851	-0.066832273	9	1.92E+00	-0.101512534
WBGene00138724	-0.175652761	2	1.11E+00	-1
WBGene00001109	-0.175652191	7	3.59E+00	-0.688267954
WBGene00001389	0.08746532	4	4.07E-01	-0.090431828
WBGene00001387	0.085439348	4	4.12E-01	-0.230733137
WBGene00001388	-0.005446952	6	8.07E-01	0.537479384
WBGene00008848	2	17	9.19E-19	2
WBGene00045418	1	11	1.56E-06	0.584091223
WBGene00008849	-0.022476649	7	1.01E+00	0.382189523
WBGene00008850	-0.086992086	6	1.47E+00	-0.020889329
WBGene00001475	0.003722267	52	2.29E+01	0.072901083
WBGene00012335	-0.21265501	3	1.67E+00	0.037357912
WBGene00077565	-0.427411587	4	7.28E+00	0.22941575
WBGene00012336	-0.192935153	6	3.22E+00	0.332666123
WBGene00012337	0.868218587	24	4.48E-09	0.919779337
WBGene00002250	1	11	6.96E-06	0.948939086
WBGene00012339	0.785076022	5	4.38E-03	0.771249712
WBGene00077788	0.765635292	1	5.62E-02	0.35580935
WBGene00005652	-0.000406576	14	1.45E+00	0.294588698
WBGene00009630	1	4	4.44E-04	1
WBGene00007908	0.020207742	18	1.36E+00	0.734840094
WBGene00007907	0.369388034	28	1.97E-04	-0.117044661
WBGene00007909	0.058382749	4	4.79E-01	-0.000317211
WBGene00077698	-0.109299589	6	1.74E+00	0.210620651
WBGene00007910	-0.302371881	6	7.24E+00	-0.077771539
WBGene00003143	0.404573318	30	4.32E-05	0.55730703
WBGene00007150	0.089428467	18	3.90E-01	0.030703485
WBGene00001137	0.9126778	26	3.62E-10	0.414657938
WBGene00219208	0.146555201	3	3.08E-01	1
WBGene00007152	-0.204711463	8	5.92E+00	0.39772852
WBGene00007153	-0.009814359	9	1.08E+00	-0.073990822

WBGene00007154	-0.386592124	47	4.52E+08	-0.289487856
WBGene00011647	0.123809846	63	4.73E-02	0.037112733
WBGene00001874	0.243364605	16	3.18E-02	0.185082457
WBGene00011648	-0.339635933	6	9.53E+00	0.180087204
WBGene00011649	0.002602594	10	1.03E+00	0.167408332
WBGene00005518	0.112063309	6	3.39E-01	0.036255624
WBGene00006311	-0.282619824	10	2.34E+01	0.144964102
WBGene00010187	-0.211343734	3	1.66E+00	0.01826388
WBGene00045488	-0.516260438	8	1.03E+02	-1
WBGene00000732	-0.606453628	10	8.13E+02	-1
WBGene00000733	0.080916505	10	4.36E-01	-0.048172068
WBGene00010188	0.343175199	2	1.54E-01	0.218785772
WBGene00010189	-0.133020969	9	3.73E+00	-0.232465386
WBGene00007929	0.047974141	11	6.47E-01	0.172653652
WBGene00007930	0	2	5.69E-01	0
WBGene00003850	-0.350783887	12	1.08E+02	-0.484086898
WBGene00007931	0.003183206	4	6.52E-01	-0.092409535
WBGene00007932	-0.027003253	11	1.57E+00	0.125144957
WBGene00009337	0.092059013	51	3.18E-01	0.099960801
WBGene00235322	0.384907285	1	1.71E-01	0.453103652
WBGene00007747	0.073939181	3	4.34E-01	-0.019629181
WBGene00007749	0.165590523	12	1.50E-01	0.029533254
WBGene00007748	-0.015669393	5	7.95E-01	0.329025883
WBGene00008217	0.08288919	3	4.16E-01	0.055145778
WBGene00008218	-0.157849099	5	2.00E+00	0.111553811
WBGene00008219	0.223832152	12	7.13E-02	0.167997713
WBGene00000734	-0.014630872	5	7.89E-01	0.034631337
WBGene00005243	-0.072361035	5	1.15E+00	0.164496639
WBGene00005240	-0.022085213	5	8.28E-01	-0.118899036
WBGene00008220	-1	17	3.36E+09	-1
WBGene00006102	-0.068342298	3	8.48E-01	0.007906117
WBGene00003719	-0.395054473	8	3.39E+01	0.10175975
WBGene00008221	-0.194531087	10	8.91E+00	0.047324058
WBGene00008222	-0.403161964	7	2.36E+01	0.367950152
WBGene00006072	0.012304287	7	7.57E-01	-0.0304719
WBGene00008223	-0.31847783	10	3.47E+01	0.024879473
WBGene00006693	0.255378774	18	1.93E-02	0.293812101
WBGene00009347	0.248977267	12	5.17E-02	-0.039061911
WBGene00009349	0.002978964	4	6.53E-01	-0.033954649
WBGene00009350	-0.149581578	7	2.89E+00	0.006197639
WBGene00005203	-0.964988552	2	2.26E+01	-0.051334112
WBGene00006016	-0.372400189	9	4.15E+01	-0.398278896
WBGene00010867	-0.385755178	38	9.77E+06	-0.403492316
WBGene00000789	-1	12	1.15E+07	-0.66635442
WBGene00001554	-0.160113902	6	2.53E+00	-0.238155521
WBGene00010868	0.586477218	19	3.09E-05	0.158699624
WBGene00009979	-0.210372205	6	3.67E+00	0.246123597

WBGene00009980	0.335853782	4	1.01E-01	0.32388285
WBGene00009981	0.183441798	8	1.68E-01	0.322362523
WBGene00009982	-0.13200016	2	9.41E-01	0.041427801
WBGene00009983	-0.296345768	2	1.76E+00	-0.513080451
WBGene00009984	-0.935589412	5	3.12E+02	-0.497309792
WBGene00005719	-0.529695472	4	1.29E+01	-0.022522063
WBGene00005720	-0.126666664	5	1.63E+00	-0.345273969
WBGene00005721	-0.086726854	3	9.25E-01	-0.093789588
WBGene00005096	-0.606350922	5	3.68E+01	-0.398257728
WBGene00005097	-0.400123731	5	9.65E+00	-0.038385451
WBGene00005095	-0.185585385	7	3.90E+00	-0.166617102
WBGene00003222	-0.177830331	12	1.19E+01	-0.054170154
WBGene00000735	-0.125233644	7	2.36E+00	0.050952145
WBGene00086568	-0.114510058	2	8.80E-01	0.074305699
WBGene00012381	-0.32037488	10	3.54E+01	-0.318871039
WBGene00009134	-0.003753101	5	7.35E-01	0.011027603
WBGene00009136	-0.091859098	2	8.08E-01	0.107448344
WBGene00009135	-0.156816514	6	2.47E+00	0.475874516
WBGene00009137	-0.142690903	3	1.20E+00	0.333561409
WBGene00001496	-0.016359957	12	1.52E+00	0.213715313
WBGene00009138	0.047019056	8	5.88E-01	0.090267597
WBGene00009139	-0.311390734	2	1.87E+00	0.131765152
WBGene00011692	0.016544316	14	1.13E+00	0.244174463
WBGene00045340	0.218403665	5	1.74E-01	0.166350185
WBGene00011693	-0.537966211	7	7.20E+01	-0.153287923
WBGene00011695	-0.223277994	9	9.26E+00	-0.311629464
WBGene00011694	-0.585170621	9	3.53E+02	-0.493249086
WBGene00011696	-0.099597167	21	1.96E+01	0.063511225
WBGene00001808	-0.047435966	5	9.77E-01	-0.141553983
WBGene00000233	-0.247512885	49	1.81E+06	-0.04057269
WBGene00050968	-0.225119733	1	1.02E+00	0.19352441
WBGene00011249	-0.5887753	13	4.09E+03	-0.106463205
WBGene00044045	0.234100141	12	6.25E-02	0.396519708
WBGene00008341	0.399836458	8	2.31E-02	0.617998969
WBGene00008342	0.376672809	16	3.61E-03	0.567280228
WBGene00008343	-0.103843132	5	1.41E+00	0.239844694
WBGene00008344	-0.047913472	10	1.79E+00	0.396471747
WBGene00008345	0.066912388	6	4.73E-01	0.242089615
WBGene00000302	-0.043999245	7	1.21E+00	0.553504597
WBGene00008346	-0.456264938	9	9.66E+01	-0.411371502
WBGene00001726	-0.337759881	5	6.43E+00	-0.107336753
WBGene00008224	0.044953441	5	5.36E-01	0.559959121
WBGene00008225	0.476067156	9	8.12E-03	0.8842809
WBGene00000250	0.332954163	7	5.32E-02	0.180751151
WBGene00008226	-0.324877076	5	5.92E+00	-0.64865005
WBGene00008228	-0.394164511	6	1.43E+01	-0.50430042
WBGene00008227	-0.220507239	7	5.20E+00	-0.222893157

WBGene00009985	-0.548627474	1	2.62E+00	-0.19997276
WBGene00045195	0	1	5.26E-01	0
WBGene00009986	0	1	5.26E-01	0
WBGene00077569	-0.31614951	2	1.90E+00	-0.072235849
WBGene00009987	0.048300188	5	5.24E-01	0.209937556
WBGene00009988	0.063214322	7	4.97E-01	0.138572975
WBGene00004328	-0.129678647	9	3.61E+00	-0.245999873
WBGene00001479	-0.454153809	8	5.83E+01	-0.246457544
WBGene00009995	0	2	5.69E-01	-0.159715528
WBGene00009990	0	5	7.18E-01	-0.303219485
WBGene00005089	-0.047906384	4	8.69E-01	-0.029685467
WBGene00009997	0.038825055	3	5.12E-01	0.434529642
WBGene00023419	0.390980441	3	9.75E-02	0.26041076
WBGene00009993	0.567424177	17	1.05E-04	0.400233825
WBGene00009992	0.233345893	6	1.38E-01	-0.030298895
WBGene00009994	-0.1728551	5	2.21E+00	0.169933258
WBGene00009996	0.243081228	14	4.22E-02	0.186335146
WBGene00010426	-0.178552695	13	1.52E+01	-0.107932695
WBGene00044200	-0.270590709	27	4.65E+03	-0.351633418
WBGene00010425	0.755185411	19	1.25E-06	0.273178959
WBGene00010279	0.194010054	17	6.46E-02	0.320467513
WBGene00010280	0.392374415	37	9.09E-06	-0.371611943
WBGene00010281	-0.505588796	12	7.75E+02	-0.255217901
WBGene00010282	-0.514503652	7	5.93E+01	-0.333269364
WBGene00006442	-0.275326659	18	2.87E+02	-0.29353052
WBGene00010283	0.084965519	11	4.18E-01	0.405738531
WBGene00011326	-0.087954092	48	1.04E+03	-0.008603612
WBGene00011328	-0.421611814	23	3.92E+04	-0.200504823
WBGene00011327	-0.003738981	4	6.78E-01	0
WBGene00005987	-0.04270187	5	9.47E-01	0.265332129
WBGene00011329	0.159735273	9	1.96E-01	0.283574669
WBGene00011330	-0.683697632	21	3.66E+06	-0.76597656
WBGene00009426	-0.367367341	10	5.92E+01	-0.11271485
WBGene00009427	-0.583111535	5	3.17E+01	-0.525858535
WBGene00009431	-0.315534619	12	6.88E+01	-0.334720077
WBGene00009430	-0.007016312	1	5.37E-01	-0.019056079
WBGene00009429	-0.61799522	7	1.40E+02	-0.089030896
WBGene00009433	-0.079707475	8	1.88E+00	-0.063201635
WBGene00009434	-0.531530063	7	6.83E+01	-0.412701052
WBGene00009432	-0.680647998	7	2.35E+02	-0.253882045
WBGene00008985	-0.385194508	7	2.03E+01	-0.057963148
WBGene00008986	0.33689879	5	8.05E-02	0.258596756
WBGene00008989	-0.02829457	5	8.62E-01	0.023195457
WBGene00008987	-0.272212672	7	7.98E+00	0.187578899
WBGene00003543	-0.365709706	4	5.15E+00	-0.049706052
WBGene00008988	-0.585323514	6	5.85E+01	-0.263225961
WBGene00009971	-0.218898746	8	6.74E+00	-0.077133871

WBGene00044921	-0.018757267	4	7.38E-01	0.016813906
WBGene00009973	0.233256074	8	1.07E-01	-0.110785345
WBGene00009974	0.391453674	10	1.45E-02	0.548196828
WBGene00009975	0.220799122	30	8.60E-03	0.194112341
WBGene00006684	-0.013686274	8	1.03E+00	-0.152619208
WBGene00009976	0.364438048	21	1.28E-03	0.11639381
WBGene00009977	0.176531707	20	6.86E-02	-0.311819863
WBGene00000447	-0.504943926	7	5.48E+01	-0.243026734
WBGene00010088	-0.407039426	10	9.15E+01	-0.397564604
WBGene00004767	0.003603359	21	2.30E+00	-0.087522865
WBGene00010089	0.273474008	8	7.37E-02	0.218538842
WBGene00003812	-0.09846405	6	1.60E+00	0.054369572
WBGene00006210	-0.224525178	9	9.38E+00	-0.088999961
WBGene00006020	-0.279559147	8	1.18E+01	-0.157256175
WBGene00006019	0.007828378	2	5.52E-01	-0.177780196
WBGene00077439	-0.21893745	1	9.98E-01	-0.006209658
WBGene00005908	-0.185515169	4	1.88E+00	-0.123793555
WBGene00006021	0	2	5.69E-01	0
WBGene00006022	0	3	6.15E-01	0
WBGene00006024	-0.008572585	1	5.40E-01	-0.008402079
WBGene00008627	-0.650257761	16	6.81E+04	-0.5402699
WBGene00008628	-0.875242869	6	4.98E+02	-0.746731653
WBGene00006025	-0.511552049	5	1.99E+01	-0.376541864
WBGene00006027	-0.034120786	3	7.22E-01	-0.141864768
WBGene00006026	0.030796061	5	5.88E-01	-0.044843597
WBGene00006028	-0.159143405	6	2.51E+00	-0.226426601
WBGene00008630	0.077999973	9	4.46E-01	0.004573281
WBGene00008629	-0.330496554	11	5.74E+01	-0.393087148
WBGene00011929	-0.122798322	4	1.32E+00	-0.327536248
WBGene00002259	-0.224908526	5	3.09E+00	0.071203156
WBGene00011930	0.003289983	6	7.57E-01	0.164974991
WBGene00011931	-0.386915917	8	3.15E+01	-0.292009057
WBGene00004997	-2	3	1.06E+03	-0.25270751
WBGene00002260	-0.357592039	3	3.31E+00	-0.015994097
WBGene00011932	0.361243078	16	4.64E-03	0.388543163
WBGene00007362	-0.108161788	8	2.44E+00	-0.080178173
WBGene00007361	0	6	7.76E-01	-0.064933861
WBGene00007360	-0.001411806	2	5.72E-01	0.003368655
WBGene00007364	-0.210354419	4	2.16E+00	-0.143279124
WBGene00007363	-0.006047027	5	7.46E-01	0.088894873
WBGene00007365	-0.000127633	6	7.76E-01	0.114105238
WBGene00007366	-0.121359202	8	2.76E+00	0.112564871
WBGene00001552	-0.489757818	14	1.77E+03	0.083481403
WBGene00006278	-0.386219145	7	2.05E+01	-1
WBGene00006277	-0.147024674	3	1.23E+00	-0.13199793
WBGene00005933	-0.004310021	5	7.38E-01	-0.006255032
WBGene00044114	-0.111824878	8	2.53E+00	-0.104104994

WBGene00044115	-0.084052212	6	1.44E+00	-0.02398812
WBGene00044116	-0.292320997	6	6.72E+00	-0.181360981
WBGene00189947	0	4	6.64E-01	0
WBGene00011185	-0.225380537	10	1.25E+01	-0.345319193
WBGene00011197	0	7	8.38E-01	-0.048828867
WBGene00001062	-0.574255548	6	5.39E+01	-0.261823246
WBGene00005901	-0.805059654	5	1.34E+02	-0.466077299
WBGene00011186	-0.208647793	6	3.62E+00	-0.047602233
WBGene00011187	-0.175579314	3	1.40E+00	0.036198414
WBGene00011188	-0.486043414	2	3.63E+00	-0.17242664
WBGene00011189	0.045101967	5	5.35E-01	0.437206328
WBGene00011190	-0.033152087	7	1.10E+00	-0.098041375
WBGene00011191	-0.435320842	14	8.04E+02	-0.855824645
WBGene00011192	-0.13594029	4	1.42E+00	0.064682042
WBGene00011193	-0.060826726	6	1.22E+00	0.074421036
WBGene00011194	-0.005922099	2	5.82E-01	0.009813464
WBGene00011195	0.009621122	2	5.48E-01	-0.055605205
WBGene00011196	-0.007132661	25	4.02E+00	0.000670379
WBGene00012057	0	6	7.76E-01	0.027189444
WBGene00045401	-0.219165921	7	5.14E+00	-0.526156262
WBGene00001310	0.08583319	5	4.11E-01	0.239436505
WBGene00010259	0.530840526	66	7.21E-13	0.569803875
WBGene00010262	2	6	9.73E-06	1
WBGene00010260	1	13	3.14E-09	0.913152081
WBGene00000097	-0.24561838	3	1.95E+00	-0.106053976
WBGene00001311	-0.08093596	2	7.75E-01	0.016499765
WBGene00010261	-0.185196709	4	1.87E+00	-0.000518452
WBGene00003474	0	1	5.26E-01	0
WBGene00011622	0	2	5.69E-01	0
WBGene00077573	0	2	5.69E-01	-0.066979458
WBGene00011623	-0.114699212	2	8.81E-01	-0.071323605
WBGene00011624	-0.510191103	7	5.72E+01	-0.406644427
WBGene00002093	0.126256707	2	3.51E-01	0.31677465
WBGene00011625	0.379299809	13	7.57E-03	0.324274881
WBGene00011626	0	7	8.38E-01	0.033987782
WBGene00050929	0	7	8.38E-01	-0.003438556
WBGene00010249	-0.006187562	21	2.82E+00	0.029583781
WBGene00010250	-0.32970861	17	5.29E+02	-0.282677869
WBGene00304203	-0.313243711	5	5.49E+00	0.054847318
WBGene00045355	-0.507438076	9	1.62E+02	-0.304391443
WBGene00044081	-0.076879859	2	7.63E-01	-0.006634277
WBGene00008393	-0.093902218	5	1.32E+00	-0.096809029
WBGene00044080	0	2	5.69E-01	-0.026415313
WBGene00008394	-0.156964823	3	1.29E+00	-0.248950971
WBGene00045405	0.023462719	6	6.52E-01	0.055162438
WBGene00045406	0.004695207	2	5.59E-01	-0.25087872
WBGene00008392	-0.520745862	6	3.63E+01	0.485183141

WBGene00001864	0.384289344	6	4.54E-02	0.183488979
WBGene00008390	0.537945233	3	4.88E-02	0.467312164
WBGene00008395	0.261190708	6	1.13E-01	-0.24395921
WBGene00008389	0.112268868	4	3.54E-01	0.170390932
WBGene00008388	0.130248132	3	3.33E-01	0.315224959
WBGene00044082	0.157575885	3	2.93E-01	-0.013233372
WBGene00008396	-0.415098966	50	6.07E+09	-1
WBGene00044201	-0.306000552	15	1.75E+02	-0.394174941
WBGene00010432	0.105831256	6	3.55E-01	0.54189801
WBGene00003916	0.54595186	73	1.63E-14	0.425928801
WBGene00007085	2	1	6.41E-03	0.332162596
WBGene00007082	0.75560384	12	8.13E-05	0.207905262
WBGene00007083	-0.087882159	6	1.48E+00	-0.53704392
WBGene00011364	-0.111138638	15	8.65E+00	-0.315348099
WBGene00005104	-0.236343699	6	4.44E+00	-0.213633131
WBGene00011362	-0.471252246	9	1.12E+02	-0.348587743
WBGene00011363	-0.092027977	5	1.30E+00	-0.241483191
WBGene00013875	-0.333563091	7	1.33E+01	-0.044432711
WBGene00013874	-0.260295432	9	1.34E+01	-0.195077299
WBGene00013873	-0.13162828	25	8.34E+01	0.096736537
WBGene00013876	0.305644806	7	6.67E-02	0.322525798
WBGene00013879	-0.095189608	6	1.57E+00	-0.077053035
WBGene00006613	-0.054171662	8	1.49E+00	-0.005390756
WBGene00013877	0.160528508	25	6.79E-02	0.128708073
WBGene00013878	0.317301316	17	7.74E-03	0.220449083
WBGene00011793	0.008497437	6	7.28E-01	-0.053244906
WBGene00006261	-0.031480413	6	9.79E-01	-0.18604713
WBGene00011795	0.419409305	5	4.71E-02	-0.528390972
WBGene00011794	0.119659217	31	1.54E-01	0.157067665
WBGene00010510	0.000326071	14	1.43E+00	-0.013234352
WBGene00044109	-0.329941663	7	1.29E+01	-0.439129808
WBGene00010511	0	6	7.76E-01	0
WBGene00010512	0	1	5.26E-01	0
WBGene00010513	0	1	5.26E-01	0
WBGene00010515	-0.0221853	4	7.52E-01	-0.004750676
WBGene00010514	0	2	5.69E-01	0
WBGene00010516	0	3	6.15E-01	-0.045154635
WBGene00009596	-0.444012855	9	8.54E+01	-0.11546666
WBGene00009597	-0.089193091	6	1.50E+00	-0.153210026
WBGene00009599	0.084020732	3	4.14E-01	-0.202794307
WBGene00009600	-0.06469473	4	9.54E-01	0.026993368
WBGene00009601	-0.03668696	4	8.16E-01	-0.057777242
WBGene00009602	-0.245739663	3	1.95E+00	-0.532973226
WBGene00009603	-0.901604638	11	4.99E+04	-1
WBGene00044002	-0.893340533	6	5.69E+02	-0.687352051
WBGene00009604	-0.388415014	2	2.50E+00	-0.179092987
WBGene00009605	-0.006011962	10	1.13E+00	-0.372028824

WBGene00009606	-0.761121132	10	4.43E+03	-0.290571605
WBGene00008788	-0.92311436	6	7.09E+02	-1
WBGene00206501	-0.111580649	3	1.04E+00	-0.141758482
WBGene00008789	-0.443245089	10	1.36E+02	-0.275756081
WBGene00008796	-0.074853618	3	8.74E-01	-0.053750158
WBGene00008790	0.181111188	2	2.85E-01	0.020573238
WBGene00008792	-0.078702809	2	7.68E-01	0.031658832
WBGene00045331	-0.529618701	4	1.29E+01	-0.161833584
WBGene00008793	-0.135223633	14	1.03E+01	-0.207349449
WBGene00008794	-0.007395636	2	5.85E-01	0
WBGene00008797	0	2	5.69E-01	-0.067097111
WBGene00045490	0	2	5.69E-01	-0.066882213
WBGene00008798	-0.004913963	4	6.83E-01	-0.329378452
WBGene00008795	-0.389273144	7	2.10E+01	-0.787926348
WBGene00009802	-0.061375435	1	6.30E-01	-0.01020464
WBGene00009803	-0.352143877	5	7.06E+00	0.604928708
WBGene00044193	-0.187069444	4	1.89E+00	-0.102087265
WBGene00044194	0.25940252	5	1.33E-01	0.250421215
WBGene00009804	0.320907821	6	7.25E-02	0.551957214
WBGene00009805	0.015195525	2	5.37E-01	0.203211649
WBGene00219324	-0.066393993	4	9.63E-01	0.044155577
WBGene00009806	-0.100821076	5	1.38E+00	-0.085562265
WBGene00009807	-0.015124099	3	6.60E-01	0.058126337
WBGene00009809	-0.376734777	5	8.29E+00	0.039141195
WBGene00009808	-0.026942241	5	8.55E-01	-0.035858459
WBGene00044112	0	3	6.15E-01	0.083294311
WBGene00009810	-0.087122599	4	1.08E+00	-0.148256549
WBGene00009811	-0.291876637	13	7.14E+01	-0.231840623
WBGene00013024	1	32	5.04E-19	1
WBGene00013025	0.835293419	17	1.04E-06	0.55040443
WBGene00013026	0.598654219	14	2.41E-04	-0.188331418
WBGene00000877	0.438909001	7	2.21E-02	0.173526122
WBGene00013027	0.277167457	4	1.41E-01	-0.053961763
WBGene00006775	0.098548075	12	3.52E-01	-0.279813524
WBGene00010143	0.180542176	9	1.59E-01	0.047994087
WBGene00007618	-0.285308222	5	4.58E+00	-0.265584535
WBGene00007613	-0.024346185	3	6.89E-01	0.057517508
WBGene00077576	0	1	5.26E-01	-0.009223184
WBGene00007614	0.135493523	6	2.85E-01	0.192595337
WBGene00003834	0.339942385	17	5.24E-03	0.144115495
WBGene00007619	0.293377611	3	1.54E-01	-0.089094572
WBGene00003835	0.362221689	6	5.34E-02	0.008507877
WBGene00007615	0.295649319	8	6.02E-02	0.525299645
WBGene00000985	0.29685773	3	1.52E-01	0.308190783
WBGene00003922	1	7	1.69E-05	0.908567967
WBGene00007616	0.784114146	5	4.41E-03	-0.284450113
WBGene00007617	0.677538598	7	3.07E-03	-0.046907355

WBGene00009079	-0.12323299	9	3.38E+00	0.170046469
WBGene00001170	-0.488555262	8	8.00E+01	-0.000616513
WBGene00009081	0.100155309	19	3.17E-01	0.094384676
WBGene00009082	0.207988079	10	1.08E-01	-0.212874502
WBGene00006465	-0.116441053	11	4.54E+00	-0.019821983
WBGene00009084	0.424721611	13	4.08E-03	0.113622171
WBGene00000257	0.072138661	16	5.19E-01	0.08763006
WBGene00000592	-0.210638733	13	2.36E+01	-0.061457897
WBGene00008590	-0.319859866	5	5.73E+00	-0.454086456
WBGene00008591	-0.538630266	3	7.76E+00	-0.391015377
WBGene00008592	-0.132746846	2	9.44E-01	0.464193849
WBGene00023515	-0.097036585	4	1.14E+00	-0.064343129
WBGene00008594	-0.363149309	13	1.89E+02	-0.478331051
WBGene00008593	-0.567470376	6	5.13E+01	-0.896911005
WBGene00008595	-0.281108495	6	6.19E+00	-0.214662391
WBGene00008596	-0.677093075	9	8.91E+02	-0.796428984
WBGene00008597	-0.548884018	10	4.33E+02	-0.408141255
WBGene00010980	-0.834078015	6	3.67E+02	-0.56455764
WBGene00194788	-0.054142398	1	6.17E-01	-0.023184624
WBGene00010977	-0.305644012	13	8.61E+01	-0.58100449
WBGene00010978	-0.058149043	3	8.08E-01	-0.420073652
WBGene00235335	-0.87128749	2	1.58E+01	-0.215440968
WBGene00010976	0.008095964	7	7.84E-01	-0.454039747
WBGene00077577	-0.134057123	3	1.16E+00	-0.138576382
WBGene00010979	-0.232437235	25	9.70E+02	-0.189654302
WBGene00050937	0.41267779	4	6.58E-02	0.394888948
WBGene00194707	0.813834863	6	1.90E-03	0.543217087
WBGene00194706	0.76123933	9	4.61E-04	1
WBGene00008263	0.376211162	1	1.75E-01	0.927230751
WBGene00008262	0.053453826	1	4.50E-01	0.141008825
WBGene00001834	0.082999797	8	4.23E-01	0.844904821
WBGene00008265	-0.138697825	30	2.71E+02	0.168887921
WBGene00007049	0.299649011	9	4.80E-02	0.044385519
WBGene00008266	0.568254543	14	3.75E-04	0.135147014
WBGene00008270	-0.17316811	18	4.52E+01	0.020096468
WBGene00005204	-0.001209645	4	6.69E-01	-0.051582224
WBGene00008267	-1	11	2.89E+05	-0.801091823
WBGene00008268	0.044054937	5	5.39E-01	-0.13562159
WBGene00008269	-0.347912791	9	3.25E+01	-1
WBGene00001519	0.139257677	40	5.65E-02	0.171248088
WBGene00012741	-0.590295803	12	2.28E+03	-1
WBGene00003982	-0.069223286	12	2.98E+00	0.035454014
WBGene00011250	0.247812264	7	1.08E-01	0.510018645
WBGene00011251	0.481471375	14	1.32E-03	0.408096976
WBGene00011252	0.243563495	4	1.70E-01	0.034913664
WBGene00011253	0.480154589	7	1.57E-02	0.099148818
WBGene00009650	-0.002711869	4	6.74E-01	-0.002281916

WBGene00001986	0.257986901	27	4.66E-03	0.053584769
WBGene00044191	-0.173701716	11	8.95E+00	-0.225535974
WBGene00009652	-0.57057288	7	9.44E+01	-0.733381237
WBGene00045516	-0.030911659	4	7.90E-01	-0.104933161
WBGene00008319	-0.624424646	2	6.16E+00	-0.431513449
WBGene00004337	0.476434029	18	3.54E-04	0.411475345
WBGene00004060	0.26025675	25	5.99E-03	0.424619145
WBGene00008320	-0.102390775	15	7.56E+00	0.024784131
WBGene00005242	-0.349031905	7	1.51E+01	0.2333021
WBGene00008146	0.138808577	5	2.91E-01	0.263656353
WBGene00008141	-0.226464935	5	3.12E+00	-0.356837658
WBGene00008142	0.529675156	14	6.56E-04	0.691886384
WBGene00008143	0.608785839	6	8.64E-03	0.407968288
WBGene00000915	2	16	1.31E-13	0.960759098
WBGene00044180	1	3	1.78E-03	0.619647735
WBGene00008144	1	9	4.23E-07	1
WBGene00006836	1	17	1.37E-08	0.544366605
WBGene00008145	0.198818667	23	3.26E-02	0.222212651
WBGene00219318	-0.057561755	5	1.04E+00	0.106438377
WBGene00011134	-0.311354832	5	5.42E+00	-0.401304886
WBGene00011136	-0.503587214	6	3.20E+01	-0.19722002
WBGene00011133	-1	7	1.90E+04	-0.388299921
WBGene00011135	-0.015052391	3	6.60E-01	-0.200467718
WBGene00011132	-1	6	1.76E+04	-1
WBGene00011137	-0.023053616	5	8.34E-01	-0.235838451
WBGene00013046	-0.527220643	2	4.25E+00	-0.366202106
WBGene00013047	-0.605866947	3	1.07E+01	-1
WBGene00003861	-1	5	5.71E+02	-0.326776307
WBGene00006795	-0.402885521	7	2.35E+01	-0.011952626
WBGene00013048	-0.004056646	3	6.27E-01	0.049613137
WBGene00013049	-0.293676511	10	2.64E+01	-0.168725734
WBGene00013050	-0.329336398	12	8.21E+01	-0.296923333
WBGene00044275	-0.152181739	1	8.21E-01	-0.347749425
WBGene00001817	0.12468047	18	2.06E-01	-0.022875552
WBGene00013052	0.166735212	10	1.70E-01	-0.070357948
WBGene00013053	0.013468959	5	6.58E-01	0.014652622
WBGene00013054	0.212203971	3	2.26E-01	0.318522046
WBGene00013055	0.803966015	9	3.00E-04	0.787682297
WBGene00008183	0.208557074	87	2.50E-05	0.201164604
WBGene00012291	0.05941669	14	6.08E-01	-0.1808212
WBGene00012293	0.150996431	14	1.61E-01	0.191029206
WBGene00012294	-0.056950568	6	1.18E+00	0.246957656
WBGene00004336	0.727164475	64	1.44E-17	0.674850307
WBGene00013883	0.326930336	17	6.56E-03	0.365675497
WBGene00001540	0.146394859	16	1.55E-01	0.62433348
WBGene00013884	1	9	1.70E-05	0.544212158
WBGene00013886	2	4	7.85E-05	2

WBGene00050943	3	7	9.74E-11	2
WBGene00013887	0.322359806	1	2.05E-01	0.394783542
WBGene00013889	0	1	5.26E-01	0
WBGene00013888	0	2	5.69E-01	0
WBGene00013890	0	4	6.64E-01	0
WBGene00044274	0	2	5.69E-01	0
WBGene00044272	-0.088643892	3	9.33E-01	0
WBGene00010379	0	1	5.26E-01	0
WBGene00010377	0	2	5.69E-01	0
WBGene00010378	0	4	6.64E-01	0
WBGene00044273	0	2	5.69E-01	0
WBGene00044271	-0.612461424	1	3.15E+00	0.040864088
WBGene00010380	-0.100741823	9	2.70E+00	0.272455305
WBGene00010381	0.174252415	3	2.71E-01	0.083777301
WBGene00010383	0.036534087	11	7.41E-01	0.08602292
WBGene00010382	-0.08697396	6	1.47E+00	0.179264422
WBGene00010386	0.37788793	61	2.96E-08	-0.019833154
WBGene00010385	0.660394624	36	1.26E-09	0.297270945
WBGene00010387	0.10098193	4	3.77E-01	0.0792517
WBGene00012364	0.147967505	9	2.21E-01	-0.266576906
WBGene00005211	0.041412956	3	5.06E-01	-0.052672849
WBGene00005212	-0.050331206	3	7.79E-01	0.008234712
WBGene00044176	0.870872645	10	7.59E-05	0.848614125
WBGene00044177	-0.220048275	7	5.18E+00	0.030528757
WBGene00044178	-0.018922393	1	5.56E-01	-0.058728927
WBGene00001852	-0.010334303	5	7.68E-01	0.028494536
WBGene00044179	0	2	5.69E-01	0
WBGene00206370	0.004812095	2	5.58E-01	0.007275688
WBGene00008522	0.110982009	2	3.72E-01	0.110516568
WBGene00008520	-0.124395153	12	6.03E+00	-0.238860383
WBGene00001701	-0.208930528	4	2.14E+00	0.06955227
WBGene00006960	-0.110944201	9	2.99E+00	-0.103288159
WBGene00008521	0.344499033	12	1.53E-02	0.282716629
WBGene00011318	0.370751447	23	6.74E-04	0.235747117
WBGene00011319	0.540660486	6	1.43E-02	-0.014998374
WBGene00011320	-0.080175509	3	8.97E-01	-0.438858231
WBGene00011321	0.166787546	8	1.96E-01	-0.069322016
WBGene00011322	0.104424827	6	3.59E-01	-0.108612573
WBGene00011325	0.975465411	3	6.22E-03	0.831106981
WBGene00004485	2	3	3.16E-05	2
WBGene00001423	2	12	9.11E-10	0.861275602
WBGene00011323	1	12	1.63E-08	1
WBGene00011324	1	5	8.69E-04	0.949211072
WBGene00003775	0.818839696	21	1.01E-07	0.821258705
WBGene00008832	1	9	1.72E-06	2
WBGene00008833	0.173472896	6	2.15E-01	0.170790978
WBGene00008835	-0.668239936	6	1.08E+02	0.066184783

WBGene00008834	0.256426471	8	8.62E-02	0.017727143
WBGene00000562	-0.023551296	9	1.24E+00	-0.060992799
WBGene00077582	0.054755866	3	4.75E-01	-0.030728412
WBGene00007714	-0.7035186	7	2.84E+02	-0.348446079
WBGene00004747	0.150768906	49	2.19E-02	0.17879831
WBGene00007716	-0.621096217	7	1.43E+02	-0.385568376
WBGene00007717	-0.028087584	4	7.77E-01	-0.055629047
WBGene00050940	-0.231218696	1	1.03E+00	-0.333388747
WBGene00003155	-0.278596835	22	1.12E+03	0.159332457
WBGene00007722	0.435356212	4	5.80E-02	0.488369046
WBGene00004308	0.179471462	10	1.48E-01	0.102678272
WBGene00007719	0.083276977	1	4.13E-01	-0.014828202
WBGene00007718	0.452783189	7	1.97E-02	0.060500137
WBGene00007720	0.422515937	4	6.23E-02	0.604661772
WBGene00001021	0.6610971	2	4.57E-02	0.815953672
WBGene00006808	0.280211446	20	8.73E-03	0.223806333
WBGene00007237	0.00185641	10	1.04E+00	0.170025703
WBGene00007236	0.28417118	5	1.13E-01	-0.041260631
WBGene00007235	0.741535142	10	3.13E-04	0.54304311
WBGene00007234	0.114181704	8	3.18E-01	-0.012718752
WBGene00007240	0.307162841	3	1.45E-01	-0.316157245
WBGene00007233	0.331902747	3	1.29E-01	0.437194155
WBGene00077583	0.327378855	1	2.02E-01	0.452082992
WBGene00007232	0.18770626	2	2.78E-01	0.176495141
WBGene00007231	0.01126108	1	5.09E-01	0.008279309
WBGene00044658	-0.012999614	3	6.53E-01	-0.201636524
WBGene00007241	-0.399601783	4	6.23E+00	-0.321418271
WBGene00005969	0.009225794	4	6.31E-01	-0.033755209
WBGene00007230	-0.369649403	17	1.05E+03	-0.155800053
WBGene00007239	0.353533804	8	3.54E-02	0.560338527
WBGene00013566	-0.318390218	4	3.95E+00	-0.047170984
WBGene00011342	0	6	7.76E-01	-0.050625682
WBGene00011341	0	1	5.26E-01	0
WBGene00077585	-0.055306135	2	7.02E-01	-0.017590698
WBGene00011339	-0.586537872	15	1.32E+04	-0.774481495
WBGene00011340	-0.559135467	11	8.62E+02	-0.417267123
WBGene00005615	-0.639987111	6	8.76E+01	-0.239119032
WBGene00005658	-0.135217529	5	1.73E+00	0.132307249
WBGene00006215	0.053118392	6	5.24E-01	0.132560048
WBGene00010685	0.16656057	10	1.70E-01	0.523423533
WBGene00010684	-0.26960454	10	2.03E+01	0.044253672
WBGene00010686	-0.149381523	17	2.38E+01	-0.402873164
WBGene00010687	0.041425619	11	6.99E-01	0.212968648
WBGene00202514	0.143735707	2	3.29E-01	-0.150524205
WBGene00011665	-0.453547723	3	5.20E+00	0.176074169
WBGene00011666	-0.077623446	2	7.65E-01	0.093119948
WBGene00005278	0.035278022	6	5.98E-01	0.46022714

WBGene00006110	0.177235998	5	2.27E-01	-0.054602436
WBGene00023506	-0.038572883	4	8.24E-01	-0.105981846
WBGene00011668	0.010368943	2	5.47E-01	-0.013765466
WBGene00011669	-0.020075733	3	6.76E-01	-0.001475828
WBGene00011670	-0.048064822	7	1.25E+00	0.274668405
WBGene00013567	1	10	8.40E-06	0.571351249
WBGene00013568	2	2	6.23E-04	1
WBGene00000883	0.723884468	6	3.69E-03	-0.028436625
WBGene00013569	0.823887648	11	6.58E-05	0.486580681
WBGene00000879	1	6	2.88E-04	0.133490009
WBGene00013573	-0.101106935	3	9.89E-01	-0.844817049
WBGene00004037	0.160695541	26	6.33E-02	0.604194136
WBGene00045402	0.602361146	2	5.71E-02	0.771385728
WBGene00005748	-0.630001264	4	2.26E+01	-0.371388126
WBGene00013572	-0.157770416	7	3.09E+00	0.053484297
WBGene00013570	0	4	6.64E-01	0
WBGene00008058	0	2	5.69E-01	0
WBGene00008059	0	4	6.64E-01	0
WBGene00005536	0	3	6.15E-01	-0.000945035
WBGene00005538	0.009122879	1	5.13E-01	0
WBGene00005537	-0.426670848	9	7.17E+01	-0.088865523
WBGene00008057	-0.452127539	6	2.19E+01	-0.174850145
WBGene00005771	-0.374810846	5	8.18E+00	0.005903512
WBGene00005761	-0.089522901	3	9.37E-01	0.00603361
WBGene00005762	-0.34569421	5	6.77E+00	-0.068546218
WBGene00005760	-0.04727423	7	1.24E+00	-0.254979016
WBGene00008056	0	5	7.18E-01	-0.030165559
WBGene00005759	-0.271741784	3	2.21E+00	-0.120966305
WBGene00005758	-0.203503532	5	2.69E+00	-0.021193771
WBGene00010799	-0.031869834	8	1.21E+00	-0.064965114
WBGene00002211	-0.028754553	11	1.61E+00	0.01951701
WBGene00005106	-1	8	2.49E+04	-1
WBGene00010798	-0.133191121	4	1.40E+00	-0.105054657
WBGene00010797	-0.075433477	2	7.59E-01	-0.102775443
WBGene00010802	-0.277435575	9	1.60E+01	0.156713308
WBGene00010800	-0.279979892	5	4.42E+00	-0.071647249
WBGene00010801	0.1457738	3	3.09E-01	0.740802868
WBGene00010803	0.190886284	5	2.08E-01	0.221717898
WBGene00045337	-0.031865214	4	7.94E-01	0.205229873
WBGene00045338	-0.420341734	6	1.73E+01	-0.306640043
WBGene00045339	-0.507376027	7	5.59E+01	-0.235768379
WBGene00005769	-0.144593286	3	1.21E+00	-0.096383682
WBGene00011697	-0.147896063	5	1.88E+00	0.039280241
WBGene00005763	-0.328117746	6	8.75E+00	-0.37145909
WBGene00005764	-0.107293649	7	2.04E+00	-0.219044951
WBGene00005766	-0.039997767	4	8.31E-01	-0.025196992
WBGene00005942	-0.552430768	7	8.12E+01	-0.357925297

WBGene00011698	-0.524666288	10	3.32E+02	-0.501650034
WBGene00011699	-0.009969564	5	7.66E-01	-0.015573865
WBGene00006153	0	8	9.06E-01	-0.232213329
WBGene00000783	0.10540069	7	3.50E-01	-0.140818224
WBGene00005939	-0.40271279	4	6.34E+00	-0.227538772
WBGene00077588	-0.172931505	4	1.75E+00	-0.125685459
WBGene00012072	-0.00197849	4	6.72E-01	-0.095089923
WBGene00014195	0	3	6.15E-01	0
WBGene00014190	-0.175145073	6	2.83E+00	-0.540929392
WBGene00014191	0	3	6.15E-01	-0.006307988
WBGene00014192	-0.111251227	11	4.27E+00	-0.173454923
WBGene00045515	0.050937485	5	5.16E-01	-0.003676421
WBGene00014193	-0.559231384	7	8.59E+01	-0.428575778
WBGene00014194	-0.197822481	4	2.01E+00	-0.001912975
WBGene00005499	-0.222809007	8	6.99E+00	-0.062638953
WBGene00005860	-0.105365636	3	1.01E+00	-0.036240351
WBGene00006953	-0.378850933	13	2.34E+02	-0.517496069
WBGene00044086	-0.043797845	4	8.49E-01	-0.206298232
WBGene00010355	-0.056505468	5	1.04E+00	-0.110874169
WBGene00006954	-0.651815264	10	1.34E+03	-0.316648757
WBGene00007804	-0.363879284	6	1.14E+01	-0.656943985
WBGene00007806	-0.016625538	6	8.77E-01	-0.191674286
WBGene00007805	0.022138608	2	5.23E-01	0
WBGene00005949	-0.275753218	4	3.11E+00	-0.903029784
WBGene00007807	-0.138266677	8	3.22E+00	-0.019363831
WBGene00001150	-0.043936482	10	1.71E+00	-0.045202569
WBGene00011150	-0.231105588	4	2.42E+00	-0.00180159
WBGene00005275	-0.015081428	3	6.60E-01	-0.041011435
WBGene00005340	0.113882827	3	3.60E-01	-0.006351185
WBGene00005457	-0.424364177	5	1.13E+01	-0.079517743
WBGene00000986	-0.051575189	8	1.45E+00	0.336502777
WBGene00006147	-0.410188343	11	1.48E+02	-0.037942168
WBGene00006157	0.013814781	1	5.06E-01	0.103361036
WBGene00005386	0.169557618	10	1.65E-01	0.454858593
WBGene00011538	0.52120498	10	3.50E-03	0.622715502
WBGene00000868	0.477461333	8	1.14E-02	0.807547158
WBGene00005931	0.069228937	3	4.44E-01	0.12459344
WBGene00044759	0	2	5.69E-01	0
WBGene00005519	-0.003995239	2	5.78E-01	-0.006882219
WBGene00011539	-0.474843017	14	1.43E+03	-0.489773582
WBGene00005464	-0.039793827	3	7.41E-01	-0.051442392
WBGene00005463	0.031840621	15	9.53E-01	0.032359167
WBGene00011541	0.111163965	3	3.64E-01	0.103301369
WBGene00005470	-0.003712459	5	7.35E-01	0.06510986
WBGene00005471	-0.253914007	8	9.30E+00	0.117740951
WBGene00011540	0.439677444	4	5.66E-02	0.832818719
WBGene00011542	-0.080122903	9	2.19E+00	0.509944223

WBGene00012533	-0.290346068	9	1.82E+01	0.020244369
WBGene00194708	0.6107711	3	3.47E-02	1
WBGene00012070	0.041176541	13	7.61E-01	0.630961613
WBGene00044783	-0.983593598	2	2.43E+01	-1
WBGene00202495	-0.981766854	3	6.25E+01	-0.484426395
WBGene00044206	-0.250954614	5	3.66E+00	-0.269445169
WBGene00005446	0.096734852	4	3.86E-01	0.006157323
WBGene00012069	0	3	6.15E-01	0.149801469
WBGene00235133	0	1	5.26E-01	0.020609266
WBGene00005780	-0.188301683	5	2.44E+00	0.1909737
WBGene00006133	-0.356058995	3	3.29E+00	0.164851061
WBGene00011948	0.135881554	24	1.29E-01	0.392677198
WBGene00004153	0.043697594	3	5.00E-01	0.025901656
WBGene00001054	0.921582294	20	2.53E-08	0.640404201
WBGene00007368	0.620634938	8	3.05E-03	0.474702081
WBGene00007367	-0.071633489	3	8.61E-01	0.155818163
WBGene00007369	-0.271943756	7	7.96E+00	0.671132625
WBGene00005768	0.007098558	4	6.38E-01	0.01498398
WBGene00007370	-0.034414459	6	1.00E+00	0.142776083
WBGene00005428	0.018305506	4	5.99E-01	-0.118594929
WBGene00005429	0.009921665	4	6.28E-01	0.072189916
WBGene00007372	1	73	3.74E-37	1
WBGene00004452	2	3	3.66E-05	1
WBGene00008997	0.794731592	24	2.51E-08	0.873093601
WBGene00008993	0.193386108	4	2.25E-01	0.315244709
WBGene00005481	0.242912966	5	1.48E-01	0.248957955
WBGene00219316	0.259944332	13	3.85E-02	0.348056258
WBGene00008992	-0.626906264	3	1.18E+01	0.121378546
WBGene00008994	-0.001479742	3	6.19E-01	0.011889878
WBGene00008995	0.076439468	21	5.07E-01	0.104404099
WBGene00008996	0.164439487	6	2.30E-01	0.109521196
WBGene00000057	1	27	1.20E-11	1
WBGene00009221	0.818573748	13	1.90E-05	0.675440113
WBGene00003079	0.288564632	2	1.89E-01	0.520707527
WBGene00009222	0.484796962	8	1.06E-02	0.463573329
WBGene00009225	0.609506279	19	2.00E-05	0.375391851
WBGene00009223	0.503789355	6	1.88E-02	1
WBGene00006446	0.535906805	8	6.64E-03	0.49529271
WBGene00044188	0.040987566	1	4.67E-01	0.026379316
WBGene00009224	0.047575998	15	7.48E-01	-0.021888297
WBGene00007164	-0.171965054	3	1.38E+00	0.011284261
WBGene00206462	-0.007276978	1	5.38E-01	0
WBGene00007166	-0.040824145	7	1.18E+00	0.339681596
WBGene00007163	-0.103252017	6	1.66E+00	0.003275299
WBGene00007162	-0.203756706	21	1.71E+02	-0.033449614
WBGene00006080	-0.490352178	10	2.28E+02	-0.660144492
WBGene00006289	-0.052760501	4	8.93E-01	-0.48552956

WBGene00008321	-0.099480075	9	2.66E+00	-0.107087724
WBGene00008326	-0.083278882	4	1.06E+00	-0.26530302
WBGene00006275	-0.313595244	6	7.86E+00	-0.189751949
WBGene00008327	-0.169714141	4	1.72E+00	-0.155315704
WBGene00008322	-0.225761565	4	2.35E+00	-0.059762267
WBGene00006090	-0.239624451	3	1.90E+00	-0.139036686
WBGene00008324	0.378844458	4	7.96E-02	0.368317654
WBGene00008323	-0.456924136	3	5.28E+00	-0.215736096
WBGene00005705	0.143424068	5	2.83E-01	0.412314502
WBGene00009978	0.036779251	42	2.95E+00	0.119560065
WBGene00206516	0.172886513	2	2.94E-01	0.260756565
WBGene00010599	-0.162600491	8	4.02E+00	-0.291120512
WBGene00077450	-0.114245641	6	1.80E+00	-0.267571709
WBGene00003641	-0.39287926	4	6.00E+00	-0.571829513
WBGene00003642	-0.313122639	11	4.67E+01	-0.450833811
WBGene00010600	-0.358089518	7	1.62E+01	-0.507603326
WBGene00010602	-0.114370792	5	1.51E+00	-0.107438028
WBGene00010601	-0.593751193	3	1.01E+01	-0.320272467
WBGene00010603	-0.203824071	6	3.49E+00	-0.417127124
WBGene00005920	0.066366087	3	4.50E-01	-0.02958712
WBGene00010604	-0.198747159	7	4.34E+00	-0.218337861
WBGene00003643	-0.111154537	6	1.76E+00	-0.069955497
WBGene00006686	-0.052351346	11	2.12E+00	-0.152399104
WBGene00012397	-0.229890162	5	3.19E+00	-0.183679789
WBGene00006156	-0.283077484	5	4.51E+00	-0.283155514
WBGene00012398	-0.27300383	9	1.53E+01	-0.022911006
WBGene00012399	0.013892353	4	6.14E-01	0.046266081
WBGene00012400	-0.017236659	3	6.67E-01	0.108052999
WBGene00005357	0	5	7.18E-01	0
WBGene00012401	-0.079422184	4	1.04E+00	0.06298703
WBGene00012402	-0.555273214	6	4.69E+01	-0.012319386
WBGene000050915	-0.392344477	5	9.17E+00	-0.09402795
WBGene00006103	-0.561451627	7	8.75E+01	-0.210511617
WBGene00011942	0.101833683	8	3.56E-01	-0.073325838
WBGene00006093	-0.468613244	16	3.52E+03	-0.285902914
WBGene00006085	-0.583101411	9	3.46E+02	-0.639306812
WBGene00006086	-0.501929771	9	1.53E+02	-1
WBGene00011943	-0.70979979	5	7.21E+01	-0.410421891
WBGene00006074	-0.000705874	6	7.80E-01	-0.003652991
WBGene00006108	-0.02607498	3	6.95E-01	0
WBGene00006073	-0.00095269	6	7.81E-01	0
WBGene00006076	-0.208282183	9	7.96E+00	-0.540485285
WBGene00006077	-0.449491306	8	5.59E+01	0.370343551
WBGene00001813	0.309842951	17	8.80E-03	0.149038483
WBGene00010184	0.948517443	3	7.07E-03	0.225668561
WBGene00010185	0.01434253	1	5.05E-01	-0.012685868
WBGene00003650	-0.367194674	19	2.27E+03	-0.084046945

WBGene00010186	-0.235062079	7	5.87E+00	-0.196988457
WBGene00012056	0.079768773	6	4.30E-01	0.059958757
WBGene00012043	-0.26215239	5	3.94E+00	-0.039014809
WBGene00012044	-0.02387603	1	5.64E-01	-0.005233709
WBGene00012045	-0.668267845	6	1.08E+02	-0.314755873
WBGene00012046	-0.111869641	6	1.77E+00	-0.215996873
WBGene00012049	-0.044550321	5	9.58E-01	-0.052631128
WBGene00012050	-0.718352224	5	7.62E+01	-0.85126683
WBGene00012052	-0.149681214	2	1.01E+00	-0.058950519
WBGene00012051	0.059020754	6	5.02E-01	0.254554684
WBGene00005105	-0.987949082	10	5.32E+04	-0.455705003
WBGene00206503	-1	3	1.72E+02	-0.522946112
WBGene00012054	-0.358873499	7	1.64E+01	-0.044771323
WBGene00012055	-0.362942786	9	3.78E+01	-0.454099722
WBGene00010016	-0.111566065	3	1.04E+00	-0.226060861
WBGene00010017	0.0026036	5	7.06E-01	-0.079187742
WBGene00010018	-0.308668491	5	5.33E+00	-0.220176717
WBGene00010019	0	1	5.26E-01	0
WBGene00000014	-0.020668798	2	6.15E-01	0
WBGene00010020	-0.195855833	4	1.99E+00	-0.281501072
WBGene00010021	-0.005387889	2	5.81E-01	0.019553139
WBGene00010022	-0.035005166	5	9.01E-01	-0.604237899
WBGene00010023	-0.006767659	3	6.35E-01	0.02326252
WBGene00044105	-0.105293817	4	1.20E+00	0.044264557
WBGene00010026	-0.082925853	3	9.08E-01	-0.001809577
WBGene00010025	0.038970876	4	5.34E-01	0
WBGene00005365	-0.199395151	5	2.62E+00	-0.059802189
WBGene00005363	0.013859845	4	6.15E-01	-0.007988053
WBGene00005364	-0.07160164	3	8.61E-01	-0.082652769
WBGene00010688	0	4	6.64E-01	0
WBGene00005503	0.019242596	3	5.61E-01	-0.236106093
WBGene00005497	-0.067047007	4	9.67E-01	0.024587124
WBGene00011513	0.138351833	9	2.43E-01	-0.040884449
WBGene00006122	0.484129419	4	4.41E-02	1
WBGene00006121	2	4	6.16E-06	3
WBGene00003692	2	9	2.92E-09	2
WBGene00003674	1	12	8.19E-07	0.862187283
WBGene00011515	-0.227687112	10	1.28E+01	0.464601665
WBGene00011516	-0.669296561	3	1.44E+01	0.312083698
WBGene00011517	-0.244074426	7	6.32E+00	-0.26832501
WBGene00011519	-0.001360564	2	5.72E-01	-0.004427216
WBGene00011518	-0.022371547	2	6.19E-01	-0.056086845
WBGene00011520	-0.046905143	8	1.39E+00	-0.14722739
WBGene00006124	-0.215202228	4	2.22E+00	-0.232104679
WBGene00011521	-0.105895294	6	1.70E+00	-0.578873858
WBGene00009417	-0.055936058	6	1.17E+00	-0.295513464
WBGene00009418	-0.34396023	6	9.84E+00	-0.469964878

WBGene00009420	0	1	5.26E-01	0
WBGene00009421	-0.107062847	4	1.21E+00	-0.036617792
WBGene00001786	-0.022012745	3	6.82E-01	-0.025247212
WBGene00009422	-0.282950233	8	1.21E+01	-0.379890845
WBGene00009423	-0.708101235	5	7.13E+01	-0.584352382
WBGene00000412	-0.260356285	6	5.31E+00	-0.201634509
WBGene00003698	-0.27237183	3	2.22E+00	-0.158199819
WBGene00009424	-0.116025206	8	2.62E+00	-0.173817756
WBGene00011505	-0.238657653	8	8.08E+00	-0.48159461
WBGene00011506	-0.782304167	6	2.51E+02	-0.804136124
WBGene00005773	-1	9	2.78E+04	-0.739329063
WBGene00005802	-0.032859866	5	8.88E-01	-0.089382649
WBGene00005800	0	3	6.15E-01	0
WBGene00005806	0.017419475	2	5.32E-01	0.047731254
WBGene00005803	0.128650199	3	3.35E-01	-0.024836066
WBGene00005804	0	3	6.15E-01	-0.005125267
WBGene00005401	-0.015849392	4	7.26E-01	-0.235818985
WBGene00009485	-0.291648132	9	1.84E+01	0.302269747
WBGene00005514	-0.307801831	7	1.07E+01	-0.270294308
WBGene00005513	-0.434925765	6	1.93E+01	-0.010218187
WBGene00009486	-0.002202932	4	6.72E-01	-0.009323808
WBGene00005686	-0.079702556	8	1.88E+00	0.048879042
WBGene00005685	-0.189360104	5	2.45E+00	-0.402133944
WBGene00009487	-0.001689313	3	6.20E-01	-0.002562686
WBGene00009488	-0.439778541	8	5.11E+01	-0.525583647
WBGene00009490	-0.532585178	7	6.89E+01	-0.674396023
WBGene00009489	-0.119738199	17	1.43E+01	-0.128544052
WBGene00009491	0	3	6.15E-01	0
WBGene00007381	-0.208210097	11	1.35E+01	-0.083717886
WBGene00007383	0	2	5.69E-01	0
WBGene00007382	0	3	6.15E-01	0
WBGene00003640	-0.068478932	7	1.48E+00	-0.025034344
WBGene00003653	-0.07496273	5	1.17E+00	-0.114102885
WBGene00006262	-0.883171275	8	2.98E+03	-0.315511101
WBGene00006264	0	5	7.18E-01	-0.002031402
WBGene00006263	-0.735047274	7	3.68E+02	-0.366432217
WBGene00005934	-0.488808434	9	1.34E+02	-0.534576175
WBGene00005935	0.002516989	2	5.63E-01	0.090274926
WBGene00011687	0.402477518	7	2.99E-02	0.622436579
WBGene00011688	0.393468976	17	2.09E-03	0.206608366
WBGene00011689	0.037632738	14	8.35E-01	-0.093787984
WBGene00077607	-0.676641533	17	2.07E+05	-0.319351066
WBGene00011691	-0.052982346	9	1.67E+00	-0.189192411
WBGene00001878	-0.665539826	2	7.21E+00	0.013128502
WBGene00001877	-0.584164713	2	5.28E+00	-0.128093875
WBGene00001876	-0.132806345	2	9.44E-01	0.008371166
WBGene00001875	-0.239739149	1	1.06E+00	0.024732991

WBGene00050899	0.02096465	7	7.05E-01	-0.037482694
WBGene00013961	-0.076035801	3	8.79E-01	-0.008382328
WBGene00006234	-0.020416265	2	6.15E-01	0
WBGene00008821	-0.022846628	7	1.01E+00	-0.148926839
WBGene00008822	-0.100587543	6	1.63E+00	0.080536741
WBGene00008823	-0.220413536	3	1.74E+00	-0.190934352
WBGene00008824	-0.012547753	3	6.52E-01	-0.030225307
WBGene00008825	-0.212079366	6	3.71E+00	-0.310169611
WBGene00219414	-0.23583296	3	1.87E+00	-0.148368598
WBGene00008826	-0.497054156	6	3.05E+01	-0.320129855
WBGene00045513	-0.022395298	1	5.62E-01	-0.019529271
WBGene00008829	-0.195054638	9	6.97E+00	-0.461569536
WBGene00008830	-0.678167123	5	5.87E+01	-0.592109989
WBGene00005598	-0.357769368	3	3.31E+00	-0.41684908
WBGene00008831	-0.060420086	4	9.32E-01	-0.096109946
WBGene00005616	-0.013535276	3	6.55E-01	-0.085978007
WBGene00009046	-0.407556642	4	6.51E+00	-0.370327334
WBGene00009049	0.243041096	9	8.48E-02	0.43591298
WBGene00006075	-0.409564962	9	6.04E+01	0.059532537
WBGene00009048	-0.030250259	5	8.73E-01	-0.190791338
WBGene00009706	-0.524521207	10	3.31E+02	-0.363146613
WBGene00009707	0.003907105	4	6.50E-01	0.023537362
WBGene00006092	-0.167532224	3	1.35E+00	-0.042331927
WBGene00006158	-0.561056816	4	1.54E+01	-0.349813519
WBGene00004809	-0.095921872	4	1.14E+00	-0.141217695
WBGene00003701	0.262995179	9	6.94E-02	-0.056929515
WBGene00044661	-0.586585315	4	1.77E+01	-0.220261163
WBGene00044659	0.019423332	4	5.96E-01	0.00741038
WBGene00009709	0.00187747	4	6.57E-01	0.121140923
WBGene00009708	-0.085655513	11	3.15E+00	-0.070271776
WBGene00009710	0	1	5.26E-01	0
WBGene00008631	0.00456865	1	5.19E-01	0
WBGene00008632	-0.00409729	2	5.78E-01	0.005090626
WBGene00008633	-0.054998613	3	7.96E-01	0.06254047
WBGene00008634	-0.300123225	13	7.99E+01	-0.146349926
WBGene00006280	-0.010001191	5	7.66E-01	0.01043544
WBGene00006154	-0.025420489	2	6.27E-01	-0.002971495
WBGene00006155	0.133940102	5	3.01E-01	0.034267795
WBGene00045507	0.017678385	2	5.32E-01	-0.025947539
WBGene00006161	-0.003205958	1	5.31E-01	-0.001310208
WBGene00008636	-0.066073029	3	8.39E-01	-0.000934851
WBGene00008637	-0.081140388	4	1.05E+00	0.04371118
WBGene00006160	0	2	5.69E-01	0.016851483
WBGene00006162	-0.029724841	3	7.07E-01	0
WBGene00010591	-0.09180888	2	8.07E-01	-0.117348443
WBGene00010589	-0.244062909	9	1.14E+01	-0.258319887
WBGene00006159	0.001040514	3	6.12E-01	-0.000852632

WBGene00010590	0	3	6.15E-01	0
WBGene00010588	-0.003544954	2	5.77E-01	-0.00331636
WBGene00005482	-0.140604853	6	2.19E+00	-0.062216171
WBGene00005486	-0.024665061	4	7.63E-01	-0.05729698
WBGene00005484	-0.010657658	4	7.05E-01	-0.066726597
WBGene00008671	-0.274239775	7	8.12E+00	-1
WBGene00008672	-0.7686487	8	1.04E+03	-1
WBGene00008673	-0.124022388	5	1.61E+00	-0.156370391
WBGene00045510	0	2	5.69E-01	0
WBGene00045511	-0.175783386	7	3.59E+00	-0.239911969
WBGene00008675	-0.760927491	5	1.00E+02	-0.488602945
WBGene00008676	-0.247692536	7	6.51E+00	-0.13933701
WBGene00044184	-0.876543078	5	2.13E+02	-0.650276908
WBGene00008677	0.002128335	5	7.08E-01	-0.096302601
WBGene00008680	0.059187821	5	4.89E-01	-0.170237847
WBGene00001591	0.028358047	7	6.63E-01	0.02407516
WBGene00008678	-0.293216102	6	6.76E+00	-0.185004922
WBGene00008679	-0.467226423	5	1.49E+01	-0.274373438
WBGene00009028	-0.071888693	9	2.02E+00	-0.008003485
WBGene00009033	0.251447937	2	2.18E-01	-0.077109173
WBGene00001770	-0.010358283	8	9.96E-01	0.468233263
WBGene00009029	0.012755938	1	5.07E-01	0
WBGene00009030	0.081934911	2	4.16E-01	0.003271484
WBGene00005317	0.125504199	3	3.40E-01	0.085189697
WBGene00009031	-0.442781244	13	5.59E+02	-0.626311671
WBGene00005323	0	3	6.15E-01	-0.071048824
WBGene00005315	0	3	6.15E-01	0
WBGene00001545	-0.226718373	21	2.76E+02	-0.181294154
WBGene00009032	0.044036582	9	6.28E-01	-0.039333863
WBGene00011750	-0.625112699	9	5.28E+02	-0.426271397
WBGene00003717	-0.144367141	9	4.18E+00	-0.133321791
WBGene00011751	-0.433504494	2	2.97E+00	-0.359491391
WBGene00011752	-0.000718436	5	7.21E-01	-0.012798403
WBGene00011753	-0.061801075	3	8.22E-01	-0.156321717
WBGene00044205	-0.003144541	3	6.24E-01	-0.053514423
WBGene00011754	-0.277967617	12	4.26E+01	-0.321698286
WBGene00009226	-0.463157576	8	6.34E+01	-0.235272438
WBGene00009227	-0.0977314	5	1.35E+00	0.031015584
WBGene00009229	-0.039336139	6	1.04E+00	-0.006395348
WBGene00009228	-0.452557948	6	2.19E+01	-0.405753852
WBGene00007829	-0.184855101	10	8.02E+00	-0.152043446
WBGene00007831	-0.914073071	4	1.11E+02	-0.567556146
WBGene00044106	-0.244427812	3	1.94E+00	-0.017302111
WBGene00007832	-0.012650906	2	5.97E-01	0.117016029
WBGene000206534	-0.424541483	4	7.16E+00	-0.226281621
WBGene00007833	-0.293492702	18	3.99E+02	-0.768468802
WBGene00007834	-0.912336799	12	1.38E+05	-0.882188243

WBGene00007835	-0.285643782	16	1.78E+02	-0.458271342
WBGene00006247	-0.479627806	10	2.03E+02	-0.278731989
WBGene00005395	-0.133134372	2	9.45E-01	0.038817903
WBGene00010216	0.000492601	4	6.62E-01	-0.478666399
WBGene00005383	0	2	5.69E-01	-0.000570002
WBGene00005834	0.156198611	4	2.77E-01	0.914064285
WBGene00010214	-0.135040151	3	1.16E+00	0.00499984
WBGene00010215	0.401025583	8	2.29E-02	0.312170367
WBGene00012349	-0.006785362	7	8.86E-01	0.05247367
WBGene00012346	-0.038851813	7	1.16E+00	0.649133953
WBGene00012348	0.130177037	16	2.01E-01	0.2368913
WBGene00012347	0.789850766	17	2.28E-06	0.94762019
WBGene00005745	-0.018192891	4	7.35E-01	-0.106363229
WBGene00008724	-0.091486067	13	4.65E+00	0.035764489
WBGene00008725	-0.055659725	4	9.07E-01	-0.093539038
WBGene00005577	-0.111825413	10	3.60E+00	-0.194745531
WBGene00001792	-0.173214895	7	3.52E+00	-0.132451861
WBGene00005140	-0.331973653	7	1.31E+01	0.072620964
WBGene00008726	0.104640644	4	3.70E-01	0.449744477
WBGene00008727	0.024974439	6	6.45E-01	0.093346549
WBGene00008728	-0.001304854	6	7.83E-01	-0.026468911
WBGene00045357	0.005702658	11	1.07E+00	0.272284679
WBGene00006375	-0.109990762	16	1.01E+01	0.181956107
WBGene00009148	-0.366946769	8	2.62E+01	-0.041775706
WBGene00005361	-0.531158884	4	1.30E+01	-0.029100835
WBGene00006120	-0.03222572	2	6.43E-01	0.067452495
WBGene00009154	-0.188841017	13	1.75E+01	-0.163451466
WBGene00005795	-0.009054605	2	5.89E-01	-0.00028623
WBGene00005776	-0.501094905	10	2.56E+02	-0.331629631
WBGene00009149	-0.394758444	24	3.29E+04	-0.504467186
WBGene00006134	-0.316353712	5	5.60E+00	-0.170149482
WBGene00009150	-0.354153059	5	7.16E+00	-0.252413057
WBGene00009151	0.036954157	4	5.40E-01	-0.00348165
WBGene00009152	-0.019454532	4	7.41E-01	-0.06181965
WBGene00009153	-1	11	1.11E+06	-1
WBGene00005358	-0.216601729	4	2.23E+00	0.031273787
WBGene00011618	-1	8	1.93E+04	-0.67086793
WBGene00011621	-0.344185858	5	6.71E+00	-0.285183612
WBGene00006082	-0.147714611	3	1.23E+00	0.040166006
WBGene00006083	0	3	6.15E-01	0.144404638
WBGene00005359	0	2	5.69E-01	0
WBGene00005707	-0.027705104	5	8.59E-01	-0.021907813
WBGene00005355	0	4	6.64E-01	0
WBGene00005782	0	3	6.15E-01	0
WBGene00011620	-0.253907339	4	2.75E+00	-0.195428182
WBGene00077616	-0.963616092	2	2.25E+01	-0.355674175
WBGene00010202	-0.276128316	1	1.18E+00	-0.823788472

WBGene00010203	-0.088229552	4	1.09E+00	-0.0942114
WBGene00005356	-0.14682868	3	1.23E+00	-0.169088732
WBGene00012520	-0.151120465	4	1.55E+00	-0.056650532
WBGene00012516	-0.209428857	5	2.80E+00	-0.585294318
WBGene00012518	-0.739567695	4	4.18E+01	-0.437183659
WBGene00005353	0	1	5.26E-01	-0.002709461
WBGene00009469	-0.087763407	14	5.16E+00	-0.029124819
WBGene00044189	0.288489577	2	1.89E-01	-0.224338102
WBGene00003644	-0.628449243	6	8.05E+01	-0.260304345
WBGene00005654	0.005403704	8	8.62E-01	0.015665739
WBGene00009471	-0.489881791	21	6.53E+04	-0.355050216
WBGene00009470	-0.872099628	12	8.28E+04	-1
WBGene00005781	-0.210867994	5	2.82E+00	-0.635749464
WBGene00009473	-0.074074371	7	1.55E+00	-0.252182519
WBGene00219326	-0.767382015	6	2.25E+02	-0.767837566
WBGene00000782	-0.643644237	9	6.37E+02	0.007524667
WBGene00202504	-0.102856795	2	8.42E-01	0.199510947
WBGene00012521	-0.002469744	3	6.22E-01	0.003169826
WBGene00012522	0.059566266	17	6.53E-01	0.046767848
WBGene00012523	-0.593996014	9	3.86E+02	-0.413212019
WBGene00012524	-0.038535092	45	8.10E+01	-0.110396993
WBGene00005708	-0.222363954	5	3.04E+00	-0.04526997
WBGene00006471	0.133362264	4	3.15E-01	-0.294628955
WBGene00006196	-0.204779087	6	3.52E+00	-0.071488665
WBGene00006198	0.068806026	9	4.90E-01	0.004434386
WBGene00011396	-0.215663338	6	3.81E+00	0.010671008
WBGene00006197	-0.028026338	6	9.54E-01	0.166860241
WBGene00005820	-0.041677898	4	8.39E-01	0.17056196
WBGene00005475	0.546901402	4	3.10E-02	0.462576215
WBGene00000776	0.807044289	9	2.90E-04	0.497054631
WBGene00045356	0.858936692	6	1.36E-03	1
WBGene00011397	0.008503096	9	8.98E-01	0.335345947
WBGene00012525	0	4	6.64E-01	-0.03125127
WBGene00005801	-0.05228803	4	8.90E-01	-0.048437727
WBGene00194799	-0.005307027	1	5.35E-01	0.013533273
WBGene00050904	0.530844121	11	2.12E-03	0.895013383
WBGene00013490	0.459943602	4	5.05E-02	0.383805919
WBGene00012308	0.240644591	13	5.01E-02	0.493559677
WBGene00012309	-0.136632681	2	9.58E-01	-0.12758813
WBGene00005099	0.067115334	13	5.34E-01	-0.383499327
WBGene00005823	0.180948067	4	2.41E-01	0.120419615
WBGene00012310	1	17	1.01E-09	0.652306036
WBGene00005824	-0.002943384	4	6.75E-01	0.055312991
WBGene00086565	2	4	2.67E-05	2
WBGene00012311	0.025047269	2	5.17E-01	0.410871118
WBGene00012312	0.223392402	1	2.74E-01	0.757170053
WBGene00219308	0.797207312	3	1.44E-02	1

WBGene00012313	0.269540995	1	2.39E-01	0.192577514
WBGene00012314	0	6	7.76E-01	0
WBGene00235081	0	2	5.69E-01	0
WBGene00045380	0.04441796	9	6.26E-01	0.053758562
WBGene00077464	0	8	9.06E-01	-0.033919922
WBGene00013491	0	2	5.69E-01	0
WBGene00235339	0	6	7.76E-01	0
WBGene00044185	-0.417830192	4	6.90E+00	-0.847897766
WBGene00008817	-0.762929849	6	2.17E+02	-0.640401774
WBGene00006125	-0.02387603	1	5.64E-01	-0.020821871
WBGene00008816	-0.5855579	1	2.91E+00	-0.526731017
WBGene00008814	-0.008008131	3	6.38E-01	-0.243862656
WBGene00008815	-0.193192773	5	2.52E+00	-0.223054946
WBGene00005791	-0.081272451	3	9.01E-01	-0.170931703
WBGene00005783	-0.302376146	8	1.45E+01	-0.757076633
WBGene00005790	-0.123968827	4	1.33E+00	-0.051106432
WBGene00023505	-0.038580961	5	9.22E-01	-0.069984046
WBGene00005789	0.031780011	8	6.77E-01	-0.052623667
WBGene00008818	-0.171211113	5	2.18E+00	-0.08733062
WBGene00005788	-0.080262653	2	7.73E-01	-0.14697333
WBGene00013492	-0.191145425	14	2.32E+01	-0.273104316
WBGene00013493	-0.002264158	6	7.89E-01	-0.208698704
WBGene00005354	0	1	5.26E-01	-0.005120134
WBGene00003702	-0.414812849	8	4.07E+01	-0.424198586
WBGene00077622	-0.307044375	5	5.27E+00	-0.647677653
WBGene00012027	-0.117881292	4	1.29E+00	-0.082036562
WBGene00012028	-0.09481221	6	1.56E+00	-0.3242429
WBGene00012026	-0.136479652	7	2.59E+00	-0.322188697
WBGene00194715	-0.399869863	5	9.63E+00	-0.160604733
WBGene00012025	-0.403793649	6	1.53E+01	-0.610351763
WBGene00012023	-0.178504959	4	1.81E+00	0.078431754
WBGene00012024	-0.748334068	9	1.83E+03	-0.134777175
WBGene00012022	-0.140494995	7	2.68E+00	-0.163113592
WBGene00012021	0.005596384	9	9.25E-01	-0.221147568
WBGene00012020	-0.049467835	8	1.43E+00	-0.773770006
WBGene00012019	0.407628118	139	1.10E-18	0.425827776
WBGene00012315	0.21048252	14	6.77E-02	0.396589945
WBGene00004248	0.069457279	10	4.94E-01	0.27789261
WBGene00012316	0.070559616	16	5.33E-01	0.141044116
WBGene00013606	0.052130401	36	1.34E+00	0.051295947
WBGene00011850	-0.211919838	15	4.09E+01	-0.131024983
WBGene00011854	0	2	5.69E-01	0
WBGene00005426	-0.085427193	7	1.70E+00	-0.069767588
WBGene00005424	-0.036835532	2	6.55E-01	0.067545136
WBGene00005425	0.519883201	10	3.55E-03	0.672598141
WBGene00004026	0.197817958	19	4.96E-02	0.20147535
WBGene00006585	0.711611206	9	7.59E-04	0.638419378

WBGene00011853	-0.208655922	4	2.14E+00	0.106184318
WBGene00044331	-1	7	1.22E+04	-0.491736132
WBGene00044332	-0.248569401	6	4.86E+00	-0.169613486
WBGene00011852	-0.822967232	8	1.72E+03	-0.948188927
WBGene00013609	-0.718936324	7	3.22E+02	-0.640595489
WBGene00013608	-0.835333313	9	4.38E+03	-0.756213318
WBGene00013607	-0.770499201	8	1.06E+03	-0.258514337
WBGene00009854	-0.892431809	8	3.25E+03	-0.311182393
WBGene00009855	-0.759956613	8	9.64E+02	-0.354239424
WBGene00009860	-0.365127805	7	1.72E+01	-0.412649797
WBGene00009856	0.001980235	7	8.24E-01	-0.001746668
WBGene00009857	-0.089088273	6	1.50E+00	-0.14846749
WBGene00009859	-0.471190324	9	1.12E+02	-0.306831222
WBGene00009858	0.224146687	4	1.89E-01	-0.542265747
WBGene00005770	-0.062420143	5	1.08E+00	-0.160971292
WBGene00044195	-0.010901749	2	5.93E-01	-0.149297814
WBGene00008617	-0.355631729	8	2.36E+01	0.084251671
WBGene00044278	-1	3	6.85E+01	-0.913892018
WBGene00044181	-0.00959788	1	5.41E-01	-0.012529149
WBGene00044182	-0.00959788	1	5.41E-01	-0.012529149
WBGene00044183	-0.332588615	2	2.02E+00	-0.354955829
WBGene00008615	-0.449297268	3	5.10E+00	-0.372241687
WBGene00008616	-0.25861115	6	5.24E+00	-0.068239731
WBGene00077492	-0.544939059	2	4.55E+00	0.032715935
WBGene00008618	-0.031839355	2	6.42E-01	-0.042367596
WBGene00005145	-0.673456095	12	6.58E+03	-0.806155695
WBGene00008619	-0.390427449	8	3.25E+01	-0.225160642
WBGene00077493	-0.158552271	5	2.01E+00	-0.057872412
WBGene00003706	-0.581925792	15	1.23E+04	0.051195937
WBGene00008620	0	2	5.69E-01	-0.000372044
WBGene00013610	-0.24108779	7	6.17E+00	0.076602956
WBGene00013611	-0.134463741	5	1.72E+00	-0.133443261
WBGene00013613	0	4	6.64E-01	0
WBGene00044213	-0.164381729	2	1.07E+00	-0.46529918
WBGene00013616	-0.244476329	4	2.61E+00	0.094831999
WBGene00013619	-0.011981751	3	6.50E-01	-0.029052763
WBGene00013620	-0.743579566	2	9.71E+00	-1
WBGene00013622	0.064175787	14	5.68E-01	-0.25203323
WBGene00005416	-0.131239499	4	1.39E+00	0.074890105
WBGene00013621	-0.091563113	6	1.53E+00	-0.171937588
WBGene00001161	0.028687024	11	8.13E-01	0.078053162
WBGene00013623	0.158655833	9	1.98E-01	0.116608192
WBGene00005338	-0.405156635	7	2.40E+01	0.066634148
WBGene00005945	-0.498488411	10	2.49E+02	-0.526420218
WBGene00013626	-0.017439789	3	6.67E-01	0.054137194
WBGene00077624	-0.094331468	5	1.32E+00	-0.398219639
WBGene00013628	-0.745370737	4	4.32E+01	-0.723541545

WBGene00013629	-0.351811865	5	7.05E+00	-0.116231523
WBGene00006249	-0.913063205	8	3.93E+03	-0.742694284
WBGene00005521	-0.828671202	9	4.10E+03	-0.64089588
WBGene00005348	-0.119619403	6	1.88E+00	-0.356737327
WBGene00005581	0	5	7.18E-01	-0.086142139
WBGene00009914	0	3	6.15E-01	-0.11089254
WBGene00009905	0	2	5.69E-01	-0.003349501
WBGene00009906	-0.146329582	5	1.86E+00	0.132825481
WBGene00009907	-0.034269075	2	6.48E-01	-0.04184047
WBGene00005316	-0.119887136	6	1.88E+00	-0.012570326
WBGene00050965	0	1	5.26E-01	-0.008712329
WBGene00009913	0	3	6.15E-01	-0.135401096
WBGene00009909	0	1	5.26E-01	-0.031121187
WBGene00009908	-0.023263581	9	1.24E+00	-0.129787676
WBGene00050894	-0.010429469	1	5.43E-01	-0.020606697
WBGene00009912	0	1	5.26E-01	-0.005913448
WBGene00009195	-0.146365687	10	5.26E+00	-0.478668841
WBGene00009196	-0.71773039	35	1.73E+11	-0.312440603
WBGene00005578	-0.615790308	9	4.81E+02	-0.658619937
WBGene00045381	-1	12	2.68E+06	-1
WBGene00005461	-0.289513843	7	9.21E+00	-0.311531469
WBGene00045382	-0.037761061	5	9.17E-01	-0.564767975
WBGene00011485	-0.029746869	1	5.74E-01	-0.04513781
WBGene00006176	-0.527343258	6	3.81E+01	0.109789879
WBGene00011486	-0.16571585	6	2.64E+00	-0.27311036
WBGene00005767	-0.003299856	2	5.76E-01	-0.00616163
WBGene00045500	-0.137683947	4	1.44E+00	-0.116452582
WBGene00011487	-0.076136238	20	1.04E+01	-0.200460816
WBGene00005444	-0.115989272	4	1.27E+00	-0.140444638
WBGene00013935	-0.284151537	5	4.54E+00	-0.083063922
WBGene00013937	-0.008495586	4	6.97E-01	-0.425950834
WBGene00013938	-0.453114979	4	8.40E+00	-0.569166643
WBGene00013939	-0.03640754	3	7.30E-01	0.093895207
WBGene00013940	0.031164812	6	6.16E-01	-0.531592248
WBGene00013941	-0.103609811	5	1.41E+00	-0.136050671
WBGene00013943	-0.05524615	4	9.05E-01	-0.183224728
WBGene00194682	-0.415972687	4	6.83E+00	0.123021587
WBGene00009572	-0.206770202	9	7.84E+00	0.039745767
WBGene00009571	0.076778547	12	4.64E-01	0.29526237
WBGene00005321	-0.092876033	9	2.49E+00	0.001023346
WBGene00009569	0.042943569	4	5.22E-01	0
WBGene00005798	-0.040626294	4	8.34E-01	0.16134207
WBGene00009568	-0.187484301	4	1.90E+00	-0.037279692
WBGene00009567	-0.038743993	3	7.38E-01	-0.061789346
WBGene00009566	-0.528091274	5	2.21E+01	-0.197565186
WBGene00005390	-0.030413215	2	6.39E-01	-0.067378897
WBGene00005375	-0.463018497	5	1.45E+01	-0.278150134

WBGene00006235	0	2	5.69E-01	0.007103769
WBGene00013466	0	4	6.64E-01	0.00115012
WBGene00013468	-0.112362956	3	1.04E+00	-0.016066136
WBGene00013469	-1	16	3.16E+08	-0.71725876
WBGene00044212	-0.22175904	4	2.30E+00	-0.264854608
WBGene00005443	0	2	5.69E-01	0.021007457
WBGene00005332	0	1	5.26E-01	0
WBGene00011840	-0.012556297	2	5.97E-01	0.132104031
WBGene00005328	-0.26512233	3	2.14E+00	-0.213378443
WBGene00005458	-0.270556645	5	4.16E+00	-0.161803703
WBGene00005331	-0.006582604	2	5.83E-01	-0.014383488
WBGene00011841	-0.945816374	5	3.34E+02	-0.606586598
WBGene00050934	-0.820882707	5	1.48E+02	-0.425167852
WBGene00011844	-0.145018377	4	1.50E+00	-0.140555868
WBGene00013472	-0.593320289	4	1.84E+01	-0.254604141
WBGene00013471	-0.00221103	2	5.74E-01	0
WBGene00013470	-0.472684421	6	2.55E+01	-0.193338047
WBGene00219383	-0.218952458	5	2.97E+00	-0.005387489
WBGene00005335	-0.067169197	2	7.35E-01	-0.004265389
WBGene00005334	-0.192613516	7	4.13E+00	0.131505702
WBGene00044654	-0.675756726	6	1.14E+02	-0.760824146
WBGene00010752	-0.28207237	4	3.22E+00	-0.064878429
WBGene00044202	0	4	6.64E-01	-0.090611833
WBGene00219212	-0.012859302	2	5.97E-01	0.001959662
WBGene00206504	0	2	5.69E-01	0
WBGene00010754	-0.122287904	7	2.31E+00	-0.141261479
WBGene00005582	-0.283844156	3	2.34E+00	-0.043472113
WBGene00303378	0.014708418	1	5.04E-01	-0.006037212
WBGene00009299	0.859500286	9	1.71E-04	0.363982069
WBGene00009298	-0.014750188	4	7.21E-01	0.040454312
WBGene00009296	-0.759009009	11	9.20E+03	-0.733994943
WBGene00009297	-0.487917617	9	1.33E+02	-0.375915646
WBGene00005201	-0.231099942	8	7.54E+00	-0.295152327
WBGene00009836	-0.591874907	15	1.43E+04	-0.87357731
WBGene00009839	0.039351512	17	9.24E-01	0.004955153
WBGene00009840	-0.122815517	11	4.90E+00	-0.226958053
WBGene00004811	-0.0095335	1	5.41E-01	-0.011749257
WBGene00009834	-0.691455375	6	1.28E+02	-0.661754586
WBGene00009841	-0.058829818	7	1.36E+00	-0.185592141
WBGene00009835	-0.037600692	21	5.42E+00	-0.247400918
WBGene00012491	-0.2610488	27	3.62E+03	-0.225352748
WBGene00012492	-0.280557805	9	1.65E+01	-0.178952991
WBGene00077495	-0.329859754	5	6.11E+00	-0.372237279
WBGene00005339	-0.032084735	7	1.09E+00	-0.047641987
WBGene00005349	-0.325021407	8	1.78E+01	-0.464364342
WBGene00044059	-0.431272399	7	2.98E+01	-0.435027082
WBGene00012081	-0.735058517	5	8.49E+01	-0.404501172

WBGene00012083	-0.171525384	2	1.09E+00	-0.083110199
WBGene00044100	0.031033516	4	5.58E-01	0
WBGene00206495	0.048708265	2	4.72E-01	-0.047894637
WBGene00008982	0.09519465	4	3.90E-01	-0.078709245
WBGene00005370	-0.161764169	4	1.64E+00	-0.062120758
WBGene00005414	-0.433456931	10	1.22E+02	-0.676484279
WBGene00006236	-0.065280719	4	9.57E-01	-0.116498432
WBGene00008981	-0.01392866	3	6.56E-01	-0.029383861
WBGene00008984	-1	8	6.33E+04	-0.760204778
WBGene00005819	-0.714547289	5	7.43E+01	-0.463896715
WBGene00050906	-0.491528148	5	1.75E+01	-0.147514263
WBGene00005442	-0.001242761	2	5.72E-01	-0.028126862
WBGene00005341	-0.042442265	5	9.45E-01	0
WBGene00008574	-0.064126556	2	7.26E-01	0
WBGene00005330	-0.601607468	5	3.57E+01	-0.517650737
WBGene00008575	-0.089164075	3	9.35E-01	-0.348840898
WBGene00010534	0	4	6.64E-01	-0.039970152
WBGene00005337	-0.171667074	5	2.19E+00	-0.045402807
WBGene00005778	0.098691878	7	3.70E-01	-0.153318233
WBGene00005779	-0.274886996	6	5.91E+00	-0.355322463
WBGene00007672	-0.232148224	34	1.25E+04	-0.133022297
WBGene00007678	-0.164433991	3	1.33E+00	-0.01845967
WBGene00219493	-0.552724337	2	4.69E+00	-0.773925283
WBGene00007674	-0.287353774	2	1.70E+00	-0.587876074
WBGene00007673	-0.129847092	1	7.69E-01	-0.147897211
WBGene00007675	-0.039488879	13	2.29E+00	0.551990127
WBGene00014679	0.170921699	4	2.55E-01	0.354454579
WBGene00008017	-0.144655972	9	4.20E+00	-0.308387518
WBGene00008016	-0.802967188	11	1.55E+04	-0.150094813
WBGene00008015	-0.174158909	12	1.14E+01	-0.28415294
WBGene00008014	-0.453101416	11	2.45E+02	-0.273759907
WBGene00008009	-0.143639861	10	5.10E+00	-0.002415696
WBGene00008010	-0.126805998	14	9.10E+00	-0.231993743
WBGene00008012	-0.573247758	6	5.35E+01	-0.905973637
WBGene00012404	-0.409244556	24	4.62E+04	-0.657665524
WBGene00012405	-0.775489001	9	2.40E+03	-1
WBGene00194801	-1	4	4.53E+02	-0.992168485
WBGene00012406	-0.099859471	3	9.84E-01	-0.172171943
WBGene00189937	-0.960211307	3	5.65E+01	-0.47089933
WBGene00138715	-0.046654683	2	6.80E-01	-0.061056882
WBGene00044207	-0.18034208	2	1.13E+00	-0.281781468
WBGene00044208	-0.008002661	1	5.39E-01	-0.013048843
WBGene00045501	-0.043755463	7	1.20E+00	-0.000914784
WBGene00010206	-0.694148324	6	1.31E+02	-0.078070218
WBGene00195165	-0.432437477	10	1.21E+02	-0.21623948
WBGene00045506	-0.086034068	4	1.08E+00	-0.04782168
WBGene00010212	-0.280796192	32	3.13E+04	-0.435394954

WBGene00010293	-0.450528795	6	2.16E+01	-0.200105951
WBGene00010296	0.084044585	9	4.20E-01	0.17655808
WBGene00010297	0.007086209	4	6.38E-01	0.054622208
WBGene00010298	-0.104847147	4	1.19E+00	-0.060476766
WBGene00006148	-0.251222663	8	9.07E+00	-0.25116168
WBGene00006151	-0.019242792	4	7.40E-01	-0.026662032
WBGene00006150	-0.130159049	7	2.46E+00	-0.081892084
WBGene00010300	-0.434397162	18	5.10E+03	-0.427153626
WBGene00010301	-0.937268604	6	7.87E+02	-1
WBGene00010292	-0.14964298	4	1.54E+00	-0.250134647
WBGene00206506	-0.002622806	2	5.75E-01	0.007447307
WBGene00010299	0.085603741	8	4.13E-01	0.067055362
WBGene00012515	0.013581414	6	7.02E-01	0
WBGene00189932	0	2	5.69E-01	0
WBGene00077640	0	5	7.18E-01	-0.000399467
WBGene00189931	-0.055941296	2	7.04E-01	-0.271322433
WBGene00189930	-0.243147095	3	1.93E+00	-0.157635748
WBGene00005255	-0.007393636	3	6.36E-01	-0.002969623
WBGene00012305	-1	4	1.81E+02	-0.201738248
WBGene00005254	-0.156309921	7	3.06E+00	0.086480846
WBGene00006685	-0.007251775	6	8.18E-01	-0.054855764
WBGene00006137	-0.006270912	6	8.12E-01	-0.024763452
WBGene00001397	0.736958736	11	1.84E-04	0.760227056
WBGene00006692	0.666186913	14	9.03E-05	0.692823165
WBGene00012304	-0.084258249	12	3.61E+00	-0.074242519
WBGene00006688	-0.022563214	12	1.65E+00	-0.221207723
WBGene00011254	0.767943125	5	4.90E-03	0.415243872
WBGene00004003	-0.115428202	24	4.69E+01	-0.245212364
WBGene00219381	-0.822527498	3	2.95E+01	-0.315167089
WBGene00005488	-1	3	1.02E+02	-0.650157132
WBGene00005489	-0.421855973	6	1.75E+01	-0.330564176
WBGene00008126	-0.123194603	6	1.93E+00	-0.214687069
WBGene00008127	0.082068015	4	4.19E-01	0.034000188
WBGene00008129	0	4	6.64E-01	0
WBGene00008128	-0.037028877	9	1.42E+00	-0.019061785
WBGene00005494	-0.115874066	8	2.62E+00	-0.132309953
WBGene00005493	-0.230162287	3	1.82E+00	0.013203103
WBGene00005492	0	1	5.26E-01	0
WBGene00005909	0	5	7.18E-01	0
WBGene00005491	-0.436713944	8	4.97E+01	-0.379394429
WBGene00050893	-0.415484072	2	2.78E+00	-0.016039448
WBGene00005496	-0.213457562	5	2.87E+00	-0.168253245
WBGene00005495	-0.053731571	9	1.68E+00	-0.040518986
WBGene00005500	0.022686311	6	6.56E-01	0.009805401
WBGene00005502	0.019057563	7	7.16E-01	-0.070187557
WBGene00005504	-0.069755074	6	1.30E+00	-0.119352166
WBGene00005505	-0.223538186	12	2.13E+01	0.523017508

WBGene00005508	-0.596783785	8	2.16E+02	-0.204259838
WBGene00005507	-0.203902909	5	2.70E+00	-0.014362867
WBGene00005490	-0.050292566	5	9.95E-01	0.081360003
WBGene00013340	0.031910252	12	8.22E-01	0.067989014
WBGene00000813	0.031500402	21	1.29E+00	-0.023052435
WBGene00303370	0.03249735	1	4.79E-01	-0.023105874
WBGene00013339	0.062226232	7	5.01E-01	-0.007317015
WBGene00007394	-0.003615962	22	2.90E+00	-0.011933519
WBGene00206499	-0.059159229	2	7.13E-01	-0.005432259
WBGene00219445	0.010589576	2	5.46E-01	-0.120535269
WBGene00007392	0.177734396	5	2.26E-01	-0.242964159
WBGene00219446	0.171871407	2	2.95E-01	-0.826700168
WBGene00007393	-0.083031031	7	1.67E+00	-0.282488791
WBGene00219447	-0.308169527	2	1.84E+00	-0.390315968
WBGene00007395	-0.134131915	18	2.23E+01	-0.093127564
WBGene00044795	0.099517929	13	3.43E-01	0.109762464
WBGene00008442	0.006523157	5	6.88E-01	0.018403684
WBGene00008441	0.051484888	21	8.51E-01	-0.006025067
WBGene00001080	0.348184432	43	1.06E-05	0.237005601
WBGene00013356	-0.148372131	1	8.12E-01	-0.348579356
WBGene00013355	-0.061110347	22	1.01E+01	-0.028415766
WBGene00013354	0.013616791	12	1.04E+00	-0.000564331
WBGene00013353	0.056161923	14	6.38E-01	0.108616061
WBGene00013352	-0.11424398	14	7.58E+00	-0.105230681
WBGene00013351	-0.0081669	5	7.57E-01	-0.013576663
WBGene00045459	0	5	7.18E-01	-0.018278452
WBGene00005350	-0.366066044	8	2.60E+01	-0.6053448
WBGene00005351	-0.151791468	6	2.38E+00	-0.26563619
WBGene00013343	0.10269501	46	2.06E-01	0.169951892
WBGene00013344	0.040364913	9	6.52E-01	0.100450484
WBGene00044794	-0.089635689	2	8.01E-01	-0.067564587
WBGene00007062	-0.025742346	3	6.94E-01	-0.043550344
WBGene00013345	-0.009214867	5	7.62E-01	0.067914626
WBGene00013347	-0.00256056	10	1.09E+00	0.025664382
WBGene00013348	-0.237714074	12	2.55E+01	0.200448829
WBGene00013349	-0.029644584	2	6.37E-01	0
WBGene00013350	0.010020602	11	1.01E+00	-0.008558796
WBGene00003919	0.009264921	23	2.35E+00	-0.017468606
WBGene00012562	-0.015223766	9	1.14E+00	0.071652158
WBGene00012564	-0.53557699	6	4.05E+01	-0.304077396
WBGene00012565	-0.442130978	8	5.22E+01	-0.472621477
WBGene00012566	-0.265587283	4	2.94E+00	-0.055506382
WBGene00044758	-0.001219043	8	9.16E-01	0.080172831
WBGene00219210	-0.149897139	7	2.90E+00	-0.349592239
WBGene00012567	-0.158799507	5	2.01E+00	-0.169472104
WBGene00012570	-0.124143649	9	3.41E+00	-0.043427158
WBGene00012571	-0.244730747	4	2.62E+00	-0.393865098

WBGene00045417	-0.017943964	1	5.55E-01	-0.031121187
WBGene00045416	-0.227955512	4	2.38E+00	-0.257365488
WBGene00007567	-0.415484072	1	1.77E+00	-0.02993655
WBGene00007565	-0.514303306	11	5.07E+02	-0.629301842
WBGene00050956	0.003722297	3	6.04E-01	-0.108116514
WBGene00050955	0.058094154	2	4.56E-01	-0.009302807
WBGene00007569	-0.001739557	5	7.26E-01	-0.001536166
WBGene00007570	-0.385399178	7	2.04E+01	-0.280145766
WBGene00007571	-0.199098596	2	1.22E+00	-0.298711952
WBGene00007572	-0.023206552	6	9.21E-01	0.036243412
WBGene00007853	-0.093569451	22	2.04E+01	-0.255116583
WBGene00007850	0.014911875	3	5.73E-01	-0.137330915
WBGene00007852	0	2	5.69E-01	-0.210440353
WBGene00007851	-0.101643985	5	1.39E+00	-0.022946619
WBGene00008892	-0.036931144	4	8.17E-01	-0.025534677
WBGene00008891	-0.17453782	10	7.16E+00	-0.158879742
WBGene00008893	-0.095119837	5	1.33E+00	-0.158947943
WBGene00008894	-0.044737431	11	1.94E+00	0.052243467
WBGene00008897	-0.008705083	2	5.88E-01	0.170479445
WBGene00008898	-0.303844159	19	6.81E+02	-0.344366339
WBGene00008899	-0.550059392	31	6.71E+07	-0.9562692
WBGene00008900	-0.014892732	7	9.48E-01	-0.010013079
WBGene00011209	-0.200249801	8	5.68E+00	-0.130593566
WBGene00011213	-0.049600974	10	1.82E+00	-0.000248721
WBGene00011207	-0.086890885	25	2.81E+01	-0.084857726
WBGene00011208	-0.006285996	4	6.88E-01	-0.139771236
WBGene00011211	-0.229697861	14	4.06E+01	-0.405726043
WBGene00011212	-0.860811944	40	1.39E+15	-0.856155487
WBGene00012574	-0.755900327	9	1.97E+03	-0.881272332
WBGene00004812	0.006953354	3	5.95E-01	-0.028232844
WBGene00012575	-0.180634984	6	2.94E+00	-0.451730594
WBGene00206507	-0.235485212	1	1.05E+00	-0.076579313
WBGene00013058	-0.170006997	20	6.74E+01	-0.229748026
WBGene00013060	-0.975248519	3	6.06E+01	-0.79567611
WBGene00077445	-0.220573997	2	1.32E+00	-0.011665441
WBGene00013064	0	2	5.69E-01	0
WBGene00013061	-0.301414164	9	2.03E+01	-0.305531915
WBGene00013062	-0.017612451	3	6.68E-01	-0.084745257
WBGene00013063	0	2	5.69E-01	0
WBGene00007182	-0.159642731	3	1.30E+00	-0.05712881
WBGene00194695	-0.621307693	9	5.08E+02	-0.166055349
WBGene00007183	-0.045621185	2	6.77E-01	-0.016744717
WBGene00077692	-0.151405656	3	1.25E+00	-0.079877093
WBGene00007439	0	1	5.26E-01	0
WBGene00119201	-0.129142482	4	1.37E+00	0
WBGene00007438	-0.028348908	5	8.63E-01	-0.101945125
WBGene00007441	0	2	5.69E-01	-0.13635543

WBGene00007437	0	2	5.69E-01	0
WBGene00050891	0	2	5.69E-01	-0.035388747
WBGene00007442	0	2	5.69E-01	0
WBGene00007440	0	3	6.15E-01	0.046208095
WBGene00013066	-0.279969091	5	4.42E+00	-0.196963222
WBGene00013071	-0.021404631	2	6.17E-01	-0.189818516
WBGene00013067	-0.009845721	2	5.91E-01	-0.006677789
WBGene00013068	0	8	9.06E-01	-0.071566854
WBGene00013069	-0.116306524	7	2.20E+00	-0.094587809
WBGene00013070	-0.466409056	8	6.53E+01	-0.083785406
WBGene00050907	-0.195168327	3	1.54E+00	-0.221405175
WBGene00206496	0	1	5.26E-01	0
WBGene00005419	-0.113320741	4	1.25E+00	-0.429076702
WBGene00005417	-0.198521493	6	3.36E+00	0.095648183
WBGene00013949	0.029094651	5	5.94E-01	0.052782934
WBGene00013950	0.009543105	5	6.75E-01	-0.182740209
WBGene00005614	-0.002782655	2	5.75E-01	0.006909169
WBGene00013951	0	2	5.69E-01	0
WBGene00206508	0	1	5.26E-01	0
WBGene00005830	-0.21221292	20	1.56E+02	-0.056443115
WBGene00005829	-0.58485217	8	1.93E+02	-0.353350631
WBGene00219370	-0.158326159	2	1.04E+00	0.05223593
WBGene00013953	-0.394686656	9	5.20E+01	-0.833605465
WBGene00013954	-0.036751625	2	6.54E-01	-0.173506342
WBGene00013944	-1	21	7.62E+09	-1
WBGene00044215	-0.198417966	2	1.21E+00	-0.446988741
WBGene00013946	0	5	7.18E-01	0
WBGene00013947	-0.11634101	2	8.87E-01	-0.104602202
WBGene00195061	-0.975993427	3	6.09E+01	-2
WBGene00005397	-0.381638522	5	8.56E+00	-0.136193451
WBGene00005396	0	2	5.69E-01	0
WBGene00005394	-0.176727764	7	3.62E+00	-0.007319088
WBGene00005393	-0.670522126	9	8.34E+02	-0.732536762
WBGene00013083	0.003919479	9	9.41E-01	0.018412396
WBGene00004830	0.154617831	18	1.20E-01	0.127010547
WBGene00013072	0.026281283	7	6.74E-01	0.14610135
WBGene00013073	-0.038873904	15	2.84E+00	-0.099332812
WBGene00013074	-0.422324774	13	4.23E+02	-0.291602366
WBGene00013075	0	10	1.06E+00	0
WBGene00013076	0.008531402	15	1.37E+00	0.018428741
WBGene00013077	0.406460836	4	6.82E-02	1
WBGene00013078	0.037920149	7	6.12E-01	0.203389688
WBGene00013079	-0.016531249	3	6.64E-01	-0.009295083
WBGene00005191	-0.150712122	12	8.43E+00	-0.086590691
WBGene00044210	0	3	6.15E-01	0
WBGene00013080	0	9	9.79E-01	-0.008813101
WBGene00013081	0	1	5.26E-01	0.014185014

WBGene00013082	-0.017457532	23	4.29E+00	0.054219095
WBGene00003660	0.06767045	6	4.70E-01	-0.249311051
WBGene00013479	0	5	7.18E-01	0
WBGene00050884	0.267940353	9	6.60E-02	0.224242608
WBGene00013480	-0.132267931	15	1.20E+01	-0.179063252
WBGene00013489	0.11882325	6	3.22E-01	-0.579809246
WBGene00013486	-0.006460386	16	1.87E+00	-0.069260698
WBGene00013487	-0.19337669	23	2.27E+02	-0.176680835
WBGene00013481	-0.216357606	18	9.87E+01	-0.18979088
WBGene00013485	-0.046881224	13	2.53E+00	-0.018439469
WBGene00077455	0.187205181	5	2.13E-01	0.157215043
WBGene00006714	0.002469243	5	7.06E-01	0.169937856
WBGene00013482	0.024274994	10	8.10E-01	-0.000322713
WBGene00013483	-0.345060664	10	4.64E+01	-0.39744259
WBGene00013484	-0.046659943	12	2.24E+00	-0.089227075
WBGene00012455	-0.235436005	2	1.40E+00	0.050021437
WBGene00194680	0.907061445	9	1.06E-04	1
WBGene00012456	0.001098852	7	8.30E-01	0.047175924
WBGene00077655	-0.099089696	6	1.61E+00	0.012550498
WBGene00013973	-0.462916584	14	1.20E+03	-0.183943346
WBGene00013971	-0.551455449	4	1.46E+01	-0.89452772
WBGene00013972	-0.805788595	8	1.47E+03	-0.633472379
WBGene00045364	-0.001492719	8	9.18E-01	0.04679363
WBGene00008703	-0.109931853	5	1.47E+00	-0.018778025
WBGene00008702	-0.225178852	2	1.34E+00	-0.528441625
WBGene00045362	-0.085663932	2	7.89E-01	-0.157658031
WBGene00206492	-0.009035691	4	6.99E-01	-0.268903581
WBGene00008701	-0.33566987	3	2.99E+00	-0.043861916
WBGene00008700	-1	4	1.82E+02	-0.506607099
WBGene00008698	-0.36083533	10	5.51E+01	-0.2299465
WBGene00008699	-0.58394851	2	5.28E+00	-0.917559318
WBGene00271804	-0.785711576	7	5.60E+02	0.095198565
WBGene00008696	-0.048630466	2	6.85E-01	-0.041288024
WBGene00012454	-0.159411043	4	1.62E+00	0.250324481
WBGene00044892	0.111558767	2	3.72E-01	0.031262063
WBGene00012452	0.156663824	10	1.90E-01	0.09469442
WBGene00194982	0	1	5.26E-01	0
WBGene00012451	0.002218607	2	5.64E-01	-0.005599246
WBGene00012450	0.150586684	5	2.70E-01	-0.363236761
WBGene00012449	-0.023713737	6	9.24E-01	-0.010256665
WBGene00008309	-0.063888454	9	1.86E+00	-0.196690845
WBGene00206524	-0.001207193	2	5.71E-01	0.001252245
WBGene00206523	0	2	5.69E-01	0
WBGene00005522	0	4	6.64E-01	0.020141638
WBGene00008310	0.155699935	2	3.14E-01	0.223294469
WBGene00008308	0.042292915	6	5.67E-01	-0.000807205
WBGene00195058	0.164112311	2	3.04E-01	-0.147598728

WBGene00008307	0.009057246	8	8.33E-01	0.049271882
WBGene00012448	0.055016996	12	6.13E-01	0.012064434
WBGene00003655	0	4	6.64E-01	0
WBGene00012446	0.044093618	12	7.04E-01	0.018330928
WBGene00006945	0.008870982	7	7.79E-01	0.013456235
WBGene00001258	0.02194031	45	6.31E+00	0.004875418
WBGene00013583	0.051457724	6	5.30E-01	-0.073748932
WBGene00013584	-0.00101133	9	9.89E-01	0.093594769
WBGene00013588	-0.016117152	3	6.63E-01	-0.080389312
WBGene00013585	-0.01679075	11	1.39E+00	-0.035087048
WBGene00004236	-0.009141022	12	1.39E+00	0.000987679
WBGene00013586	-0.059873816	24	1.27E+01	0.022653154
WBGene00013587	-0.001888489	6	7.86E-01	-0.022913015
WBGene00012702	-0.009645314	3	6.43E-01	0.007882843
WBGene00012701	0.032076382	15	9.50E-01	0.095078174
WBGene00012700	0.221506986	2	2.44E-01	0.002361988
WBGene00012699	-0.013998908	8	1.03E+00	-0.014708407
WBGene00012698	0	4	6.64E-01	0
WBGene00012697	0.082530783	8	4.25E-01	0.065482994
WBGene00012696	-0.116177488	4	1.27E+00	-0.006252467
WBGene00012695	-0.000452838	4	6.66E-01	0
WBGene00012694	0.054238511	6	5.20E-01	0.013722266
WBGene00006567	0.178299416	2	2.88E-01	0.096288296
WBGene00012693	0.619886533	3	3.32E-02	0.557572382
WBGene00012692	0.019992586	6	6.69E-01	0.053515709
WBGene00012689	-0.334384192	24	7.97E+03	-0.42689334
WBGene00012688	-0.088138148	10	2.78E+00	-0.001331688
WBGene00012684	0	9	9.79E-01	0
WBGene00012686	-0.008477703	13	1.50E+00	-0.053285062
WBGene00012683	-0.59639392	10	7.28E+02	-0.414298234
WBGene00012682	-0.222094763	15	4.79E+01	-0.298740824
WBGene00012681	-0.176287339	9	5.77E+00	-0.083645748
WBGene00000214	-0.412669252	8	3.99E+01	-0.523121575
WBGene00006696	0.127128139	11	2.53E-01	-0.030464063
WBGene00003685	-0.066219926	11	2.50E+00	0.024721189
WBGene00012703	0.004818749	8	8.66E-01	0.000193947
WBGene00012678	0	2	5.69E-01	0
WBGene00012676	0.012863226	27	2.82E+00	0.036267774
WBGene00012675	0.083351356	3	4.15E-01	0.014967803
WBGene00012674	-0.01409409	4	7.19E-01	0
WBGene00012673	0	8	9.06E-01	0
WBGene00012672	-0.091187452	7	1.78E+00	-0.046359269
WBGene00012671	0.07724916	8	4.46E-01	0.086088574
WBGene00012670	0.677518962	8	1.81E-03	0.62590386
WBGene00012669	0.072284266	5	4.49E-01	0.047991156
WBGene00195240	-0.00316425	1	5.31E-01	-0.004133452
WBGene00006639	0.007921845	9	9.04E-01	-0.051372922

WBGene00012668	0.442785396	3	7.64E-02	-0.348746086
WBGene00001987	0	8	9.06E-01	6.33E-05
WBGene00012666	0.005642361	3	5.99E-01	0.03896735
WBGene00012665	0.036887406	12	7.72E-01	0.004285828
WBGene00012664	-0.182097188	10	7.78E+00	-0.168564654
WBGene00003669	0.065513584	11	5.26E-01	0.047749268
WBGene00005653	-0.053663985	7	1.31E+00	-0.09414722
WBGene00012068	-0.012949091	8	1.02E+00	-0.019575045
WBGene00006140	0	1	5.26E-01	-0.000217029
WBGene00012067	-0.118332352	5	1.55E+00	-0.074079955
WBGene00012066	-0.043282312	3	7.54E-01	-0.047671527
WBGene00012065	0.007133765	4	6.38E-01	-0.19785099
WBGene00012064	-0.241534606	6	4.62E+00	0.002071782
WBGene00012063	-0.112680266	4	1.25E+00	-0.148560299
WBGene00219452	0.238796727	3	2.00E-01	1
WBGene00009018	0.025162336	8	7.19E-01	-0.174899077
WBGene00009017	0.20841308	1	2.86E-01	0.23322222
WBGene00009016	-0.059380245	15	3.89E+00	-0.092903074
WBGene00009015	-0.216869287	8	6.62E+00	-0.053819218
WBGene00009021	-0.307079623	6	7.49E+00	-0.487100015
WBGene00010099	-0.008606946	2	5.88E-01	-0.008435864
WBGene00010100	-0.231804876	3	1.83E+00	-0.077815512
WBGene00010101	-0.34423682	6	9.86E+00	0.017855877
WBGene00010102	-0.02242705	1	5.62E-01	0.025958888
WBGene00010103	0	3	6.15E-01	-5.04E-05
WBGene00010104	-0.193008695	5	2.51E+00	-0.368123385
WBGene00077663	0	4	6.64E-01	-0.084682296
WBGene00010105	0.00744662	1	5.15E-01	-0.024110435
WBGene00044197	0.133194356	3	3.28E-01	-0.316223427
WBGene00010106	-0.02096915	6	9.05E-01	0.294386389
WBGene00206500	-0.375160889	2	2.38E+00	-0.305974069
WBGene00010107	0.204620941	2	2.61E-01	-0.974978132
WBGene00008070	-1	5	6.51E+02	-1
WBGene00008071	-0.085566646	8	1.99E+00	-0.131795996
WBGene00005418	-0.250566066	3	2.00E+00	-0.232253488
WBGene00008069	-0.060021122	2	7.15E-01	-0.200730499
WBGene00008068	-0.912293919	3	4.51E+01	-0.466476919
WBGene00008067	-0.101070316	4	1.17E+00	-0.018997745
WBGene00008066	-0.429967113	9	7.41E+01	-0.298539806
WBGene00007583	-0.056461391	36	5.46E+01	-0.050772934
WBGene00012808	-0.364967792	5	7.68E+00	-0.422193921
WBGene00012809	-0.42839426	37	2.86E+07	-0.328496258
WBGene00012810	0	6	7.76E-01	0
WBGene00005831	-0.042539187	5	9.46E-01	-0.060449821
WBGene00012811	-0.000585948	3	6.16E-01	-0.000982884
WBGene00007727	-0.152171247	6	2.39E+00	-0.063997194
WBGene00045413	-0.00558793	1	5.35E-01	0

WBGene00005833	-0.017535379	3	6.68E-01	-0.011602738
WBGene00045412	0	2	5.69E-01	0
WBGene00007726	-0.071130935	8	1.74E+00	0.050909565
WBGene00044291	-0.105804196	3	1.01E+00	-0.036606324
WBGene00007725	-0.961357321	7	2.40E+03	-0.261417395
WBGene00007724	-0.436333894	8	4.95E+01	-0.236524184
WBGene00007728	0	3	6.15E-01	-0.237753956
WBGene00050967	-0.017094532	1	5.53E-01	0
WBGene00007723	-0.127817129	15	1.12E+01	0.000980591
WBGene00005832	0.012125213	7	7.58E-01	-0.146153174
WBGene00045411	-0.220554736	2	1.32E+00	-0.147888938
WBGene00194803	-0.056673844	3	8.03E-01	-0.003009933
WBGene00045461	0.028802545	4	5.65E-01	-0.077122043
WBGene00010850	-0.183978279	18	5.49E+01	-0.201009284
WBGene00010851	-0.366074506	11	8.75E+01	-0.459315548
WBGene00206418	-0.027514445	1	5.70E-01	-0.047796573
WBGene00012824	-0.089400099	11	3.30E+00	-0.167249811
WBGene00012823	0.028663364	2	5.10E-01	-0.004668292
WBGene00195176	0.01942129	6	6.72E-01	-0.134937891
WBGene00045415	-0.596778136	9	3.97E+02	0.09618256
WBGene00195177	-0.023167434	3	6.85E-01	-0.007663943
WBGene00194815	0.015239753	4	6.10E-01	0.001009786
WBGene00012822	-0.466516094	3	5.53E+00	-0.165124406
WBGene00012821	0.03652486	3	5.18E-01	-0.050578335
WBGene00012820	-0.025850647	2	6.28E-01	0.006739169
WBGene00012819	-0.017094532	1	5.53E-01	0
WBGene00194699	0	1	5.26E-01	-0.004907157
WBGene00050910	-0.583055626	2	5.26E+00	-1
WBGene00219302	-0.42310964	2	2.86E+00	-0.950852579
WBGene00050911	-0.489036959	4	1.03E+01	-0.837592003
WBGene00012818	-0.236022398	3	1.87E+00	-0.579822358
WBGene00219455	0	1	5.26E-01	0
WBGene00012816	-0.004213768	2	5.78E-01	0
WBGene00012814	-0.386968386	62	2.61E+11	-0.510345983
WBGene00077688	-0.985456246	11	1.35E+05	-0.614804408
WBGene00012815	-0.542696483	7	7.49E+01	-0.680692691
WBGene00012813	-0.012279662	13	1.58E+00	0.037782585
WBGene00012812	0.020248669	15	1.14E+00	0.001503137
WBGene00086559	-0.036410396	4	8.14E-01	-0.315978531
WBGene00007177	-0.35117231	11	7.33E+01	-0.193272138
WBGene00007176	0.025816123	79	3.42E+01	0.129979912
WBGene00003763	0.005328688	1	5.18E-01	-0.008712329
WBGene00012840	0.000137758	4	6.64E-01	0
WBGene00003764	0.075473775	3	4.31E-01	0
WBGene00012825	0.060058153	21	7.12E-01	0.006374078
WBGene00012826	-0.013495144	9	1.12E+00	-0.078273272
WBGene00012827	-0.130773958	4	1.38E+00	-0.244834314

WBGene00012828	-0.049167309	9	1.61E+00	-0.004522013
WBGene00012829	0.470680981	4	4.76E-02	0.348738476
WBGene00012830	0.737162247	1	6.10E-02	0.596560358
WBGene00012831	0.41269785	5	4.92E-02	0.303759335
WBGene00012832	0	7	8.38E-01	0.054325946
WBGene00012833	-0.124615253	5	1.61E+00	-0.195102954
WBGene00003413	-0.007670022	39	1.33E+01	-0.008965963
WBGene00012834	-0.001478504	8	9.18E-01	-0.001930377
WBGene00012835	-0.004068831	14	1.53E+00	-0.01629509
WBGene00005714	-0.017552523	3	6.68E-01	-0.090343102
WBGene00012836	-1	6	6.11E+03	-1
WBGene00045344	-0.826699302	5	1.54E+02	-1
WBGene00012837	-0.746332034	5	9.13E+01	-0.605393784
WBGene00012838	-0.668612729	3	1.43E+01	-0.364927054
WBGene00013819	0.939745768	4	3.44E-03	1
WBGene00013817	0.25088452	3	1.89E-01	0.209851782
WBGene00013816	-0.40193677	11	1.34E+02	-0.439229721
WBGene00012252	0.067671581	8	4.87E-01	0.225119459
WBGene00012246	-0.078328663	4	1.03E+00	0.032497975
WBGene00012247	-0.085992507	6	1.46E+00	0.047328259
WBGene00012248	-0.019347627	2	6.12E-01	0.00287062
WBGene00012249	-0.015347456	4	7.24E-01	0.000720549
WBGene00012250	-0.064140203	11	2.44E+00	-0.154856684
WBGene00012251	-0.689337995	12	8.06E+03	-1
WBGene00012253	-0.51849296	34	1.33E+08	-0.857907177
WBGene00012254	-0.242808408	8	8.40E+00	-0.292343313
WBGene00010931	-0.14235443	13	9.29E+00	-0.157807836
WBGene00206535	-0.27332649	1	1.17E+00	-0.224920746
WBGene00010934	-0.629450978	6	8.11E+01	-0.982737893
WBGene00044655	-0.278713567	9	1.62E+01	-0.773380797
WBGene00010929	-0.063354797	6	1.24E+00	-0.101940153
WBGene00010928	-0.445368152	3	5.00E+00	-0.001481971
WBGene00010933	-0.369524934	13	2.06E+02	-0.676223225
WBGene00013820	-0.373796554	13	2.18E+02	-0.528041849
WBGene00000920	-0.188897535	5	2.45E+00	-0.129123902
WBGene00189943	0	1	5.26E-01	0
WBGene00003959	-0.40238194	36	7.42E+06	-0.437869208
WBGene00005785	0	3	6.15E-01	-0.002430483
WBGene00013822	-0.069608387	7	1.49E+00	0.010815646
WBGene00013823	-0.19442079	20	1.10E+02	-0.134829435
WBGene00013824	-0.084051336	13	4.20E+00	0.020668131
WBGene00013825	0.018023059	10	8.68E-01	-0.007781909
WBGene00001629	0.060252039	12	5.73E-01	0.04062576
WBGene00013828	0.111449336	4	3.56E-01	0.031018118
WBGene00013361	0.039461733	16	8.84E-01	0.019312101
WBGene00013829	-0.209447308	7	4.75E+00	-0.196720999
WBGene00000499	-0.005942495	12	1.33E+00	-0.012429241

WBGene00013365	0.0035034	3	6.05E-01	-0.001999306
WBGene00013364	-0.779146873	4	5.22E+01	-0.548330587
WBGene00004810	-0.258590008	3	2.08E+00	0.250207353
WBGene00013362	-0.082628978	10	2.61E+00	-0.014665354
WBGene00000987	-0.018848631	34	1.25E+01	0.019451531
WBGene00013360	0.066627275	6	4.74E-01	0.455615226
WBGene00013359	0.003351131	8	8.78E-01	0.046005149
WBGene00013358	-0.148429539	12	8.18E+00	0.398994808
WBGene00005388	-0.002590124	6	7.91E-01	0.010487075
WBGene00005387	-0.011398037	17	2.21E+00	0.004814582
WBGene00005389	-0.185720372	5	2.40E+00	-0.348150857
WBGene00005398	-0.37511339	8	2.83E+01	-0.142802146
WBGene00023519	-0.245228027	5	3.53E+00	-0.151121857
WBGene00013357	-0.324735768	13	1.12E+02	0.350679883
WBGene00005579	-0.001055243	3	6.18E-01	-4.99E-05
WBGene00044211	-0.227304085	7	5.50E+00	-0.130232478
WBGene00006786	0.780896141	29	1.57E-09	0.297159199
WBGene00013367	0.145143908	4	2.95E-01	0.196672305
WBGene00013366	0.013624482	6	7.01E-01	0.044873726
WBGene00013746	0.239761294	21	1.70E-02	0.336502073
WBGene00013753	0.004721077	4	6.47E-01	0.004032272
WBGene00013747	-0.026553065	14	2.12E+00	-0.025732934
WBGene00005440	0.00171494	1	5.24E-01	0
WBGene00006652	-0.062434984	20	7.94E+00	-0.028438099
WBGene00001485	-0.000290994	7	8.40E-01	0.019544178
WBGene00000940	-0.019882322	6	8.98E-01	0.023291425
WBGene00004754	0.015947415	21	1.78E+00	0.118823698
WBGene00013752	0.024166341	2	5.19E-01	0.069689642
WBGene00003566	-0.063565202	18	6.21E+00	0.042878624
WBGene00013748	-0.019068311	9	1.19E+00	0.020891405
WBGene00206510	0.006186363	1	5.17E-01	0.01104482
WBGene00013751	0.015971166	8	7.82E-01	0.075068768
WBGene00013749	-0.340354209	11	6.45E+01	-0.07506563
WBGene00013750	-0.69202181	7	2.58E+02	-0.61343799
WBGene00008946	-0.109102959	11	4.16E+00	0.025397077
WBGene00008945	-0.584424141	21	4.66E+05	-0.71310194
WBGene00008944	-0.046337898	6	1.09E+00	-0.041641839
WBGene00005786	-0.041197616	2	6.66E-01	-0.051646767
WBGene00008947	-0.05765421	7	1.35E+00	-0.017774391
WBGene00013754	-0.177253141	5	2.27E+00	-0.359006333
WBGene00013755	-0.000453347	5	7.20E-01	0.045162834
WBGene00195241	-0.870262238	3	3.70E+01	-0.535480428
WBGene00005427	-0.508856147	4	1.15E+01	-0.353205614
WBGene00195242	-0.683068567	4	3.05E+01	-0.452220488
WBGene00013756	-0.738730994	9	1.66E+03	-0.489333382
WBGene00001482	-1	8	1.92E+04	-0.354162509
WBGene00013758	-0.83011015	6	3.57E+02	-1

WBGene00013757	-0.078099625	5	1.19E+00	-0.337081326
WBGene00013759	-0.044238596	3	7.57E-01	-0.16546047
WBGene00013760	-0.05030925	3	7.79E-01	-0.00287593
WBGene00013762	-0.172996405	13	1.41E+01	-0.250938604
WBGene00013761	-0.23490918	5	3.30E+00	-0.176648955
WBGene00013764	0.022062367	9	7.84E-01	0.040545926
WBGene00013768	-0.003298633	5	7.33E-01	0
WBGene00004203	-0.014309237	11	1.35E+00	0.028412263
WBGene00007017	0.070581386	31	6.62E-01	0.043740123
WBGene00013766	0.738011914	9	5.82E-04	0.237082883
WBGene00013765	0.075237239	7	4.50E-01	-0.016726562
WBGene00004173	-0.005287341	2	5.80E-01	-0.007221582
WBGene00013835	0.006308804	8	8.55E-01	-0.012526796
WBGene00013834	-0.120275676	11	4.75E+00	-0.13637316
WBGene00013833	-0.04178143	4	8.39E-01	-0.107618197
WBGene00013832	-0.753378825	12	1.82E+04	-0.866657219
WBGene00013830	-0.019892089	14	1.92E+00	-0.03907277
WBGene00045050	-0.319582571	5	5.72E+00	-0.139393959
WBGene00013831	-0.022430573	12	1.64E+00	-0.131768651
WBGene00013771	-0.757316138	31	3.17E+10	-0.702600809
WBGene00012612	0	2	5.69E-01	-0.00432771
WBGene00077669	-0.001264708	3	6.18E-01	-0.00165202
WBGene00012614	0.020824805	5	6.27E-01	-0.026305602
WBGene00010506	-0.001515715	6	7.84E-01	-0.003903573
WBGene00001700	-0.621207874	43	1.09E+12	-0.660559228
WBGene00010509	-0.175443724	2	1.11E+00	-0.231728533
WBGene00005392	-0.327356376	6	8.70E+00	-0.167588682
WBGene00002118	-0.013822814	1	5.48E-01	0
WBGene00010507	0.056700092	3	4.71E-01	0.043014791
WBGene00185118	0.015927378	1	5.02E-01	0.022526229
WBGene00010508	-0.167851888	13	1.32E+01	-0.142556366
WBGene00010004	-0.111558961	10	3.59E+00	-0.079499373
WBGene00010005	0.00795788	1	5.14E-01	0.004284249
WBGene00010006	0.015284369	46	8.91E+00	-0.059707245
WBGene00001406	-0.107806882	8	2.43E+00	0.057758597
WBGene00303059	-0.225772259	2	1.35E+00	0.260815033
WBGene00009848	0.001523357	6	7.67E-01	0.002084648
WBGene00005147	0.165385144	7	2.13E-01	-0.264668332
WBGene00206505	0.342459355	5	7.77E-02	0.603272016
WBGene00007125	-0.565034464	5	2.81E+01	-0.484651142
WBGene00007124	-0.036096678	3	7.29E-01	-0.114669565
WBGene00007119	0.080893319	5	4.24E-01	0.097635678
WBGene00004413	0.136800293	1	3.53E-01	0.178595377
WBGene00007126	0.190714707	12	1.09E-01	0.689878326
WBGene00007127	-0.113688907	5	1.50E+00	0.03812366
WBGene00007123	-0.194595093	4	1.98E+00	-0.025080623
WBGene00007122	-0.078367761	6	1.38E+00	-0.000152441

WBGene00012615	-0.107682812	9	2.89E+00	-0.013478031
WBGene00012616	0.086551208	6	4.09E-01	-0.403093778
WBGene00012617	-1	3	5.77E+02	-0.895492386
WBGene00012621	-0.511817138	5	1.99E+01	-0.378054072
WBGene00194744	-0.068134967	3	8.47E-01	-0.090306614
WBGene00012622	-0.074296241	5	1.16E+00	0.015782187
WBGene00012624	-0.304892546	11	4.24E+01	-0.027539104
WBGene00005382	-0.292084564	2	1.73E+00	-0.022444757
WBGene00194689	-0.367602439	2	2.31E+00	-0.033724276
WBGene00012625	-0.048268203	7	1.25E+00	-0.122272198
WBGene00012626	-0.04110537	9	1.48E+00	-0.011286184
WBGene00012627	0.000207263	4	6.63E-01	-0.099694744
WBGene00012628	0	2	5.69E-01	0
WBGene00012629	-0.095058608	5	1.33E+00	-0.056944751
WBGene00012630	-0.150000146	2	1.01E+00	0.140965991
WBGene00012632	-0.827158805	14	2.39E+05	-0.514280679
WBGene00012631	-0.287275434	5	4.64E+00	0.167629702
WBGene00012633	-0.011418831	1	5.44E-01	0
WBGene00012634	0.116766073	3	3.55E-01	-0.029582542
WBGene00000015	-0.502911953	2	3.88E+00	-0.684342253
WBGene00009166	-0.117489531	19	1.98E+01	-0.329847224
WBGene00009167	0	2	5.69E-01	0
WBGene00219309	0	2	5.69E-01	-0.005480532
WBGene00009168	-0.259884312	4	2.85E+00	-0.221497213
WBGene00050959	0.0091067	2	5.49E-01	-0.065605743
WBGene00009169	-0.034865449	4	8.07E-01	-0.264980634
WBGene00009170	-0.148593938	3	1.24E+00	-0.164588014
WBGene00009171	-0.103720612	10	3.29E+00	-0.584205452
WBGene00023504	-0.185254933	5	2.39E+00	-0.188506956
WBGene00009172	0.021699173	14	1.05E+00	0.023888513
WBGene00138719	0	2	5.69E-01	0
WBGene00195158	0	1	5.26E-01	-0.027818704
WBGene00009756	-0.86519955	6	4.62E+02	-1
WBGene00000736	-0.306868516	12	6.16E+01	-0.496692066
WBGene00009758	-0.098510254	3	9.77E-01	-0.035256036
WBGene00050892	0	3	6.15E-01	0
WBGene00195243	0	1	5.26E-01	0
WBGene00009759	-0.521359756	4	1.23E+01	-0.430243244
WBGene00001691	-0.69596016	19	1.17E+06	-0.687114606
WBGene00009760	-2	2	3.55E+02	-0.834249115
WBGene00009761	-1	1	2.16E+01	-0.783879049
WBGene00009762	-1	6	1.96E+03	-0.872932642
WBGene00009763	-0.089406671	4	1.10E+00	0.02579554
WBGene00009765	-0.130159891	4	1.38E+00	-0.199298663
WBGene00009766	-0.694168182	5	6.51E+01	-0.180524368
WBGene00009767	-0.024643033	6	9.30E-01	-0.24104839
WBGene00012849	-0.10311157	3	9.99E-01	-0.038743877

WBGene00012848	-0.004631227	3	6.28E-01	-0.00303255
WBGene00012846	-0.056111172	5	1.03E+00	0.024229912
WBGene00012847	-0.352187373	3	3.23E+00	-0.200396645
WBGene00012184	-0.047758032	20	5.93E+00	0.244259896
WBGene00012185	-0.342173054	7	1.42E+01	-0.446476927
WBGene00012186	-0.434087969	49	9.25E+09	-0.381245029
WBGene00009999	0.016281697	6	6.88E-01	0.073004557
WBGene00009998	-0.190347379	10	8.51E+00	-0.13940371
WBGene00010000	-0.556874226	3	8.46E+00	-0.068893268
WBGene00010001	0.386936246	6	4.45E-02	0.126614952
WBGene00077786	0.462039985	8	1.31E-02	0.528781974
WBGene00010002	-0.035146679	11	1.73E+00	0.082679205
WBGene00010003	0.085345218	12	4.16E-01	0.030198382
WBGene00012850	0.155426974	12	1.70E-01	0.193745837
WBGene00012319	-0.216756483	45	1.50E+05	-0.365219441
WBGene00012851	-0.766858227	16	4.56E+05	-1
WBGene00001043	0.123185641	38	1.10E-01	0.303726598
WBGene00012318	0.311331527	4	1.16E-01	0.6162522
WBGene00012321	0.618088067	7	5.02E-03	0.972371803
WBGene00004013	-0.34238494	14	2.09E+02	-0.327585733
WBGene00001248	0.088937501	18	3.93E-01	0.102330451
WBGene00086569	0.676140047	3	2.55E-02	0.491835813
WBGene00009528	-0.395744976	9	5.25E+01	0.121555827
WBGene00001851	2	15	4.48E-11	1
WBGene00012852	0.036176205	1	4.74E-01	0.058616141
WBGene00012853	0.150114989	2	3.21E-01	-0.014364757
WBGene00012854	-0.232156704	5	3.24E+00	-0.00067054
WBGene00004748	-0.018598374	11	1.42E+00	0.162740324
WBGene00012855	-0.160065619	11	7.61E+00	-0.273194014
WBGene00012856	0.073766084	10	4.71E-01	0.068740286
WBGene00077681	0.030993008	5	5.87E-01	0.177790915
WBGene00011394	0.262267925	2	2.09E-01	0.270543326
WBGene00011393	0.079003763	18	4.70E-01	0.152527423
WBGene00001547	-0.243075489	13	3.67E+01	-0.255537268
WBGene00001723	0.74279884	6	3.21E-03	0.634380481
WBGene00011392	1	6	4.56E-04	0.758632288
WBGene00003830	0.141364224	23	1.19E-01	0.165009119
WBGene00011391	-0.055066808	2	7.02E-01	0.043569821
WBGene00009289	-0.022374457	7	1.01E+00	0.148079614
WBGene00009290	0.227669112	17	3.62E-02	0.089151974
WBGene00001431	0.4326659	13	3.66E-03	-0.281407014
WBGene00009291	0.112336393	5	3.46E-01	-0.030769006
WBGene00009294	0.255886895	2	2.14E-01	0.09445112
WBGene00009292	-0.034539874	11	1.72E+00	0.097879907
WBGene00006622	-0.218663425	6	3.90E+00	-0.097813682
WBGene00006687	0.26117371	7	9.64E-02	0.354315811
WBGene00009293	0.000630866	3	6.13E-01	0.008390373

WBGene00006812	1	57	5.14E-28	1
WBGene00000139	0.234184571	11	7.12E-02	0.382909724
WBGene00009106	0.097775213	3	3.88E-01	-0.07414619
WBGene00044187	-0.253964154	10	1.71E+01	-0.209135121
WBGene00012857	0.233158354	20	2.23E-02	0.326867482
WBGene00022203	0.059801762	15	6.20E-01	-0.14516096
WBGene00022221	-0.103910932	7	1.98E+00	-0.063723964
WBGene00022219	-0.014935398	28	6.39E+00	0.034672388
WBGene00022218	0	3	6.15E-01	0
WBGene00022206	-0.084575592	17	7.80E+00	0.053775289
WBGene00022207	0	5	7.18E-01	0.059564068
WBGene00022217	-0.031047057	5	8.78E-01	-0.000144871
WBGene00045295	0.087359134	6	4.07E-01	-0.094493466
WBGene00022216	0	2	5.69E-01	0
WBGene00022215	-0.437047379	14	8.25E+02	-0.473522053
WBGene00022209	-0.05075149	6	1.13E+00	-0.368235851
WBGene00022210	-0.664965279	3	1.41E+01	-1
WBGene00022213	0.573595915	9	3.04E-03	0.002931156
WBGene00011606	0.054437826	2	4.62E-01	0
WBGene00011609	-0.766417419	3	2.27E+01	-0.019789091
WBGene00011610	-0.139607364	8	3.26E+00	-0.001828987
WBGene00011611	0.009304331	3	5.88E-01	-0.08949049
WBGene00011612	0	11	1.14E+00	0.015799749
WBGene00011613	0	5	7.18E-01	0
WBGene00022223	-0.238863609	9	1.08E+01	-0.357433593
WBGene00022225	-0.391658463	1	1.65E+00	-0.060196148
WBGene00022224	-0.431982574	6	1.89E+01	-0.382674776
WBGene00007076	0	6	7.76E-01	0
WBGene00007075	0	7	8.38E-01	0
WBGene00007079	0	5	7.18E-01	0
WBGene00043989	0	6	7.76E-01	0
WBGene00043988	0	7	8.38E-01	0
WBGene00043990	0	5	7.18E-01	0
WBGene00022431	-0.186060859	21	1.18E+02	-0.307068012
WBGene00022433	-0.230303384	10	1.32E+01	0.008147292
WBGene00022429	0	8	9.06E-01	-0.000625298
WBGene00021615	0	14	1.44E+00	-0.014873252
WBGene00020083	0.035862092	7	6.23E-01	-0.250868288
WBGene00020082	0.277263242	16	1.83E-02	-0.030290758
WBGene00019734	0.078464084	5	4.31E-01	0.144888454
WBGene00284848	-0.261192779	5	3.91E+00	0.032617855
WBGene00023458	0	2	5.69E-01	0
WBGene00019733	0.187382818	21	5.05E-02	0.199753875
WBGene00015430	0.049065995	37	1.53E+00	0.044762495
WBGene00015429	0.0687742	6	4.67E-01	0.329899436
WBGene00015428	-0.274026909	4	3.08E+00	0.047955318
WBGene00045270	-0.007956327	4	6.94E-01	0.000978321

WBGene00019862	0.434127555	16	1.41E-03	0.422462457
WBGene00019863	0.000864875	11	1.13E+00	-0.214835311
WBGene00002060	0.237558324	5	1.53E-01	0.136173311
WBGene00019864	-0.091783417	13	4.66E+00	0.173449665
WBGene00195183	-0.013625848	2	5.99E-01	-0.004477536
WBGene00044281	-0.039228316	5	9.26E-01	-0.050682747
WBGene00019865	-0.281208954	18	3.19E+02	-0.594107197
WBGene00019861	-0.425074178	3	4.55E+00	0.146720566
WBGene00022858	0.078806077	43	5.65E-01	0.104554856
WBGene00000608	0.070349085	4	4.48E-01	-0.000886602
WBGene00022861	-0.231665468	21	3.05E+02	-0.122327686
WBGene00018683	-0.001656405	7	8.50E-01	-0.00149407
WBGene00004127	-0.110139168	20	2.05E+01	-0.132769247
WBGene00018682	-0.242038435	11	2.01E+01	-0.104086281
WBGene00044556	-0.020064142	8	1.09E+00	-0.27339967
WBGene00000484	0.137565504	16	1.78E-01	0.176291555
WBGene00001185	0.773465984	4	8.73E-03	0.635732209
WBGene00015137	0.378900512	10	1.66E-02	0.664086941
WBGene00015138	-0.149462779	14	1.26E+01	-0.11934755
WBGene00015139	-0.067793911	15	4.43E+00	0.072683934
WBGene00015141	-0.250634645	12	3.01E+01	-0.192042917
WBGene00015142	-0.206720245	1	9.63E-01	-0.163833247
WBGene00017898	0.055799295	10	5.74E-01	0.226631442
WBGene00017899	-0.146277736	4	1.51E+00	0.099407376
WBGene00017896	-0.623981173	8	2.77E+02	-0.666177256
WBGene00019014	-0.006977795	2	5.84E-01	-0.017986686
WBGene00194687	-0.062882618	4	9.45E-01	-0.053088982
WBGene00001962	0	5	7.18E-01	0
WBGene00003554	-0.21719046	14	3.38E+01	-0.097336842
WBGene00003408	-0.172799291	31	9.13E+02	-0.305134426
WBGene00003407	0.071163951	28	6.24E-01	-0.003173026
WBGene00017423	0.413688301	7	2.73E-02	0.580099968
WBGene00017424	0.036916236	6	5.90E-01	0.120814534
WBGene00017422	-0.037689416	7	1.14E+00	-0.090748554
WBGene00017426	-0.050130885	18	4.87E+00	0.125941692
WBGene00006825	0.008524948	23	2.39E+00	0.051781598
WBGene00019776	-0.373120255	12	1.43E+02	-0.370424853
WBGene00004011	-0.113173519	7	2.14E+00	-0.126126986
WBGene00206478	-0.084434072	3	9.15E-01	0.123737126
WBGene00002056	-0.734617305	42	5.14E+13	-0.590927532
WBGene00020571	-0.008141937	10	1.16E+00	0.196919984
WBGene00020572	-0.12332484	15	1.04E+01	0.28245719
WBGene00020573	0.250755918	5	1.41E-01	-0.01126317
WBGene00020574	-0.000781326	1	5.28E-01	-0.017650853
WBGene00020569	-0.136462458	11	5.76E+00	-0.119161903
WBGene00020575	-0.142394014	8	3.34E+00	-0.321719392
WBGene00021185	-0.435371305	6	1.93E+01	-0.325874262

WBGene00017184	0.124931713	27	1.51E-01	0.124417906
WBGene00002150	0.001336084	18	1.92E+00	0.077655987
WBGene00019722	-0.014547232	2	6.01E-01	-0.075892898
WBGene00004829	-0.049132162	16	3.75E+00	0.106961208
WBGene00015364	0.152268301	10	1.99E-01	-0.182220599
WBGene00000086	0.314321924	23	2.41E-03	0.403694395
WBGene00001127	0.09843472	10	3.60E-01	-0.149328432
WBGene00020216	0.335191403	4	1.02E-01	0.251261692
WBGene00002071	0.176603816	6	2.10E-01	0.082653809
WBGene00020218	0.747539416	4	1.01E-02	0.273595855
WBGene00020215	-0.216178415	6	3.83E+00	-0.016313741
WBGene00003534	-0.564393379	11	9.17E+02	-0.810334934
WBGene00020217	-0.579810793	16	2.16E+04	-0.401769002
WBGene00020214	-0.502172462	22	1.43E+05	-0.070601142
WBGene00017779	-0.150427527	5	1.91E+00	0.188627648
WBGene00017780	-0.415745504	17	2.33E+03	-0.490672754
WBGene00017781	0.452787709	7	1.97E-02	-0.259560275
WBGene00002058	0.168576639	6	2.23E-01	0.049549515
WBGene00000899	0.158999249	16	1.26E-01	0.103019291
WBGene00018213	-0.085231396	10	2.69E+00	-0.043338704
WBGene00018212	0.189253787	15	8.42E-02	0.228533276
WBGene00018214	0.43669882	9	1.21E-02	0.265990292
WBGene00018215	0.003527985	15	1.48E+00	0.217765867
WBGene00018985	0.340549157	10	2.53E-02	0.406140098
WBGene00018986	0.696249923	8	1.53E-03	0.978705579
WBGene00018987	0.397309695	15	3.40E-03	0.470118115
WBGene00018984	-0.432602748	11	1.92E+02	-0.139853311
WBGene00022502	0.059417854	9	5.38E-01	-0.084879666
WBGene00022503	-0.092135215	7	1.80E+00	-0.154440735
WBGene00022504	-0.358076679	16	5.80E+02	-0.368625337
WBGene00003104	-0.154786888	12	8.87E+00	-0.103406015
WBGene00044557	-0.396251294	7	2.23E+01	-0.206356557
WBGene00018078	-0.320113942	6	8.25E+00	0.39379139
WBGene00004769	-0.103098665	5	1.40E+00	0.13086258
WBGene00018077	0.193289082	10	1.27E-01	0.389702084
WBGene00018076	0.212886872	15	5.85E-02	0.052337935
WBGene00018075	-0.16930707	29	5.21E+02	-0.357222361
WBGene00018074	0.444952991	9	1.11E-02	0.780725394
WBGene00018779	-0.128858025	11	5.26E+00	-0.102069127
WBGene00004893	0.322984854	11	2.49E-02	0.194503478
WBGene00000195	0.109225959	5	3.53E-01	0.218076339
WBGene00000164	0.193015508	10	1.28E-01	0.179036893
WBGene00016642	-0.009038982	4	6.99E-01	0.210099191
WBGene00003563	-0.29217665	5	4.79E+00	-0.07040366
WBGene00016645	0.123482873	3	3.44E-01	0.272325229
WBGene00016643	0.321838923	15	1.09E-02	0.326149683
WBGene00016644	0.032892553	8	6.70E-01	0.203515723

WBGene00016641	-0.01969183	5	8.16E-01	0.003873476
WBGene00000958	0.621193499	18	2.58E-05	0.430089225
WBGene00303038	0.017762159	1	5.00E-01	-0.025980719
WBGene00018861	-0.261829113	16	1.21E+02	-0.023854737
WBGene00018854	1	12	1.98E-06	0.878860211
WBGene00303062	0.299967588	1	2.19E-01	0.398761576
WBGene00018855	0.076277564	3	4.29E-01	-0.147910854
WBGene00018857	0.147698639	26	8.79E-02	0.052174816
WBGene00018853	0	2	5.69E-01	-0.014137068
WBGene00018859	0	2	5.69E-01	-0.012957572
WBGene00018860	-0.001984282	22	2.80E+00	0.143531591
WBGene00003565	0.050019946	5	5.19E-01	0.36756459
WBGene00006741	0.292648566	12	2.97E-02	0.972749891
WBGene00019364	0.190444477	5	2.08E-01	0.356270117
WBGene00002988	0.041670503	11	6.97E-01	0.01399148
WBGene00003991	0.341515959	7	4.96E-02	-0.049294315
WBGene00019365	0.475176116	10	5.80E-03	0.088770066
WBGene00018634	-0.044191686	2	6.73E-01	0.076168451
WBGene00004377	0.066078808	16	5.73E-01	0.106877934
WBGene00002062	0.39701817	8	2.37E-02	-0.192469661
WBGene00015473	0.022939275	3	5.52E-01	0.116093742
WBGene00015472	0.194985929	20	4.75E-02	0.260626781
WBGene00015474	-0.256588336	8	9.53E+00	-0.267317391
WBGene00015476	-0.052746551	3	7.88E-01	0.01892103
WBGene00015471	-0.152942444	9	4.56E+00	0.004973935
WBGene00004927	0.034918247	18	1.04E+00	0.155590395
WBGene00020128	-0.221167819	44	1.37E+05	-0.235684075
WBGene00020129	-1	12	1.16E+06	-1
WBGene00020127	-0.540282407	4	1.37E+01	-0.612626445
WBGene00020490	0.129779476	38	8.72E-02	0.179352812
WBGene00020489	0.447417264	27	3.30E-05	0.457610429
WBGene00020491	-0.38588755	14	3.92E+02	-0.116859077
WBGene00020488	-0.66372784	3	1.40E+01	0.018307951
WBGene00020492	-0.432012853	9	7.57E+01	-0.49894976
WBGene00020494	-0.591550394	7	1.12E+02	-1
WBGene00016724	-0.542428438	7	7.47E+01	-0.706531378
WBGene00016725	0.052769696	50	2.00E+00	0.064282113
WBGene00016108	-0.162849331	16	2.40E+01	-0.146733741
WBGene00006635	0.111289716	3	3.64E-01	0.282532636
WBGene00016109	0.360630958	4	8.81E-02	0.666884171
WBGene00016110	-0.121676899	13	7.01E+00	0.026256659
WBGene00016107	-0.229745773	3	1.81E+00	-0.250183806
WBGene00016874	-0.081349905	4	1.05E+00	-0.07966098
WBGene00016873	-0.430653158	3	4.67E+00	-0.329101877
WBGene00016872	-0.378053206	12	1.53E+02	-0.292053857
WBGene00016871	-0.07173111	21	1.10E+01	-0.111099409
WBGene00019272	-0.667762215	14	2.36E+04	-0.56782527

WBGene00003965	0.13764179	20	1.49E-01	-0.006430602
WBGene00017666	-0.185945555	6	3.06E+00	-0.19794065
WBGene00017667	-0.523259656	8	1.10E+02	-0.323856664
WBGene00017668	-0.179705018	7	3.71E+00	-0.026174642
WBGene00018940	-0.124029704	4	1.33E+00	-0.276617498
WBGene00018941	-0.646714059	13	9.01E+03	-0.532834558
WBGene00018942	-0.931211769	6	7.53E+02	-0.820059322
WBGene00018943	-0.118985166	7	2.24E+00	0.109909154
WBGene00018944	-0.025773932	3	6.94E-01	0.060411504
WBGene00018939	-0.085162762	4	1.07E+00	0.001254124
WBGene00044558	0.038127974	2	4.92E-01	0.417344184
WBGene00018945	0.041776524	1	4.66E-01	-0.069479951
WBGene00018938	-0.10445248	7	1.99E+00	-0.507593313
WBGene00018946	-0.08304624	3	9.09E-01	0.038608416
WBGene00019267	-0.999169116	1	9.76E+00	-0.156129303
WBGene00022731	-0.32484839	10	3.72E+01	-0.288776009
WBGene00022730	-0.1351373	3	1.16E+00	-0.028320683
WBGene00022729	-0.435322598	2	2.99E+00	-0.348841212
WBGene00022728	-0.953329916	12	2.33E+05	-0.991735507
WBGene00000025	-0.039838067	2	6.62E-01	0.024427894
WBGene00005244	-0.012045855	6	8.48E-01	0.040001563
WBGene00017612	0	1	5.26E-01	0.015670093
WBGene00195184	0.036324883	2	4.95E-01	0.032713311
WBGene00195185	-0.30085098	4	3.58E+00	0.001377692
WBGene00017611	-0.025338175	3	6.93E-01	-0.014382674
WBGene00195188	-0.251505702	1	1.10E+00	0.060289444
WBGene00017610	0.055008975	7	5.31E-01	-0.044473716
WBGene00017609	-0.006689185	2	5.84E-01	0.026049249
WBGene00021045	-0.006333861	2	5.83E-01	0.001083529
WBGene00021046	0.361072902	4	8.79E-02	0.159606635
WBGene00021047	0.373758072	18	2.27E-03	0.402681072
WBGene00021044	-0.117438568	6	1.85E+00	-0.253932979
WBGene00016997	0.408288966	5	5.06E-02	0.039002647
WBGene00016996	-0.402643376	17	1.86E+03	-0.279707836
WBGene00017000	-0.357394304	5	7.31E+00	-0.265195539
WBGene00016999	-0.263244281	6	5.42E+00	-0.028239515
WBGene00016995	0.444281411	33	5.28E-06	0.123275909
WBGene00016998	0.188408663	3	2.53E-01	-0.298257425
WBGene00206384	0.210605821	1	2.84E-01	-0.318713601
WBGene00000988	-0.146044345	7	2.81E+00	0.17489632
WBGene00017295	-0.050168688	10	1.83E+00	-0.178357731
WBGene00017296	-0.010991982	5	7.71E-01	-0.031334266
WBGene00017297	0.192550474	4	2.26E-01	0.284529652
WBGene00017294	-0.21211937	4	2.18E+00	-0.457277938
WBGene00017298	-0.004214575	28	4.78E+00	-0.21421642
WBGene00019437	0.224904462	7	1.30E-01	-0.271856439
WBGene00019436	-0.01787483	16	2.25E+00	0.113957284

WBGene00019435	-0.66288894	80	3.35E+23	-0.789143641
WBGene00019146	-1	49	5.37E+26	-1
WBGene00019145	-0.221993885	5	3.03E+00	-0.163052944
WBGene00006955	-0.165339111	41	6.94E+03	-0.007151923
WBGene00019188	0.501586391	42	3.10E-08	0.452278308
WBGene00019187	-0.094190255	8	2.15E+00	-0.021973203
WBGene00019186	-0.416303658	6	1.68E+01	-0.107922383
WBGene00022723	-0.189015577	14	2.25E+01	-0.144154942
WBGene00044559	-0.30016687	3	2.53E+00	-0.441179424
WBGene00022724	-0.023944187	6	9.26E-01	0.000672467
WBGene00006551	-0.647471231	11	2.45E+03	-0.160657509
WBGene00043469	-0.453004277	2	3.20E+00	-0.182373578
WBGene00019991	0.013233839	9	8.57E-01	-0.027094926
WBGene00006550	-0.584038443	18	7.66E+04	-0.479526517
WBGene00016486	-0.109816164	10	3.52E+00	0.054292068
WBGene00016485	-0.878063021	20	8.78E+07	-1
WBGene00044560	0	1	5.26E-01	0
WBGene00016487	-0.415288808	10	1.00E+02	-0.628959875
WBGene00016488	-0.079219798	9	2.17E+00	-0.087082917
WBGene00017224	0	1	5.26E-01	0
WBGene00017225	0	2	5.69E-01	-0.004951382
WBGene00044583	-0.098698632	5	1.36E+00	-0.555003715
WBGene00017226	-0.288236123	6	6.52E+00	-0.239752135
WBGene00017227	-0.066384588	2	7.33E-01	-0.003657686
WBGene00017223	-0.063813225	6	1.24E+00	-0.163567552
WBGene00017222	-0.169427104	6	2.71E+00	-0.134374365
WBGene00017221	0	4	6.64E-01	0
WBGene00045271	-0.03939561	7	1.16E+00	-0.158692616
WBGene00022291	-0.126425811	3	1.11E+00	-0.146877445
WBGene00022292	0.127951635	4	3.24E-01	-0.190685696
WBGene00044561	0	2	5.69E-01	0
WBGene00022290	-0.139408086	4	1.45E+00	-0.362532453
WBGene00001237	-1	6	2.12E+03	-0.716219248
WBGene00017942	-0.928324888	6	7.37E+02	-0.832299683
WBGene00000185	-0.1925363	5	2.51E+00	-0.378926543
WBGene00206378	-0.399914689	13	3.11E+02	-0.719896353
WBGene00015772	-0.077431427	6	1.37E+00	-0.07761672
WBGene00044562	-1	4	5.57E+02	-0.433869644
WBGene00015773	-0.224025737	6	4.06E+00	-0.030292756
WBGene00015774	0	4	6.64E-01	-0.036685208
WBGene00015770	-0.146488722	3	1.23E+00	0.068884614
WBGene00015775	-0.102429289	3	9.96E-01	-0.035238029
WBGene00020829	0.744768081	9	5.44E-04	0.882968759
WBGene00020828	0.354950448	1	1.87E-01	0.707442755
WBGene00020830	0.40743581	16	2.19E-03	0.68439016
WBGene00000462	0.018713543	9	8.11E-01	0.307401577
WBGene00000444	0.321013699	8	4.77E-02	0.258754557

WBGene00194679	0.670600888	8	1.93E-03	0.297099212
WBGene00000460	0.908867685	13	5.54E-06	0.721918079
WBGene00044563	0.119674693	4	3.40E-01	0.141644147
WBGene00006560	0.168534682	5	2.40E-01	-0.0407818
WBGene00015118	0.014468146	4	6.12E-01	-0.142301358
WBGene00015117	-0.058611554	5	1.05E+00	-0.496782326
WBGene00022508	-0.195843279	23	2.40E+02	-0.743081564
WBGene00004352	-0.086610878	4	1.08E+00	-0.070704261
WBGene00022512	-0.531273629	11	6.19E+02	-0.503181244
WBGene00022509	-0.451425552	4	8.32E+00	-0.280455988
WBGene00022511	-0.123000283	56	2.25E+04	-0.062227866
WBGene00021987	0.742299696	7	1.80E-03	0.638862187
WBGene00021988	0	6	7.76E-01	0
WBGene00018684	0	4	6.64E-01	0
WBGene00004351	-0.006884608	6	8.16E-01	0
WBGene00018691	0	3	6.15E-01	0
WBGene00018689	-0.134351148	13	8.33E+00	0.024554293
WBGene00006139	0.036891823	3	5.17E-01	-0.086858899
WBGene00018687	-0.068204233	3	8.47E-01	-0.121858861
WBGene00018688	-0.623394251	6	7.75E+01	-0.477579773
WBGene00219451	-0.413888662	12	2.41E+02	-0.214791464
WBGene00018690	0.369097242	6	5.08E-02	0.399233173
WBGene00001569	0.047105761	22	9.66E-01	0.295733662
WBGene00021484	0.022448717	9	7.81E-01	-0.271601017
WBGene00021485	0.267267248	9	6.64E-02	0.048478954
WBGene00022419	-0.009527362	10	1.17E+00	-0.04409606
WBGene00022413	-0.670602326	33	9.32E+09	-0.559379542
WBGene00022412	-0.11804765	13	6.67E+00	-0.111350886
WBGene00022415	-0.026548323	5	8.53E-01	-0.05390996
WBGene00022416	-0.100874993	9	2.70E+00	-0.114081295
WBGene00022417	-0.047260595	4	8.65E-01	0.026463741
WBGene00022418	0.042092704	20	9.94E-01	-0.066546104
WBGene00022411	-0.396480157	7	2.23E+01	-0.240177032
WBGene00044753	-0.167727524	3	1.35E+00	0.23977498
WBGene00018657	-0.080535364	17	7.27E+00	-0.136473045
WBGene00018656	-0.103079662	4	1.18E+00	-0.506931895
WBGene00018655	0.429460428	4	5.99E-02	0.218398104
WBGene00018654	-0.173599338	2	1.10E+00	-0.206555824
WBGene00018653	-0.066975832	1	6.40E-01	-0.099308918
WBGene00003087	0.136274354	8	2.59E-01	0.189948655
WBGene00000737	-0.128102396	7	2.42E+00	-0.253827888
WBGene00020645	0	2	5.69E-01	-0.204327415
WBGene00018736	-0.114359697	3	1.05E+00	-0.018733663
WBGene00018735	-0.060981161	5	1.07E+00	-0.168859643
WBGene00018737	-0.706082203	9	1.19E+03	-0.574042874
WBGene00018738	-0.74780168	18	1.48E+06	-0.746552877
WBGene00001667	-0.388972929	10	7.50E+01	0.038825598

WBGene00018739	0.560870905	27	1.70E-06	0.624045786
WBGene00044565	0	1	5.26E-01	0
WBGene00001065	-0.561460773	7	8.75E+01	-0.576010775
WBGene00018591	-0.350986	5	7.01E+00	-0.162400219
WBGene00018590	-0.533997137	4	1.32E+01	-0.589995753
WBGene00018589	-0.558918322	25	2.75E+06	-0.586808545
WBGene00018593	-0.419041433	10	1.04E+02	-0.100831058
WBGene00018587	-0.15046414	12	8.40E+00	-0.101494153
WBGene00001515	-0.361132852	16	6.09E+02	-0.206829604
WBGene00020765	-0.873451438	24	2.47E+09	-0.896027465
WBGene00020764	-0.892723543	6	5.67E+02	-0.929006491
WBGene00020766	-1	6	1.55E+04	-2
WBGene00003968	0.01239883	17	1.47E+00	-0.330214236
WBGene00020509	0.581566203	18	5.28E-05	0.735832374
WBGene00003018	0.427136457	2	1.11E-01	1
WBGene00020508	1	11	3.28E-06	0.702755309
WBGene00020507	0.828561001	9	2.34E-04	1
WBGene00004423	1	6	2.12E-04	0.599716634
WBGene00014998	0.266332159	7	9.24E-02	0.203640466
WBGene00000797	-0.177407547	9	5.83E+00	-0.274780766
WBGene00014999	0.01142129	4	6.23E-01	0.403654152
WBGene00044701	0.309136239	12	2.40E-02	0.537965671
WBGene00015000	-0.011288611	12	1.43E+00	0.141624173
WBGene00020427	-0.030578975	13	2.02E+00	0.237076317
WBGene00020426	-0.825766057	15	5.28E+05	-0.915995025
WBGene00002039	-0.246896459	42	2.18E+05	-0.400175884
WBGene00020135	0.287796606	17	1.29E-02	-0.276750516
WBGene00020134	-0.203311846	45	8.49E+04	0.056471263
WBGene00020136	-0.057962769	3	8.08E-01	0.723787358
WBGene00003760	-0.009186796	5	7.62E-01	-0.190517118
WBGene00003761	-0.411924202	4	6.67E+00	0.169507571
WBGene00003740	-0.237016854	6	4.47E+00	0.250921276
WBGene00020767	0.882626389	14	3.89E-06	0.394211526
WBGene00020769	0.070280843	1	4.29E-01	0.012024172
WBGene00018578	-0.194880662	11	1.15E+01	0.150208348
WBGene00194641	0	2	5.69E-01	-0.000566936
WBGene00018576	-0.191865039	15	3.00E+01	-0.407022209
WBGene00016619	-0.516181715	8	1.03E+02	-0.369090989
WBGene00016620	-0.195030807	11	1.15E+01	-0.127688668
WBGene00016617	0.115096841	9	3.07E-01	0.015665918
WBGene00016616	-0.06724412	7	1.46E+00	0.056433445
WBGene00016614	0.124700127	10	2.70E-01	0.001268734
WBGene00303045	0.017455416	2	5.32E-01	-0.01430355
WBGene00001959	0	1	5.26E-01	0
WBGene00001618	0.0394996	13	7.79E-01	-0.05925212
WBGene00001551	-0.613382508	24	5.54E+06	-0.507593148
WBGene00020301	0.030874336	25	1.59E+00	-0.151102951

WBGene00020302	-0.630566101	2	6.31E+00	-0.063205279
WBGene00001484	0.231878992	19	2.60E-02	0.067593955
WBGene00019866	-0.130394996	11	5.36E+00	-0.38359234
WBGene00019867	-0.171324822	4	1.73E+00	0.035270097
WBGene00019868	-0.238883819	7	6.06E+00	-0.422582547
WBGene00019319	-0.178788882	6	2.90E+00	-0.200153535
WBGene00019320	-0.510756856	10	2.85E+02	-0.347062759
WBGene00019318	-0.30934413	16	2.62E+02	-0.085291664
WBGene00001844	0.059025036	9	5.40E-01	0.023073879
WBGene00019317	0.046593205	14	7.33E-01	0.045633375
WBGene00019321	-0.143345845	20	3.97E+01	-0.035313138
WBGene00006365	0.654559049	18	1.41E-05	0.736067182
WBGene00044061	2	18	2.53E-12	2
WBGene00018715	0.901550844	4	4.26E-03	-0.072787547
WBGene00018716	0.505445929	7	1.28E-02	0.429480757
WBGene00000004	1	17	1.01E-09	1
WBGene00018717	0.151106595	6	2.54E-01	0.085515639
WBGene00018718	0.092968329	10	3.82E-01	0.165063592
WBGene000206381	0.016053889	1	5.02E-01	-0.000486914
WBGene00018719	-0.019089763	29	7.86E+00	-0.182089708
WBGene00018714	0.011927463	6	7.10E-01	0.027993121
WBGene00045268	0.340015732	5	7.89E-02	-0.024320581
WBGene00019143	0.019410593	4	5.96E-01	-0.215215911
WBGene00019144	-0.528523417	7	6.66E+01	-0.299113194
WBGene00003630	0.109879702	36	1.86E-01	0.408499542
WBGene00303074	0.049892656	1	4.55E-01	0.101330545
WBGene00020194	0.039547535	4	5.32E-01	0.233061693
WBGene00020195	0.791357255	18	1.18E-06	0.326648948
WBGene00018837	0.155165443	99	8.47E-04	0.238434797
WBGene00018838	0.165499064	15	1.21E-01	0.699992082
WBGene00015621	-0.211090966	8	6.28E+00	-0.135977224
WBGene00004780	-0.267101706	22	8.75E+02	-0.225615194
WBGene00020511	0.119647318	17	2.32E-01	0.176671517
WBGene00020510	0.309848431	5	9.60E-02	0.197652734
WBGene00020158	0.884248736	11	3.22E-05	1
WBGene00020160	0.00449167	19	1.95E+00	0.275194166
WBGene00006742	0.287460897	118	1.80E-10	0.200754809
WBGene00018888	0.003116821	1	5.22E-01	-0.001950425
WBGene00006496	-0.042582493	57	3.84E+02	0.07710096
WBGene00015748	0.937060995	5	1.63E-03	2
WBGene00015750	-0.078208121	5	1.19E+00	0.349169473
WBGene00050944	0.010988942	5	6.68E-01	0.286322406
WBGene00015751	0.096915587	10	3.66E-01	0.061777466
WBGene00006632	0.036781483	4	5.41E-01	0.089084253
WBGene00006055	0.030849422	4	5.59E-01	0.02965091
WBGene00022201	0.081975955	11	4.33E-01	0.219760899
WBGene00002210	0.203709653	17	5.47E-02	0.296581442

WBGene00018740	0.155404495	13	1.60E-01	0.255025769
WBGene00018741	-0.257856387	11	2.43E+01	0.015664461
WBGene00018744	-0.574357785	13	3.36E+03	-0.175396195
WBGene00018742	-0.967374627	13	7.14E+05	-0.679564957
WBGene00018743	-0.107301312	10	3.43E+00	-0.027236537
WBGene00015171	-0.014860348	4	7.22E-01	-0.071520249
WBGene00015172	-0.186807049	6	3.08E+00	-0.244583588
WBGene00044304	0.020971762	21	1.60E+00	0.31389393
WBGene00015170	0.03567205	1	4.74E-01	0.018392529
WBGene00003776	0.236556356	35	2.80E-03	0.102763175
WBGene00044303	-0.229867906	15	5.40E+01	0.041203529
WBGene00022200	-0.016752768	12	1.53E+00	0.017696106
WBGene00022199	0.225564795	19	2.93E-02	0.263819037
WBGene00044901	-0.225620854	6	4.11E+00	-0.90285665
WBGene00021529	0.015438193	7	7.38E-01	-0.10074338
WBGene00021528	0.064871544	19	6.20E-01	0.091653891
WBGene00021527	0.034402549	11	7.60E-01	-0.04190336
WBGene00021526	0.009888612	2	5.48E-01	-0.119457911
WBGene00003885	-0.050637442	15	3.40E+00	-0.085453097
WBGene00021530	-0.043770123	13	2.42E+00	-0.036389745
WBGene00021656	0.069586902	2	4.36E-01	-0.055549629
WBGene00001461	0.135443077	21	1.49E-01	0.142291066
WBGene00000175	0.469538248	14	1.57E-03	-0.081619713
WBGene00019735	0.981858059	19	1.69E-08	0.640507459
WBGene00019738	0.235502364	1	2.64E-01	0.218510065
WBGene00019736	0.699126946	2	3.95E-02	0.561969976
WBGene00016343	0.922594059	22	5.57E-09	1
WBGene00006679	-0.076509167	6	1.36E+00	0.069214598
WBGene00016344	-0.334086038	15	2.69E+02	0.0235319
WBGene00000451	-0.756769061	8	9.36E+02	0.079239994
WBGene00000452	-0.354949132	10	5.17E+01	0.085749438
WBGene00006670	-0.295683259	12	5.34E+01	-0.133479072
WBGene00018702	-0.053779563	4	8.98E-01	-0.438498788
WBGene00018701	0.800355313	10	1.64E-04	0.480980797
WBGene00006948	0.297698232	8	5.90E-02	0.263578963
WBGene00018703	-0.129892565	11	5.33E+00	0.217954937
WBGene00018704	-0.220640838	7	5.21E+00	-0.169552485
WBGene00019611	0.196916791	9	1.35E-01	0.286019305
WBGene00019612	0.152751894	12	1.76E-01	0.036519173
WBGene00001685	0.167116117	7	2.10E-01	-0.257642898
WBGene00001684	0.42554433	8	1.83E-02	-0.078353924
WBGene00003124	0.594706364	7	6.10E-03	-0.151309033
WBGene00004951	0.649863792	63	2.30E-15	-0.005143514
WBGene00019609	-0.551807593	4	1.46E+01	-0.24801706
WBGene00015790	0.041883153	9	6.42E-01	-0.642569662
WBGene00015791	-0.200898428	3	1.58E+00	-0.045930081
WBGene00002220	-0.095025675	16	7.93E+00	-0.010107839

WBGene00015789	-0.508704927	5	1.95E+01	-0.574161729
WBGene00015793	-0.773911964	12	2.37E+04	-0.224912032
WBGene00015792	-0.187603233	9	6.47E+00	-0.268305529
WBGene00002217	0.235637417	26	9.55E-03	0.655171114
WBGene00001400	0.011290012	12	1.07E+00	-0.05026849
WBGene00017890	-0.191598599	2	1.18E+00	0.139169128
WBGene00017893	-0.211094948	8	6.28E+00	-0.34046435
WBGene00017891	-0.297644516	32	5.25E+04	-0.486119643
WBGene00017892	-0.877847524	37	1.99E+14	-0.96478474
WBGene00018237	-0.752126867	45	9.71E+14	-0.608858703
WBGene00018238	0.479355735	8	1.12E-02	0.542445269
WBGene00004124	-0.003223787	10	1.10E+00	-0.117477084
WBGene00006535	-0.773058479	13	5.05E+04	-0.680796386
WBGene00002255	-0.21343104	7	4.91E+00	-0.991947667
WBGene00002253	-0.280872456	3	2.31E+00	0.786057154
WBGene00002254	0.057892021	5	4.93E-01	0.143224506
WBGene00018236	-0.074184135	11	2.75E+00	-0.280840102
WBGene00006308	0.237817363	11	6.82E-02	0.052006781
WBGene00019553	0.282948794	3	1.62E-01	0.682116426
WBGene00019552	-0.220623506	3	1.74E+00	-0.355157819
WBGene00019551	-0.018391999	1	5.55E-01	0.03919725
WBGene00019554	-0.248812739	11	2.18E+01	0.290506213
WBGene00019550	0	5	7.18E-01	0
WBGene00019549	-0.083234913	11	3.06E+00	-0.11928551
WBGene00019548	-0.414674663	6	1.66E+01	-0.238937575
WBGene00019547	-0.298924619	7	9.96E+00	-0.078886444
WBGene00017382	0.020433054	7	7.08E-01	-0.190907318
WBGene00043980	-0.1872839	6	3.09E+00	-0.112032569
WBGene00017381	0.037041356	14	8.42E-01	0.015093784
WBGene00017383	-0.00777008	1	5.38E-01	-0.041982208
WBGene00017380	0.1478223	31	6.67E-02	0.202822765
WBGene00022826	2	2	7.19E-04	3
WBGene00022827	2	7	8.65E-07	2
WBGene00022825	-0.021017978	3	6.79E-01	0.210731044
WBGene00000989	0.020300135	9	7.98E-01	-0.029260827
WBGene00022767	1	15	3.76E-09	1
WBGene00000524	1	5	1.02E-04	1
WBGene00022769	0.426678067	7	2.45E-02	1
WBGene00044355	-0.224525361	7	5.38E+00	0.129420915
WBGene00022770	0.043706984	6	5.62E-01	0.295880303
WBGene00006865	-0.200806131	16	4.46E+01	-0.081488168
WBGene00000503	-0.111125416	11	4.26E+00	-0.157267257
WBGene00006929	-0.163879328	29	4.48E+02	-0.194151235
WBGene00006810	0.797814756	12	4.75E-05	0.370376048
WBGene00000990	0.082169819	2	4.16E-01	-0.053182326
WBGene00195081	-0.224532885	5	3.08E+00	-0.437308858
WBGene00044564	-0.034157833	11	1.71E+00	0.031835174

WBGene00022823	0.309763354	7	6.45E-02	0.43324934
WBGene00022822	-0.397412631	5	9.48E+00	-0.876750226
WBGene00022821	0.178466139	3	2.65E-01	-0.103096318
WBGene00045394	0.129523592	4	3.22E-01	-0.42022517
WBGene00022820	-0.367214041	6	1.17E+01	-0.244920704
WBGene00022824	-0.327524895	9	2.64E+01	-0.231475481
WBGene00004729	0.450911423	43	1.66E-07	0.134471363
WBGene00303098	0	1	5.26E-01	0
WBGene00006952	-0.116913213	13	6.57E+00	0.206736146
WBGene00015715	-0.128588756	2	9.29E-01	0.256163188
WBGene00015714	0.308255828	7	6.53E-02	-0.052899467
WBGene00001620	-0.235617262	9	1.05E+01	0.439867889
WBGene00015713	-0.350683263	14	2.35E+02	-0.256790821
WBGene00015716	-0.009203483	17	2.13E+00	0.060467101
WBGene00006864	-0.005486411	22	3.02E+00	0.133414378
WBGene00018937	0.012099992	4	6.21E-01	0.229331468
WBGene00006863	0.480683243	10	5.46E-03	0.339696162
WBGene00004350	0.000907199	39	9.68E+00	0.189645887
WBGene00006928	-0.380531487	27	8.23E+04	-0.295602977
WBGene00006927	-0.217675068	27	1.17E+03	-0.127797852
WBGene00020845	-0.014819653	2	6.02E-01	-0.025352058
WBGene00000515	-0.110021285	8	2.48E+00	-0.343826535
WBGene00020844	-0.022990705	3	6.85E-01	0.022503745
WBGene00020846	-0.013296608	21	3.27E+00	-0.049878066
WBGene00020847	0.190382658	13	9.95E-02	-0.504088073
WBGene00015954	0.277134822	9	6.02E-02	0.320734873
WBGene00015955	0.030684107	2	5.06E-01	0.175730844
WBGene00015956	-0.115241309	12	5.36E+00	-0.013313896
WBGene00015957	0.290316115	13	2.55E-02	0.474911459
WBGene00015953	-0.068006914	16	5.11E+00	0.217795105
WBGene00015952	0.040360835	6	5.76E-01	0.02971094
WBGene00001759	0.047072899	5	5.29E-01	0
WBGene00020012	0.277953838	21	7.70E-03	0.10886659
WBGene00004727	0.278933209	10	4.98E-02	0.505541727
WBGene00020011	0.026292044	8	7.12E-01	0.09985922
WBGene00044725	0.248326673	5	1.43E-01	1
WBGene00020010	0.081096255	25	4.70E-01	0.029574689
WBGene00015354	0.765595313	6	2.71E-03	-0.379803304
WBGene00015355	0.078776596	8	4.40E-01	-0.234256845
WBGene00045215	0.313296116	4	1.15E-01	0.189324395
WBGene00006431	0.2713288	11	4.59E-02	0.331729775
WBGene00006643	0.30628669	7	6.64E-02	0.225845499
WBGene00015356	0.552303322	17	1.36E-04	0.520318333
WBGene00015357	0.782608763	12	5.76E-05	0.996785486
WBGene00015358	0.94246977	14	1.63E-06	0.710630606
WBGene00015293	0.350200989	20	2.17E-03	-0.045820168
WBGene00015292	0.039988967	6	5.77E-01	0.248720534

WBGene00003739	0.082573757	8	4.25E-01	0.416949447
WBGene00006454	0.670696978	7	3.25E-03	0.397715449
WBGene00006408	0.808367929	6	1.98E-03	0.151648912
WBGene00001434	0.286584693	7	7.81E-02	0.490832739
WBGene00235110	-0.111617586	2	8.71E-01	-0.172241808
WBGene00020515	-0.112666304	3	1.04E+00	0.035098499
WBGene00219411	-0.848608704	12	6.13E+04	-1
WBGene00018534	0.0055591	2	5.57E-01	-0.012452888
WBGene00018535	0	3	6.15E-01	-0.163827739
WBGene00018536	0.056860959	2	4.58E-01	0.01183064
WBGene00018537	-0.507202007	8	9.49E+01	-0.667103556
WBGene00018533	0.086742488	16	4.09E-01	0.339127711
WBGene00018538	0.193987426	7	1.68E-01	0.065623779
WBGene00018532	1	5	7.65E-04	-0.188321559
WBGene00018026	0.235007165	10	8.05E-02	0.410870445
WBGene00018027	-0.359316147	7	1.64E+01	0.041357624
WBGene00000033	-0.388719225	6	1.37E+01	-0.02311664
WBGene00001335	0.551954611	9	3.78E-03	0.349067829
WBGene00018025	-0.55055219	3	8.21E+00	-0.356779419
WBGene00018024	0.146051494	64	1.23E-02	-0.108559365
WBGene00001441	0.026228338	23	1.60E+00	0.04439021
WBGene00019359	-0.075561267	1	6.56E-01	-0.017081322
WBGene00022515	-0.111671247	4	1.24E+00	-0.026232839
WBGene00000441	0.190532329	37	1.08E-02	0.316236203
WBGene00002987	-0.001469039	7	8.48E-01	-0.121745
WBGene00018569	0.13664712	30	9.72E-02	0.112403272
WBGene00018570	0.218341721	2	2.47E-01	0.174993201
WBGene00018571	0.161290622	5	2.52E-01	0.31160035
WBGene00006321	0.085879703	8	4.12E-01	-0.111443182
WBGene00020669	0.043964595	6	5.61E-01	0.000429004
WBGene00020670	0.242580276	4	1.71E-01	0.839041513
WBGene00020667	0.00235269	4	6.55E-01	0
WBGene00020666	0	5	7.18E-01	0
WBGene00020665	0.258451259	15	2.90E-02	-0.220916908
WBGene00020567	-0.176282532	25	2.47E+02	-0.373089896
WBGene00020568	0.236963471	4	1.76E-01	0.502568296
WBGene00004184	0.126286938	11	2.56E-01	0.658796923
WBGene00303102	0.009135851	2	5.49E-01	0.643055424
WBGene00003007	0.881274277	11	3.33E-05	0.600388816
WBGene00015822	0.453721194	11	5.28E-03	0.454987216
WBGene00015823	1	1	2.66E-02	1
WBGene00015824	1	8	3.04E-06	0.840085004
WBGene00019829	0.218809103	5	1.73E-01	0.023509462
WBGene00303425	-0.088739671	5	1.28E+00	0.210465447
WBGene00019828	0.095786647	13	3.61E-01	0.065792353
WBGene00019830	-0.112082507	18	1.49E+01	-0.026934551
WBGene00019827	-0.157775054	25	1.58E+02	-0.060729573

WBGene00000049	-0.181460796	8	4.78E+00	-0.082594293
WBGene00020294	0.052963438	29	1.05E+00	0.383033719
WBGene00044566	0.020257636	4	5.93E-01	0.097423863
WBGene00000531	-0.044134075	16	3.46E+00	-0.179524543
WBGene00044724	-0.914234178	3	4.55E+01	-0.80088425
WBGene00019826	-0.165574083	8	4.13E+00	-0.323144651
WBGene00044021	0.087511738	7	4.06E-01	0.082741057
WBGene00017307	0.329304162	6	6.81E-02	-0.448192354
WBGene00017306	-1	7	1.32E+04	-0.59231792
WBGene00045395	-0.352256776	5	7.07E+00	-0.381776519
WBGene00017308	-0.044681189	3	7.59E-01	-0.063817593
WBGene00017309	-0.098494148	10	3.11E+00	-0.070366633
WBGene00022745	0.212058998	40	3.62E-03	0.251828508
WBGene00022746	-0.753063402	3	2.13E+01	-1
WBGene00006410	-0.049194715	11	2.05E+00	0.248822189
WBGene00022744	-0.326677597	7	1.25E+01	-0.042481262
WBGene00219362	-0.141465362	6	2.20E+00	0.08083689
WBGene00022747	-0.75951281	6	2.12E+02	-0.714044707
WBGene00003412	0.015744166	31	3.37E+00	-0.041611329
WBGene00006921	0.805599569	10	1.55E-04	0.319640616
WBGene00017628	-0.255859517	4	2.78E+00	0.069273673
WBGene00017629	-1	13	1.80E+08	-0.683107169
WBGene00017627	0.05273076	5	5.10E-01	0.01627293
WBGene00017630	0.060988691	4	4.72E-01	0.061108792
WBGene00017632	0.97844355	15	4.36E-07	1
WBGene00017631	0.810700952	11	7.69E-05	0.8358735
WBGene00001994	0.186403306	26	3.31E-02	-0.068508956
WBGene00303101	-0.011783171	1	5.45E-01	0.70685409
WBGene00020922	0.029408522	1	4.83E-01	0.276043555
WBGene00004285	0.04158597	11	6.98E-01	0.109145545
WBGene00018602	-0.1742227	1	8.76E-01	-0.125078058
WBGene00001957	0.047540618	2	4.74E-01	0.027182902
WBGene00005716	0.252148012	9	7.74E-02	0.342590365
WBGene00006393	0.139485585	3	3.19E-01	0.214627555
WBGene00005717	-0.042547751	3	7.51E-01	-0.012648429
WBGene00016867	-0.197351067	13	1.97E+01	-0.12065956
WBGene00016866	-0.218273891	14	3.44E+01	-0.08998398
WBGene00003179	-0.341228927	11	6.52E+01	-0.017244016
WBGene00016869	-0.242020005	2	1.43E+00	-0.031565426
WBGene00006680	-0.239254838	14	4.66E+01	0.468197951
WBGene00016865	-0.04923	8	1.42E+00	-0.00209286
WBGene00016870	-0.255386159	2	1.51E+00	0.388577741
WBGene00000510	0.62796085	12	4.13E-04	0.748583511
WBGene00003907	0.254198738	18	1.97E-02	0.038550797
WBGene00004106	0.299421301	30	8.93E-04	0.202367453
WBGene00016868	-0.325080772	12	7.77E+01	-0.357106468
WBGene00016037	-0.076542709	18	7.86E+00	0.01611372

WBGene00016039	0.062662895	2	4.48E-01	-0.363310866
WBGene00044004	0.00124187	8	8.95E-01	-0.003634245
WBGene00016038	-0.020785451	8	1.10E+00	0.155000355
WBGene00017472	-0.107852557	10	3.45E+00	0.111339987
WBGene00017471	-0.539936389	8	1.28E+02	-0.323035814
WBGene00017470	-0.061096863	4	9.35E-01	-0.129408475
WBGene00000738	-0.979682461	9	1.87E+04	-0.657899477
WBGene00017473	-0.580073684	2	5.20E+00	-0.533697861
WBGene00017474	0.055229595	3	4.74E-01	0.072418097
WBGene00219368	0	1	5.26E-01	0
WBGene00017475	-0.49365719	7	4.99E+01	-0.021671466
WBGene00020120	-0.047904511	2	6.83E-01	-0.038034578
WBGene00219369	-0.225186039	1	1.02E+00	-0.189696488
WBGene00020121	-0.146555014	3	1.23E+00	0.1356115
WBGene00020122	0.20318333	3	2.36E-01	-0.143262546
WBGene00020123	0.033728241	6	6.05E-01	-0.093838766
WBGene00020119	-0.124947517	3	1.11E+00	-0.284132736
WBGene00003084	0.228036682	19	2.80E-02	-0.203773615
WBGene00001082	0.288226331	10	4.49E-02	0.260434378
WBGene00017040	0.271359017	15	2.37E-02	0.591530481
WBGene00001052	0.654509654	11	4.89E-04	0.699862124
WBGene00017478	0.317899285	12	2.15E-02	0.613283241
WBGene00017476	0.64034275	4	1.84E-02	0.469402025
WBGene00017794	2	16	1.10E-13	2
WBGene00017177	0.79149775	17	2.22E-06	0.313740575
WBGene00000157	0.16887337	5	2.40E-01	0.276131455
WBGene00017178	0.49469526	12	2.26E-03	0.563857719
WBGene00017176	0.091286872	3	4.00E-01	0.042755826
WBGene00000207	0.273672789	9	6.23E-02	0.127197115
WBGene00003561	-0.105481363	40	5.79E+02	0.058604247
WBGene00023460	0.207364975	3	2.32E-01	0.159428481
WBGene00000959	-0.253664098	35	3.40E+04	-0.238546698
WBGene00004356	-0.333967344	6	9.14E+00	-0.128410104
WBGene00005008	-0.262369665	9	1.37E+01	0.272467822
WBGene00015561	0.419941918	10	1.06E-02	0.255332571
WBGene00003963	0.021017905	12	9.45E-01	-0.31624754
WBGene00003628	-0.047239568	22	7.46E+00	0.071482525
WBGene00015560	0.007985669	1	5.14E-01	-0.006539174
WBGene00206364	-0.047316354	11	2.00E+00	-0.10877376
WBGene00001821	-0.429978157	14	7.44E+02	-0.163363779
WBGene00015495	-0.714423752	2	8.69E+00	-0.382434251
WBGene00000136	-0.564899521	16	1.69E+04	-0.173006516
WBGene00000133	-0.172551191	12	1.11E+01	-0.230567508
WBGene00015494	0.169956619	11	1.52E-01	0.158549286
WBGene00015496	-0.097381852	14	5.93E+00	-0.251512185
WBGene00015493	-0.284993912	2	1.69E+00	-0.114270772
WBGene00015492	-0.443022497	10	1.36E+02	-0.074069056

WBGene00001455	0.034098673	5	5.75E-01	0.20946991
WBGene00020496	0.157732516	41	2.64E-02	0.20808145
WBGene00004148	0.686721149	28	3.72E-08	0.233960546
WBGene00016706	0.326960795	13	1.55E-02	-0.039694461
WBGene00016705	-0.093720238	12	4.08E+00	-0.097154784
WBGene00016704	-0.001460834	14	1.47E+00	0.001334232
WBGene00044567	0.041459767	10	6.71E-01	0.062326624
WBGene00017532	-0.134849276	6	2.10E+00	-0.585513287
WBGene00000428	0.045112982	1	4.61E-01	-0.003271959
WBGene00003635	-0.09011168	17	8.58E+00	0.386427073
WBGene00017530	-0.036624877	12	1.97E+00	0.005382118
WBGene00019345	-0.117134921	12	5.49E+00	-0.148237825
WBGene00001454	-0.437649062	3	4.83E+00	-0.494136656
WBGene00206361	-0.531182563	8	1.18E+02	-0.458711952
WBGene00019346	-0.040892458	8	1.32E+00	0.054140008
WBGene00002044	0.112036629	8	3.24E-01	0.205951654
WBGene00000176	-0.824254141	17	2.62E+06	-0.449955359
WBGene00019344	-0.034656407	5	8.99E-01	-0.025395192
WBGene00001032	0.448514343	6	2.82E-02	-0.540819607
WBGene00018878	0.894282912	19	8.94E-08	-0.065851776
WBGene00004438	1	2	3.11E-03	1
WBGene00018879	0.328149711	15	9.88E-03	0.226628041
WBGene00018880	0.007747123	11	1.04E+00	0.0752575
WBGene00018877	-0.42133932	20	9.99E+03	-0.35586978
WBGene00003056	-0.191252298	21	1.32E+02	-0.226872299
WBGene00016537	0	2	5.69E-01	0
WBGene00003377	-0.076195289	7	1.57E+00	-0.064390685
WBGene00003807	-0.268950148	11	2.77E+01	0.01755139
WBGene00018377	-0.04776388	11	2.01E+00	-0.091425989
WBGene00018376	0.49922415	14	1.02E-03	0.386788307
WBGene00018375	-0.632640806	15	2.69E+04	-0.89601246
WBGene00003245	0.297244945	9	4.91E-02	-0.070091135
WBGene00019960	-0.595230631	12	2.43E+03	-0.185931023
WBGene00019959	-0.166850511	7	3.34E+00	0.057928876
WBGene00019957	-0.120738759	35	4.08E+02	-0.281753605
WBGene00018193	-0.04157246	81	5.71E+03	-0.107458706
WBGene00000072	0.260105279	10	6.12E-02	0.183396834
WBGene00044568	0.046730247	3	4.93E-01	0.324004237
WBGene00006640	-0.067820656	25	1.76E+01	0.027055268
WBGene00020323	-0.553268521	16	1.40E+04	-0.122566412
WBGene00020322	0.368174655	8	3.09E-02	0.101925801
WBGene00020321	0.108399635	8	3.35E-01	0.245623379
WBGene00020324	0.198189938	11	1.09E-01	0.286491776
WBGene00019403	-0.132979325	15	1.21E+01	0.297594305
WBGene00002052	-0.566663563	20	1.80E+05	-0.497424886
WBGene00019404	-0.128899672	3	1.13E+00	0.002341374
WBGene00003986	-0.141778551	32	4.45E+02	0.03870007

WBGene00006475	0.081908012	13	4.37E-01	0.261817486
WBGene00019758	0.385458821	7	3.45E-02	-0.905693039
WBGene00000066	0.562945059	13	6.19E-04	-0.260562846
WBGene00019759	0.279101582	13	2.97E-02	0.077681476
WBGene00019760	0.422991251	16	1.70E-03	-0.447512976
WBGene00022501	0.297943061	85	2.94E-08	0.361122724
WBGene00022500	0.584517573	55	3.63E-12	0.633625345
WBGene00022499	0.21228334	14	6.60E-02	0.520158499
WBGene00022498	-0.367935713	8	2.65E+01	-0.36813631
WBGene00022616	-0.001062093	3	6.18E-01	-0.003450608
WBGene00045365	0.001792502	5	7.09E-01	0.077955777
WBGene00195189	-0.291290774	4	3.39E+00	0.547627401
WBGene00022613	0.901368869	11	2.63E-05	1
WBGene00022612	0.235612011	2	2.31E-01	0.175324777
WBGene00022611	0.234564476	8	1.05E-01	0.372658288
WBGene00022614	0.563259227	4	2.83E-02	-0.110991052
WBGene00022615	-0.030457159	6	9.71E-01	0.269042384
WBGene00022024	0	2	5.69E-01	-0.000734079
WBGene00016070	0.041946493	1	4.66E-01	-0.08041403
WBGene00016069	-0.115240283	5	1.52E+00	-0.05760113
WBGene00016068	0.411853	11	8.68E-03	0.190165999
WBGene00016067	-0.22038424	11	1.56E+01	-0.072017915
WBGene00006861	-0.116355652	8	2.63E+00	0.059843575
WBGene00016600	0.195224172	7	1.66E-01	0.33424558
WBGene00006862	0.452101552	14	2.02E-03	0.657115406
WBGene00000039	-0.326103785	11	5.45E+01	0.053482502
WBGene00006926	-0.339466413	31	1.29E+05	-0.854649717
WBGene00044299	-0.431746192	4	7.46E+00	-0.529724035
WBGene00016599	0.095517363	6	3.83E-01	0.157203182
WBGene00000149	0.811122896	19	4.34E-07	0.627026182
WBGene00016292	-0.124820757	14	8.84E+00	0.02721507
WBGene00206484	0	2	5.69E-01	0.019658878
WBGene00001070	-0.61663303	8	2.59E+02	-0.2360642
WBGene00016293	-0.085597813	7	1.70E+00	-0.017449626
WBGene00016294	-0.103040288	8	2.33E+00	-0.00996788
WBGene00017150	-0.208130346	2	1.26E+00	-0.038639227
WBGene00020197	-0.108249267	11	4.12E+00	-0.097683164
WBGene00044732	0.034321709	10	7.26E-01	0.26637954
WBGene00020196	-0.055510239	9	1.71E+00	-0.070620107
WBGene00020199	0.13489211	6	2.86E-01	0.396178526
WBGene00005711	0.448413602	2	1.03E-01	0.463040137
WBGene00044584	-0.125096518	3	1.11E+00	-0.062597619
WBGene00006983	0.008297346	5	6.80E-01	0.229529132
WBGene00004145	0.125010547	30	1.36E-01	-0.356435129
WBGene00019250	0.118127138	20	2.19E-01	-0.149794451
WBGene00019249	-0.096006322	11	3.56E+00	-0.500140459
WBGene00019251	-0.128778527	3	1.13E+00	-0.078478754

WBGene00003477	0.157721242	32	4.67E-02	0.291069192
WBGene00021323	0.151018847	8	2.27E-01	-0.168445876
WBGene00021326	-0.301281469	9	2.03E+01	-0.336906574
WBGene00021322	-0.686271575	8	4.90E+02	0.13510553
WBGene00021325	-0.024660879	2	6.25E-01	0.046957674
WBGene00021321	-0.109873618	5	1.46E+00	0.722250949
WBGene00021320	0.042709946	18	9.07E-01	0.0254066
WBGene00021324	0.187115038	20	5.56E-02	0.337234842
WBGene00002031	-0.053970146	5	1.02E+00	0.147125535
WBGene00021319	-0.13900163	10	4.85E+00	0.006931788
WBGene00017974	-0.130706266	27	1.20E+02	-0.086317425
WBGene00000092	0.217582561	27	1.34E-02	0.330547573
WBGene00017973	-0.103715261	14	6.51E+00	0.066902087
WBGene00006064	0.525445483	36	1.27E-07	0.687621904
WBGene00016134	-0.003966063	7	8.66E-01	0.048179748
WBGene00016135	-0.238831055	7	6.05E+00	0.101404379
WBGene00016133	0.012612523	7	7.55E-01	0.408462412
WBGene00016132	-0.511469801	8	9.87E+01	-0.092964778
WBGene00016136	-0.631082713	2	6.32E+00	-0.669960496
WBGene00016131	-0.001422959	11	1.16E+00	0.002536763
WBGene00006371	-0.103435372	10	3.28E+00	0.051845183
WBGene00003990	-0.673470277	3	1.46E+01	-0.283915275
WBGene00018037	0.037163659	20	1.10E+00	0.144368007
WBGene00018036	-0.259570346	5	3.87E+00	0.096228956
WBGene00002177	0.155043748	11	1.82E-01	0.111449006
WBGene00018038	0.271740966	12	3.87E-02	0.178705887
WBGene00018035	-0.083235051	3	9.10E-01	-0.013925087
WBGene00018034	-0.190625697	3	1.51E+00	-0.192892028
WBGene00015387	-0.133007145	17	1.79E+01	-0.008126982
WBGene00015388	0.05648339	6	5.11E-01	0.169463178
WBGene00015389	-0.060341197	13	3.04E+00	-0.020886101
WBGene00015390	0.312478726	16	1.03E-02	0.563801392
WBGene00016559	0.687367392	20	2.66E-06	1
WBGene00016558	-0.295366271	88	9.71E+12	-0.15196593
WBGene00016106	-0.5004973	7	5.28E+01	-0.436947191
WBGene00044569	-0.124132275	4	1.33E+00	0.035341589
WBGene00016105	0.633026362	4	1.92E-02	0.54477164
WBGene00016104	0.16445974	12	1.52E-01	0.381639906
WBGene00016103	0.121371217	18	2.19E-01	-0.225378769
WBGene00001006	1	21	1.32E-12	1
WBGene00016102	0.62844516	4	1.97E-02	0.41973779
WBGene00018876	0.440465509	2	1.06E-01	0.724236082
WBGene00018875	0.386721405	1	1.70E-01	0.271874705
WBGene00303081	0.587289581	6	1.01E-02	-0.438866949
WBGene00044623	0.478760263	13	1.95E-03	-0.134541293
WBGene00020735	0.305825056	29	9.03E-04	0.677219048
WBGene00020736	-0.429122723	1	1.85E+00	0.849005755

WBGene00020737	0.245562847	1	2.57E-01	0.179320471
WBGene00020738	0.210486127	2	2.55E-01	0.175930406
WBGene00016934	0.231560635	8	1.08E-01	0.233650258
WBGene00002983	-0.45163289	41	4.41E+08	-0.55375384
WBGene00016933	-0.343076391	3	3.09E+00	0.02387223
WBGene00016935	-0.270387242	17	1.91E+02	-0.022355496
WBGene00016518	0	3	6.15E-01	0.433973186
WBGene00003166	0.040561604	51	3.69E+00	0.048503957
WBGene00006826	1	7	1.34E-04	0.890270757
WBGene00017464	-0.147690112	9	4.33E+00	0.416373027
WBGene00017463	-0.249870598	18	1.81E+02	-0.354749229
WBGene00006411	0.911632503	5	1.93E-03	0.981253984
WBGene00020658	-0.38309434	6	1.31E+01	-0.238373324
WBGene00044570	-0.067463037	17	5.81E+00	0.070750276
WBGene00020673	0.262212435	9	6.99E-02	0.353198545
WBGene00005718	-0.060239441	4	9.31E-01	-0.1019094
WBGene00020672	-0.233172335	19	1.78E+02	-0.27656897
WBGene00020674	-0.417916967	8	4.18E+01	-0.138070553
WBGene000284867	-0.141301613	1	7.96E-01	0.184052456
WBGene00001182	-0.251057849	30	6.90E+03	0.077174961
WBGene00020919	0.14761971	19	1.29E-01	0.750467743
WBGene00020920	0.096460971	11	3.64E-01	0.372695414
WBGene00020918	-0.022603867	6	9.16E-01	-0.009146907
WBGene00020921	-0.020485548	12	1.60E+00	-0.343022554
WBGene00000295	1	16	4.92E-11	1
WBGene00017108	0.688078545	10	5.62E-04	0.587100502
WBGene00016568	0.267110309	9	6.65E-02	-0.026298451
WBGene00004349	0.654059023	34	4.30E-09	0.732503068
WBGene00016570	0.444471522	13	3.11E-03	0.968503589
WBGene00016937	-0.156172402	9	4.71E+00	0.337477602
WBGene00016938	-0.001371524	4	6.69E-01	0.001502069
WBGene00006368	-0.048046365	7	1.25E+00	0.63625475
WBGene00004788	0.514748358	6	1.73E-02	0.579680848
WBGene00018516	0.10870073	11	3.15E-01	0.22060801
WBGene00045269	0.042003606	2	4.85E-01	0.026969456
WBGene00018515	-0.725651258	15	1.13E+05	-0.88766675
WBGene00018514	-0.220087099	24	5.46E+02	-0.067357057
WBGene00018517	0.332904049	3	1.28E-01	0.505292912
WBGene00017428	0.514065265	4	3.73E-02	0.399898158
WBGene00001824	0.311854071	12	2.32E-02	0.090306184
WBGene00017427	-0.088843955	4	1.09E+00	0.153978295
WBGene00017429	-0.195948362	9	7.03E+00	-0.079675937
WBGene00021060	-0.35839103	7	1.63E+01	0.073170043
WBGene00004245	0.490786333	16	5.61E-04	0.341012211
WBGene00021059	-0.063240096	6	1.24E+00	0.008668436
WBGene00001984	-0.591093656	6	6.11E+01	0.236825358
WBGene00006424	0.347842753	29	2.79E-04	0.43548031

WBGene00018641	-0.03874929	16	3.17E+00	0.008472156
WBGene00001450	0.528060046	8	7.14E-03	0.593699025
WBGene00018640	-0.196764884	11	1.18E+01	-0.097847406
WBGene00018639	-0.270178802	11	2.81E+01	0.209979815
WBGene00019160	-0.006737297	2	5.84E-01	0.147299253
WBGene00021267	-0.428422145	5	1.16E+01	-0.135763156
WBGene00021268	-0.529520414	3	7.44E+00	-0.199859485
WBGene00001175	-0.155126268	9	4.66E+00	-0.215087668
WBGene00044571	-0.047555152	4	8.67E-01	0.179463528
WBGene00016716	0.020492653	19	1.44E+00	0.041693399
WBGene00003254	0.322141551	11	2.51E-02	0.395729485
WBGene00019938	0.627576892	13	2.56E-04	0.469713876
WBGene00019937	-0.424775196	3	4.54E+00	0.397925461
WBGene00019935	-0.002666778	26	3.91E+00	-0.012005928
WBGene00002190	0.336391702	17	5.57E-03	0.07757315
WBGene00002224	-0.225339517	26	1.08E+03	-0.161214835
WBGene00017718	-0.874518674	2	1.60E+01	-0.126391923
WBGene00002125	0.067288206	9	4.97E-01	-0.376369052
WBGene00271606	-0.65581861	4	2.62E+01	-0.027719523
WBGene00017717	-0.014199927	6	8.61E-01	-0.028066502
WBGene00017716	-0.276005497	6	5.96E+00	-0.557856171
WBGene00015622	-0.370417297	12	1.39E+02	-0.60784595
WBGene00015625	-0.589720231	7	1.11E+02	-0.474786961
WBGene00015623	-0.444466939	4	8.01E+00	0.111972873
WBGene00015624	-0.249699408	7	6.62E+00	0.083553315
WBGene00002146	-0.220418958	12	2.05E+01	0.041738805
WBGene00002023	0.068274136	6	4.68E-01	0.067640307
WBGene00003911	0.014209952	13	1.10E+00	0.384233509
WBGene00016661	-0.331185923	15	2.57E+02	0.07041475
WBGene00001602	-0.531912442	16	9.88E+03	-0.570852901
WBGene00004219	-0.585106456	21	4.72E+05	-0.517738383
WBGene00001587	-0.026913534	18	3.20E+00	0.183907801
WBGene00016660	-0.26053974	4	2.86E+00	0.194509396
WBGene00016659	-0.015854771	3	6.62E-01	-0.02386999
WBGene00016658	-0.607572414	2	5.78E+00	-0.120000209
WBGene00016662	0.126958483	3	3.38E-01	0.118611834
WBGene00002007	0.503148058	20	1.04E-04	0.194231045
WBGene00015801	0.168552508	9	1.79E-01	0.08711047
WBGene00015800	0.155187046	6	2.46E-01	0.334658851
WBGene00015805	0.015542616	1	5.03E-01	0.07485019
WBGene00015802	-0.015305141	10	1.25E+00	-0.07814685
WBGene00004193	-0.002048682	5	7.27E-01	-0.046857689
WBGene00015799	-0.02876584	9	1.31E+00	0.188874388
WBGene00015798	-0.026410435	6	9.43E-01	0.558769192
WBGene00003778	-0.191503227	6	3.19E+00	-0.258178023
WBGene00015803	-0.610345362	2	5.84E+00	-0.540352172
WBGene00022202	0.607883019	20	1.29E-05	0.417343385

WBGene00016423	0.36790773	18	2.52E-03	-0.012526137
WBGene00003846	-0.95017288	13	5.65E+05	-1
WBGene00020786	-0.238470308	13	3.45E+01	-0.304971811
WBGene00020785	0	2	5.69E-01	-0.092481434
WBGene00077592	-0.082172012	1	6.69E-01	-0.076454406
WBGene00194983	-0.175282005	2	1.11E+00	-0.175317593
WBGene00020484	-0.58193582	3	9.52E+00	0.222920269
WBGene00020487	-0.24477551	3	1.95E+00	0.169339792
WBGene00020483	-0.135664904	6	2.11E+00	0.320470494
WBGene00206360	0	2	5.69E-01	-0.007985222
WBGene00195168	-0.109881708	3	1.03E+00	-0.029721516
WBGene00020485	-0.000744051	6	7.80E-01	-0.02163213
WBGene00000905	-0.369224157	9	4.02E+01	0.021927537
WBGene00000245	0.09071279	9	3.93E-01	0.070808994
WBGene00077690	0.509610244	5	2.62E-02	0.481216439
WBGene00020486	0.229513728	5	1.62E-01	0.558608465
WBGene00015782	0.317298088	1	2.08E-01	0.473547941
WBGene00015779	0.431187467	13	3.73E-03	0.497380652
WBGene00001803	-0.260795127	13	4.67E+01	-0.255731123
WBGene00015780	-0.611740798	4	2.04E+01	-0.476966018
WBGene00002024	-0.395653812	11	1.24E+02	0.175931173
WBGene00015781	0.079609901	4	4.25E-01	-0.048043224
WBGene00015778	-0.193150048	14	2.39E+01	-0.44488684
WBGene00021051	0.589972672	19	2.89E-05	0.503288969
WBGene00021049	0.172829857	18	8.61E-02	0.453622826
WBGene00021048	-0.482724292	7	4.56E+01	-0.328834959
WBGene00000739	0.507434108	8	8.62E-03	0.269184972
WBGene00002976	0.408909278	20	6.76E-04	0.4919408
WBGene00003394	0.701947171	16	1.79E-05	0.395417307
WBGene00020330	0.372947367	18	2.30E-03	0.454056008
WBGene00020420	-0.170819323	13	1.37E+01	-0.062345564
WBGene00020421	-0.136201594	20	3.44E+01	-0.007818817
WBGene00000740	-0.159835051	7	3.15E+00	-0.348553358
WBGene00000741	-0.253106265	8	9.23E+00	-0.212127442
WBGene00000742	-0.308107522	7	1.07E+01	-0.78918846
WBGene00000743	0.073567893	6	4.50E-01	0.071659342
WBGene00000744	0.113149235	11	2.99E-01	0.095881881
WBGene00015381	-0.445037552	14	9.26E+02	-0.518502599
WBGene00015378	-0.420909013	15	1.03E+03	-0.278067027
WBGene00015379	-0.080445048	3	8.98E-01	-0.082445466
WBGene00015377	-0.206222574	4	2.11E+00	0.405756971
WBGene00015376	0.127453032	9	2.71E-01	0.278532648
WBGene00015380	-0.167035024	2	1.08E+00	0.183863035
WBGene00015382	-0.044408952	5	9.58E-01	0.089439239
WBGene00015375	-0.032895238	3	7.18E-01	0.054330649
WBGene00015374	-0.322285364	1	1.35E+00	0.122721518
WBGene00015373	1	14	1.80E-09	2

WBGene00015372	0.10817467	6	3.49E-01	0.059103853
WBGene00003053	0.556786135	6	1.27E-02	0.820825917
WBGene00020130	0.216265024	18	3.92E-02	0.387691087
WBGene00020691	-0.128040805	14	9.26E+00	-0.106332964
WBGene00044572	0.040977123	4	5.28E-01	0.260583462
WBGene00001622	0.066272442	18	5.92E-01	0.159081374
WBGene00003495	1	6	1.63E-04	0.763472392
WBGene00020690	0.446805288	3	7.50E-02	0.481835934
WBGene00020692	0.01629297	4	6.06E-01	0.50055832
WBGene00206386	-0.005224159	1	5.34E-01	-0.006822815
WBGene00019617	-0.280900179	47	4.32E+06	-0.214472501
WBGene00019618	0.094494619	8	3.81E-01	0.138856232
WBGene00045265	-0.078306993	2	7.67E-01	0.038238764
WBGene00206388	0	1	5.26E-01	-0.000686012
WBGene00019622	-0.059387594	1	6.26E-01	0.260310744
WBGene00019619	-0.407735239	13	3.47E+02	-0.106045973
WBGene00019620	-0.480436911	8	7.42E+01	-0.171248146
WBGene00001715	-0.028766946	1	5.73E-01	-0.005413843
WBGene00019621	-0.102146551	2	8.40E-01	-0.004060382
WBGene00003551	-0.526681971	13	1.75E+03	-0.149308715
WBGene00003877	-0.64924535	26	4.78E+07	-0.900589082
WBGene00019383	-0.223253104	4	2.32E+00	-0.195780173
WBGene00015784	-0.162410148	7	3.22E+00	-0.13721887
WBGene00015785	-0.330286049	1	1.38E+00	0.110053769
WBGene00044573	0.000862492	6	7.71E-01	-0.080182934
WBGene00015786	-0.591363259	15	1.42E+04	-0.464396981
WBGene00015788	-0.710819371	13	2.16E+04	-0.611938711
WBGene00015783	-0.210145246	15	3.98E+01	-0.074236524
WBGene00001517	0.248775007	15	3.36E-02	0.28983078
WBGene00015787	0.043749165	9	6.30E-01	0.08217529
WBGene00000393	-0.130092274	18	2.07E+01	0.216050557
WBGene00001619	0.49770177	9	6.53E-03	0.149883042
WBGene00044605	0.330880999	7	5.41E-02	-0.095095963
WBGene00017688	-0.041048712	6	1.05E+00	-0.305688779
WBGene00017687	-0.665224609	6	1.06E+02	-0.274587085
WBGene00017690	-0.197487924	22	1.94E+02	-0.149196102
WBGene00017691	-0.443770886	11	2.20E+02	-0.614397304
WBGene00020505	-0.093595589	5	1.32E+00	-0.196657513
WBGene00020504	0.323754157	33	2.35E-04	0.332385592
WBGene00043981	0.083860625	7	4.19E-01	0.306723148
WBGene00020506	0.337164705	22	1.80E-03	0.169463175
WBGene00020884	0.797908466	27	3.47E-09	0.383202824
WBGene00020886	0.861028745	5	2.68E-03	0.550779356
WBGene00020887	0.099410917	3	3.85E-01	0.709215174
WBGene00044574	-0.03803521	6	1.03E+00	0.182082275
WBGene00000786	-0.807847894	13	8.11E+04	-0.704512333
WBGene00044297	-0.147644452	9	4.32E+00	0.005509482

WBGene00016088	-0.037883081	11	1.79E+00	0.110220279
WBGene00002233	0.029333111	14	9.42E-01	0.000655385
WBGene00016090	-0.172274544	10	6.98E+00	-0.121484709
WBGene00016089	-0.085229498	7	1.70E+00	-0.089450607
WBGene00003710	-0.077219547	15	5.13E+00	0.176186112
WBGene00016976	-0.287145112	21	9.67E+02	-0.083003977
WBGene00016975	-0.136644918	13	8.60E+00	0.048305029
WBGene00003727	-0.223988068	28	1.82E+03	-0.115173709
WBGene00000745	-0.987479195	6	1.14E+03	-0.426016004
WBGene00018174	-0.15264938	14	1.32E+01	-0.208176751
WBGene00044575	-0.29715102	6	6.96E+00	-0.244874817
WBGene00018175	-0.195631795	20	1.12E+02	-0.007878266
WBGene00018173	-0.382686398	7	1.99E+01	-0.198222496
WBGene00018176	-0.52112122	9	1.86E+02	-0.228988661
WBGene00018172	-0.156702244	9	4.74E+00	-0.106777134
WBGene00000042	0.215644299	13	7.05E-02	0.261931715
WBGene00000043	0.396001487	9	1.82E-02	0.851753377
WBGene00003530	-0.779186943	18	2.62E+06	-1
WBGene00004877	-0.222878098	9	9.22E+00	-0.211205556
WBGene00004876	0.030629116	11	7.95E-01	-0.051910918
WBGene00019656	-0.076840767	10	2.45E+00	0.288616351
WBGene00019657	-0.070996856	13	3.51E+00	0.187164537
WBGene00019843	-0.216074266	9	8.61E+00	0.009246931
WBGene00003163	0.77198251	8	7.62E-04	-0.219251456
WBGene00019844	-0.232962995	53	2.91E+06	-0.217359267
WBGene00002149	-0.1342748	15	1.24E+01	-0.152285459
WBGene00019226	0.024035925	2	5.19E-01	-0.011375164
WBGene00019225	0.299454661	8	5.81E-02	0.110275438
WBGene00019227	0.065520105	7	4.87E-01	0.440728153
WBGene00000216	0.160914703	12	1.59E-01	0.029616627
WBGene00019749	0.007418013	4	6.37E-01	0.007479946
WBGene00019748	0.282623718	31	1.22E-03	0.215668007
WBGene00000991	0.151679214	5	2.68E-01	0.383303885
WBGene00001572	0.655850697	8	2.21E-03	0.06322569
WBGene00018257	0.411928905	5	4.95E-02	-0.270690042
WBGene00018258	0.041205628	16	8.60E-01	-0.190350291
WBGene00018259	0.408604408	4	6.74E-02	0.85858201
WBGene00001617	-0.048372904	18	4.72E+00	0.147545152
WBGene00000210	-0.026884473	2	6.30E-01	0.154647957
WBGene00016894	-0.407378829	7	2.44E+01	-0.941437656
WBGene00016893	-0.181073315	4	1.83E+00	-0.117275563
WBGene00004370	-0.165023981	17	3.11E+01	0.231632382
WBGene00016896	-0.024241887	5	8.40E-01	0.003698243
WBGene00003856	-0.09769886	8	2.22E+00	0.231234951
WBGene00016895	1	2	2.59E-03	2
WBGene00018276	0.081144099	7	4.28E-01	0.030103941
WBGene00018277	0.022598097	4	5.85E-01	0.003710381

WBGene00018278	-0.288669787	5	4.68E+00	-0.123592048
WBGene00000746	-0.217427653	12	1.97E+01	-0.331929931
WBGene00018279	-0.094438945	6	1.56E+00	-0.414897036
WBGene00018280	-0.052892726	4	8.93E-01	0.013682916
WBGene00006746	0.455726804	22	1.38E-04	-0.059335685
WBGene00017446	0.009279041	2	5.49E-01	0.033699778
WBGene00003987	0.001111165	5	7.13E-01	0.014830659
WBGene00017445	0	1	5.26E-01	0.001648805
WBGene00003732	0.190588074	19	5.69E-02	0.283075057
WBGene00017449	-0.159541438	9	4.87E+00	0.058614314
WBGene00017447	-0.072673264	7	1.53E+00	0.008740551
WBGene00017448	-0.022423368	14	2.00E+00	0.200846544
WBGene00015866	0.218091215	9	1.09E-01	0.077749368
WBGene00015865	-0.258652046	12	3.33E+01	-0.205286226
WBGene00002123	0.602662648	29	2.27E-07	0.619649522
WBGene00017156	0.043467929	9	6.32E-01	0.081123679
WBGene00219372	-0.017120887	4	7.31E-01	0.033886251
WBGene00219373	-0.308544168	5	5.32E+00	-0.289795775
WBGene00017154	-0.807405305	13	8.06E+04	-2
WBGene00006642	0.028244872	4	5.67E-01	-0.026560338
WBGene00303051	0.025619948	1	4.88E-01	-0.022271935
WBGene00017157	0.214121458	15	5.74E-02	0.253556876
WBGene00000283	-0.259834609	16	1.17E+02	-0.002807688
WBGene00020126	0.335365499	2	1.58E-01	-0.590587966
WBGene00020125	0.332054972	15	9.31E-03	0.253588679
WBGene00006712	0.094804946	17	3.56E-01	-0.017061663
WBGene00015169	-0.210695998	9	8.16E+00	-0.274369648
WBGene00015167	-0.263585345	7	7.43E+00	0.035187273
WBGene00015168	0.332989215	13	1.42E-02	-0.079491796
WBGene00043982	-0.010808725	10	1.19E+00	0.361600955
WBGene00016467	-0.038928344	5	9.24E-01	-0.069526627
WBGene00021150	-0.006669115	2	5.83E-01	-0.049920198
WBGene00016468	-0.152784844	11	6.99E+00	-0.076691408
WBGene00016469	0.469248273	14	1.58E-03	-0.011647163
WBGene00016466	0.023251434	2	5.21E-01	0.022575893
WBGene00016465	-0.225368345	14	3.81E+01	-0.442843679
WBGene00016464	-0.46523316	9	1.06E+02	-0.541562242
WBGene00001841	0	1	5.26E-01	0.006634177
WBGene00002163	-0.115424818	38	5.88E+02	-0.028513638
WBGene00016912	0.152682254	4	2.82E-01	0.082744455
WBGene00000116	-0.129058924	8	2.96E+00	0.045592967
WBGene00016913	0.2606275	30	2.73E-03	-0.101658745
WBGene00016914	-0.006600192	7	8.85E-01	-0.127183225
WBGene00004004	-0.027944207	26	7.40E+00	-0.072019788
WBGene00000238	0.356353299	14	8.14E-03	0.096423442
WBGene00044577	0.583803984	3	3.93E-02	0.94530224
WBGene00016940	-0.445259935	5	1.29E+01	-0.160021941

WBGene00206379	-0.094577516	3	9.59E-01	-0.385307508
WBGene00001025	0.290006068	8	6.34E-02	0.420206323
WBGene00016939	-0.134761413	21	4.08E+01	-0.094216649
WBGene00016941	0	3	6.15E-01	-0.010651898
WBGene00022829	-0.003881029	8	9.38E-01	0.03968852
WBGene00044283	0.342117607	6	6.20E-02	-0.112022515
WBGene00044068	0.294664162	27	1.79E-03	0.022933086
WBGene00018519	0.530773271	18	1.32E-04	0.272744181
WBGene00018522	0.231214952	18	2.99E-02	0.165161613
WBGene00018520	-0.062298731	42	1.48E+02	0.038008166
WBGene00018521	0.145530042	5	2.79E-01	-0.108616372
WBGene00018523	0.524106588	4	3.53E-02	0.409873226
WBGene00018518	-0.073680153	13	3.64E+00	-0.123252779
WBGene00001696	-0.035770435	3	7.27E-01	0.333769204
WBGene00303398	0.122784433	8	2.94E-01	-0.194040864
WBGene00006750	0.720491486	22	4.44E-07	0.705740861
WBGene00019351	-0.136246835	6	2.12E+00	-0.059897086
WBGene00019352	0.000895345	5	7.14E-01	0.089997265
WBGene00006351	0.512253207	14	8.45E-04	0.764014842
WBGene00001912	0.110041802	1	3.82E-01	0.184784758
WBGene00001914	0.034024742	5	5.75E-01	0.099729713
WBGene00004988	0.150952928	1	3.39E-01	0.002957755
WBGene00004987	0.147614869	2	3.24E-01	-0.276554
WBGene00004991	-0.219998847	2	1.32E+00	0.130500649
WBGene00004989	-0.144942091	1	8.04E-01	0.019180612
WBGene00004990	-0.523501355	4	1.25E+01	-0.07127855
WBGene00044442	-0.088537124	1	6.82E-01	0.751010173
WBGene00004912	0.535772981	6	1.48E-02	0.39261385
WBGene00020339	0.44639639	3	7.51E-02	0.22562932
WBGene00020335	-0.039903415	5	9.30E-01	0.14957238
WBGene00020334	0.361463585	22	1.06E-03	0.600851553
WBGene00015565	0.978141904	6	5.65E-04	0.320453505
WBGene00015564	-0.191973263	4	1.95E+00	0.03658009
WBGene00016985	-0.103199089	3	9.99E-01	-0.115582496
WBGene00016984	0.175706394	25	4.69E-02	0.287076345
WBGene00015667	-0.246088401	6	4.78E+00	0.021043071
WBGene00015666	-0.324744311	9	2.57E+01	-0.140397997
WBGene00206485	-0.002994026	2	5.75E-01	-0.017825396
WBGene00050957	-0.017119414	2	6.07E-01	-0.0798083
WBGene00015665	-0.055436341	2	7.03E-01	-0.011634658
WBGene00015664	-0.146062301	4	1.51E+00	-0.243673233
WBGene00015663	-0.064871914	5	1.09E+00	-0.030557748
WBGene00015668	-0.018642092	4	7.37E-01	-0.061168046
WBGene00015662	-0.225312865	10	1.25E+01	0.044668453
WBGene00045456	0.022617233	3	5.53E-01	-0.251146148
WBGene00003380	-0.000709677	3	6.17E-01	0.012241444
WBGene00000523	-0.023782744	4	7.59E-01	0.054961491

WBGene00000526	-0.374169564	5	8.15E+00	-0.124303629
WBGene00015294	-0.184453106	6	3.03E+00	0.06588487
WBGene00015295	0.208723223	9	1.20E-01	0.545217477
WBGene00004949	-0.024284682	13	1.86E+00	-0.000348565
WBGene00000591	0.175560173	23	5.52E-02	0.390914719
WBGene00003185	0.214934317	7	1.41E-01	0.328179622
WBGene00018608	0.192530141	11	1.17E-01	0.436737477
WBGene00001637	0.071930403	8	4.68E-01	-0.072889835
WBGene00018603	-0.135759755	2	9.55E-01	0.255139571
WBGene00018605	-0.531996135	5	2.27E+01	0.060698913
WBGene00018604	0.105918196	32	2.28E-01	0.060723642
WBGene00018606	-0.003996653	1	5.33E-01	-0.016993159
WBGene00000061	0.355832614	6	5.60E-02	0.711244425
WBGene00018607	-0.060535265	42	1.38E+02	0.421324739
WBGene00018485	0.906832819	8	2.21E-04	0.178661697
WBGene00000438	-0.203732363	8	5.87E+00	-0.018897756
WBGene00001069	0.065675785	3	4.51E-01	-0.123020555
WBGene00018486	-0.240566077	8	8.23E+00	-0.489415502
WBGene00000747	-0.48386244	7	4.60E+01	-0.429551948
WBGene00018484	-0.348863477	12	1.05E+02	-0.391396318
WBGene00018487	-0.140339662	12	7.38E+00	-0.299508991
WBGene00019803	-0.027944296	7	1.06E+00	-0.243402562
WBGene00017243	0.044735095	7	5.79E-01	0.304053606
WBGene00006063	-0.052174182	3	7.86E-01	0.04968503
WBGene00007059	0.144832906	6	2.66E-01	0.226664627
WBGene00017244	-0.097858018	7	1.88E+00	-0.296035724
WBGene00006827	0.337416577	10	2.62E-02	0.200506643
WBGene00017241	0.169324455	23	6.35E-02	-0.010426892
WBGene00303053	-0.195475784	1	9.32E-01	-1
WBGene00000083	-0.35823915	33	4.98E+05	-0.415465224
WBGene00016657	0.076598992	7	4.44E-01	0.31724786
WBGene00006671	0.367897383	23	7.19E-04	0.337026932
WBGene00017813	-0.313915531	3	2.69E+00	-0.253799205
WBGene00017814	0.252295743	25	7.27E-03	0.291952412
WBGene00017862	0.070106303	1	4.29E-01	-0.07586862
WBGene00017863	0.035085458	3	5.21E-01	0.520478391
WBGene00206475	0.112975152	3	3.61E-01	0.378825933
WBGene00017864	0.298506852	73	2.71E-07	0.397816774
WBGene00000992	0.185590835	7	1.80E-01	0.205564819
WBGene00270320	0.013540229	5	6.57E-01	-0.187977239
WBGene00017865	0.592274879	8	3.96E-03	0.393839289
WBGene00017861	0.136544651	9	2.48E-01	0.493240904
WBGene00017866	0.656272243	12	2.88E-04	0.889082477
WBGene00006757	-0.040744293	9	1.47E+00	0.095946537
WBGene00016898	0.105025942	14	3.14E-01	-0.069969597
WBGene00002242	0.324283293	38	8.01E-05	0.340018049
WBGene00019583	-0.027222479	2	6.31E-01	0.051271132

WBGene00044698	0.445372613	14	2.23E-03	0.485805132
WBGene00004999	0.040024349	1	4.68E-01	0.107554237
WBGene00006925	-0.400160158	29	3.28E+05	-0.407843743
WBGene00019584	-0.253162012	7	6.82E+00	-0.207539827
WBGene00019582	-0.021742537	6	9.11E-01	0.105446922
WBGene00004335	-0.36417796	13	1.91E+02	-0.100662783
WBGene00016736	0.010547257	2	5.46E-01	-0.043308303
WBGene00000950	0.2995781	22	4.06E-03	0.422961503
WBGene00003171	0.982304777	10	2.24E-05	0.445778765
WBGene00022666	0.088455231	6	4.04E-01	0.176795176
WBGene00022665	0.114681171	3	3.58E-01	0.11408641
WBGene00022667	0.620912061	20	9.98E-06	1
WBGene00022668	0.554773728	11	1.60E-03	0.343938687
WBGene00000075	0.757714785	15	1.31E-05	1
WBGene00019846	-0.00684245	2	5.84E-01	0.095992665
WBGene00019845	-0.221637873	7	5.25E+00	-0.037803343
WBGene00019847	-0.003066163	8	9.31E-01	0.538265314
WBGene00004758	-0.037961433	8	1.28E+00	0.123243416
WBGene00001169	1	11	4.99E-08	0.642809423
WBGene00006310	-0.095776957	14	5.80E+00	0.008579921
WBGene00016916	-0.769954681	3	2.31E+01	-0.264652677
WBGene00016915	-0.299239631	9	1.99E+01	-0.358030406
WBGene00045210	-0.006848262	4	6.90E-01	0.267500445
WBGene00000367	0.126398316	64	3.93E-02	0.151669807
WBGene00016535	-0.194841723	2	1.20E+00	-0.075146914
WBGene00016531	-0.16147697	6	2.56E+00	-0.261496609
WBGene00016530	0	3	6.15E-01	0.009428934
WBGene00016532	-0.112495847	5	1.49E+00	0.073414838
WBGene00016533	2	9	3.57E-08	2
WBGene00043983	0.77317132	6	2.57E-03	0.693716413
WBGene00016529	1	4	3.82E-04	0.814230679
WBGene00016534	-0.389643174	15	6.34E+02	0.330244584
WBGene00006981	-0.587082351	5	3.25E+01	-0.246883288
WBGene00006980	0.007608309	5	6.83E-01	-0.368053839
WBGene00006588	-0.082998002	30	5.44E+01	0.106590358
WBGene00015776	0.025935027	3	5.44E-01	-0.000913154
WBGene00015777	-0.044359997	6	1.08E+00	0.46193876
WBGene00004774	0.370823825	11	1.41E-02	-0.008235472
WBGene00018466	0.066479667	8	4.92E-01	0.006679256
WBGene00001945	0	2	5.69E-01	0
WBGene00018465	-0.530063758	14	3.19E+03	-0.242703625
WBGene00018467	-0.06135263	16	4.58E+00	-0.086684064
WBGene00018463	0.60752227	1	8.92E-02	0.961797341
WBGene00018462	0.210170277	9	1.18E-01	0.340282627
WBGene00016407	0.295392323	29	1.21E-03	0.120687224
WBGene00303044	0.260516567	1	2.46E-01	0.082170801
WBGene00016406	-0.081759309	5	1.22E+00	-0.045493391

WBGene00006962	-0.144969585	15	1.46E+01	-0.030639715
WBGene00015950	-0.21056424	4	2.16E+00	0.338209438
WBGene00001000	0.59431786	23	4.35E-06	0.31521242
WBGene00015949	-0.047490954	10	1.78E+00	0.093675186
WBGene00015948	-0.015142321	2	6.03E-01	0.015774514
WBGene00015947	0.017080646	4	6.04E-01	0.021041756
WBGene00016714	-0.356629452	5	7.27E+00	-0.21195502
WBGene00019492	-0.115297713	9	3.12E+00	0.046740133
WBGene00000929	-0.317090465	6	8.07E+00	0.262734354
WBGene00006890	0.207047006	8	1.36E-01	0.377242163
WBGene00019493	-0.040627196	20	5.15E+00	0.160215737
WBGene00019491	0.164024314	10	1.75E-01	0.682573734
WBGene00194670	0.108695757	3	3.68E-01	0.143713783
WBGene00019490	0.548260505	22	1.86E-05	0.875886988
WBGene00001953	-0.031256958	10	1.49E+00	0.120852298
WBGene00219375	-0.311325914	9	2.25E+01	-0.285595975
WBGene00015323	-0.038170238	12	2.01E+00	-0.126416123
WBGene00015324	0.0278146	5	5.99E-01	0.060863112
WBGene00015325	0.248209857	2	2.21E-01	0.250354284
WBGene00015322	-0.032109216	2	6.43E-01	-0.000815347
WBGene00015321	-0.243037884	5	3.48E+00	-0.14530268
WBGene00015320	0.760880898	6	2.81E-03	1
WBGene00017714	2	9	5.39E-08	2
WBGene00001854	2	6	3.48E-06	0.862299048
WBGene00017715	1	8	3.60E-05	1
WBGene00015922	0.508438789	11	2.76E-03	0.781414829
WBGene00015921	0.077652372	20	4.90E-01	0.259329842
WBGene00015924	-0.647204013	5	4.80E+01	0.471520028
WBGene00015925	0.451735676	6	2.76E-02	0.346163197
WBGene00015926	0.212197269	42	2.88E-03	0.358057704
WBGene00000391	0.154879874	7	2.32E-01	0.313598303
WBGene00016738	-0.240669281	4	2.56E+00	-0.028246897
WBGene00077674	-0.247270013	2	1.46E+00	-0.00217468
WBGene00019292	-0.322411051	1	1.35E+00	0.367136701
WBGene00019293	-0.00412785	3	6.27E-01	0.346788949
WBGene00019294	-0.188640062	10	8.35E+00	-0.145856449
WBGene00019780	0.230145543	11	7.47E-02	0.127192744
WBGene00019779	-0.48404737	14	1.63E+03	-0.258308342
WBGene00002234	-0.398606269	6	1.47E+01	-0.05314665
WBGene00019781	-0.047354505	10	1.78E+00	0.258053479
WBGene00019782	-0.321203362	11	5.14E+01	0.269387076
WBGene00017421	-0.089748294	24	2.57E+01	-0.130940263
WBGene00002239	-0.164466345	19	4.83E+01	0.113945452
WBGene00001425	0.236311279	6	1.35E-01	0.030716883
WBGene00017420	0.11140689	3	3.64E-01	-0.038554177
WBGene00017419	0.351847604	22	1.31E-03	0.305103501
WBGene00019987	0.321748138	8	4.74E-02	-0.113202298

WBGene00000427	-0.181770876	3	1.45E+00	0.139435473
WBGene00002127	-0.233268306	11	1.81E+01	-0.374914862
WBGene00019988	0.035442759	3	5.20E-01	0.027988063
WBGene00005237	-0.071435674	2	7.47E-01	-0.144146042
WBGene00004141	-0.177033968	7	3.63E+00	0.004713354
WBGene00000032	-0.307294582	4	3.71E+00	-0.3998399
WBGene00019986	-0.268734032	3	2.18E+00	-0.191839636
WBGene00019989	-0.149876637	10	5.46E+00	-0.020552774
WBGene00018883	-0.107315139	2	8.57E-01	-0.003326706
WBGene00018884	-0.543723846	19	6.48E+04	-0.626914484
WBGene00018882	-0.021445436	1	5.60E-01	-0.052829716
WBGene00018881	0.440677759	2	1.06E-01	0.29016789
WBGene00018885	-0.045921229	6	1.09E+00	-0.269199334
WBGene00018886	0.596954009	9	2.41E-03	0.693097547
WBGene00018226	0.155069113	5	2.62E-01	0.365499649
WBGene00018227	-0.083691504	9	2.27E+00	0.128986537
WBGene00018281	3	16	1.22E-18	3
WBGene00018282	3	10	7.07E-13	2
WBGene00006942	0.584815278	15	1.89E-04	0.719827855
WBGene00018283	1	13	4.31E-08	1
WBGene00017259	-0.267632066	5	4.08E+00	-0.11126566
WBGene00017258	-0.286604918	5	4.62E+00	0.515945668
WBGene00000422	0.329614449	7	5.47E-02	0.302374087
WBGene00004998	2	2	2.92E-04	1
WBGene00006472	1	16	5.82E-10	0.895308164
WBGene00006649	0.018337772	4	5.99E-01	0.11342746
WBGene00017257	-0.039857367	4	8.30E-01	-0.008087651
WBGene00002195	-0.24410941	17	1.21E+02	-0.285944258
WBGene00017513	-0.136286347	21	4.21E+01	0.070565267
WBGene00001068	-0.126030095	11	5.09E+00	-0.216150928
WBGene00017514	-0.102386642	5	1.40E+00	-0.091273555
WBGene00017515	0.026787385	5	6.03E-01	-0.046789028
WBGene00003174	-0.044281164	13	2.44E+00	-0.141809139
WBGene00003613	-0.02347227	12	1.67E+00	-0.526080371
WBGene00020137	-0.030028822	8	1.19E+00	0.027632195
WBGene00001703	-0.035259131	7	1.12E+00	0.434613537
WBGene00001693	-0.131644667	3	1.14E+00	0.114844741
WBGene00019148	-0.610074963	26	1.78E+07	-0.190012612
WBGene00019149	0	6	7.76E-01	-0.019709481
WBGene00219371	-0.057965687	3	8.08E-01	-0.294063783
WBGene00001448	-0.009812797	7	9.09E-01	0.528413137
WBGene00023477	-0.068545163	2	7.39E-01	-0.015573021
WBGene00044337	-0.740704575	2	9.60E+00	-0.312508201
WBGene00044338	-0.106677906	2	8.55E-01	-0.358815267
WBGene00044339	-0.103064681	3	9.99E-01	-0.249932754
WBGene00044340	-0.002306445	2	5.74E-01	0.254756238
WBGene00044357	0.334463421	2	1.59E-01	0.19212401

WBGene00015392	0.101278092	2	3.86E-01	0.116726689
WBGene00015391	0.601066856	19	2.34E-05	0.411723378
WBGene00017048	-0.349101522	5	6.93E+00	-0.032119091
WBGene00044071	0.228827368	18	3.13E-02	0.114373468
WBGene00017046	0.259964435	21	1.12E-02	0.607644732
WBGene00017571	0.660680558	22	1.62E-06	0.260604988
WBGene00044780	0.023659629	3	5.50E-01	0.06062497
WBGene00017570	-0.124804372	6	1.95E+00	0.094827091
WBGene00017569	-0.269062049	10	2.02E+01	-0.143563863
WBGene00003745	-0.236080806	5	3.32E+00	0.763862597
WBGene00017573	-0.489314485	8	8.05E+01	-0.023809063
WBGene00017568	0.298682384	7	7.07E-02	-0.070456561
WBGene00019266	0.907225926	5	1.98E-03	1
WBGene00019265	2	4	7.72E-06	2
WBGene00044578	0.449761733	4	5.35E-02	0.501874115
WBGene00019286	0.620082139	4	2.06E-02	0.68263427
WBGene00019287	1	16	3.13E-09	2
WBGene00017400	0.074356988	5	4.43E-01	0.110504791
WBGene00017401	3	4	9.51E-09	3
WBGene00004369	0.231074924	28	8.28E-03	0.164740343
WBGene00019571	0.01218313	20	1.80E+00	0.296106359
WBGene00019572	-0.303985687	5	5.17E+00	0.367449827
WBGene00019570	-0.284166481	7	8.81E+00	0.050483971
WBGene00018728	0.088180089	12	4.01E-01	0.480777765
WBGene00018727	-0.462664794	10	1.68E+02	-0.123293768
WBGene00018726	-0.250672383	4	2.70E+00	-0.022488965
WBGene00018725	-0.665396526	1	3.68E+00	-0.38369608
WBGene00018724	-0.025121784	1	5.66E-01	0.018806813
WBGene00018729	-0.321591236	2	1.94E+00	0.258795443
WBGene00018730	-0.512335428	2	4.02E+00	-0.322676247
WBGene00018731	-0.135910545	3	1.17E+00	0.046828483
WBGene00018732	-0.055939983	4	9.09E-01	0.33342168
WBGene00006587	0.590345433	11	1.05E-03	0.164421852
WBGene00017149	0.80549224	2	2.63E-02	0.569816872
WBGene00019732	-0.12561354	4	1.34E+00	-0.290238756
WBGene00019729	0.052031866	15	6.98E-01	0.337549873
WBGene00019728	0.222383311	5	1.69E-01	-0.066872239
WBGene00044313	-0.199621924	6	3.39E+00	-0.152343371
WBGene00019730	-0.345385334	8	2.15E+01	0.175659112
WBGene00019731	-0.152752837	23	9.09E+01	0.183230622
WBGene00019727	0.920482576	5	1.82E-03	0.837749133
WBGene00022811	0.212646693	9	1.15E-01	0.323175264
WBGene00022810	0.440742578	8	1.59E-02	0.324056538
WBGene00006764	0.959167719	5	1.42E-03	0.720532325
WBGene00006477	0.271043645	8	7.54E-02	0.482717979
WBGene00019870	0.414447516	2	1.17E-01	0.40603014
WBGene00019871	0.993754534	22	1.19E-09	0.822107357

WBGene00019872	0.674971677	33	3.70E-09	0.714570045
WBGene00019869	0.187763833	8	1.62E-01	0.365871768
WBGene00002057	0.262578665	13	3.72E-02	0.776465661
WBGene00016190	0.058216405	1	4.44E-01	0.078908946
WBGene00016191	0.372584322	4	8.24E-02	0.698372977
WBGene00016188	1	16	1.25E-08	1
WBGene00016187	2	3	6.82E-06	2
WBGene00006718	0.774569145	10	2.18E-04	0.7932816
WBGene00219376	0.200727731	2	2.64E-01	0.220248106
WBGene00016189	0.075601584	15	4.86E-01	0.117119083
WBGene00015529	0.57527053	3	4.10E-02	0.135881943
WBGene00044579	0	2	5.69E-01	0
WBGene00002092	-0.375203955	3	3.60E+00	-0.221065009
WBGene00006717	-0.009068028	3	6.41E-01	-0.012730761
WBGene00006716	0.005406368	2	5.57E-01	0
WBGene00015527	-0.019259455	4	7.40E-01	0.061977081
WBGene00015528	0	1	5.26E-01	0.009987512
WBGene00015740	0.745751935	20	8.33E-07	0.960440682
WBGene00017013	0.257032616	7	9.98E-02	0.147289815
WBGene00000884	0.122961307	10	2.75E-01	0.512238492
WBGene00003752	0.221985426	4	1.92E-01	0.177969126
WBGene00017012	0.106188552	24	2.59E-01	0.22260115
WBGene00017014	0.70889361	2	3.80E-02	0.971181504
WBGene00017039	1	23	1.09E-11	2
WBGene00016748	0.309091711	9	4.36E-02	0.160513659
WBGene00016747	0.10787111	7	3.43E-01	0.101571005
WBGene00006672	0.249087708	9	7.98E-02	0.414636214
WBGene00016034	0.617439349	10	1.22E-03	0.778139046
WBGene00016033	0.361391202	9	2.58E-02	0.316435894
WBGene00016032	0.489598378	14	1.17E-03	0.35452342
WBGene00044580	-0.161375324	4	1.64E+00	0.724169326
WBGene00020790	0.06230069	3	4.58E-01	0.349164905
WBGene00020791	0.018914219	2	5.29E-01	0.023832512
WBGene00020792	0.078224092	2	4.22E-01	1
WBGene00020789	0.444235691	2	1.04E-01	1
WBGene00004911	0.514219075	16	3.83E-04	0.576858665
WBGene00020788	-0.054126214	17	4.62E+00	-0.138373788
WBGene00020787	-0.644356289	2	6.65E+00	0.273853372
WBGene00018567	-0.134311769	20	3.32E+01	-0.045658438
WBGene00018566	-0.155151239	14	1.37E+01	0.077083988
WBGene00018568	0.396104004	11	1.05E-02	0.371127305
WBGene00018565	0.684417493	9	9.98E-04	0.839193435
WBGene00000100	0.329335208	79	9.32E-09	0.406019071
WBGene00016087	0.204313495	7	1.54E-01	0.480368679
WBGene00015263	-0.021337795	16	2.38E+00	0.049983173
WBGene00015262	0	5	7.18E-01	-0.099603355
WBGene00006479	0.357647614	25	5.59E-04	0.543794554

WBGene00015264	0.690086064	8	1.61E-03	1
WBGene00006637	0.014738665	6	6.96E-01	0.817864582
WBGene00077673	0.231885849	2	2.35E-01	1
WBGene00044687	0	1	5.26E-01	-0.007470927
WBGene00015261	0.222373124	3	2.16E-01	-0.067841734
WBGene00206365	-0.11469173	3	1.05E+00	0.448122645
WBGene00015265	0.013470554	2	5.40E-01	-0.011068095
WBGene00044581	0.061821597	5	4.80E-01	-0.129834047
WBGene00022317	0.003222988	5	7.03E-01	0
WBGene00022316	0.004640076	3	6.01E-01	0.003715051
WBGene00022315	-0.093038382	13	4.74E+00	-0.509693884
WBGene00044743	-0.004227679	2	5.78E-01	0.000384353
WBGene00016438	0.003837073	8	8.74E-01	0.530267943
WBGene00006887	0.196881231	40	6.42E-03	0.024190744
WBGene00000748	0.216592471	3	2.22E-01	-0.235602532
WBGene00017580	0.134229926	16	1.88E-01	0.412566067
WBGene00001674	-0.652703838	10	1.35E+03	-0.544704147
WBGene00003981	-0.18742427	12	1.35E+01	-0.075893113
WBGene00017581	-0.04565293	2	6.77E-01	-0.177188747
WBGene00017579	-0.140054173	2	9.71E-01	-0.092719564
WBGene00017582	-0.138652867	8	3.23E+00	-0.151696691
WBGene00015181	0.379718556	10	1.65E-02	0.382737671
WBGene00206482	-0.318266538	6	8.14E+00	-0.195265107
WBGene00015180	-0.641441182	4	2.41E+01	-0.134108167
WBGene00206483	0.053316414	1	4.50E-01	0.030771907
WBGene00015179	-0.407187779	6	1.57E+01	0.084381522
WBGene00001638	-0.061690206	6	1.22E+00	0.423017911
WBGene00015182	-0.041210629	2	6.66E-01	0.031572681
WBGene00015178	0.2287713	5	1.62E-01	0.430000413
WBGene00015177	0.130946381	19	1.77E-01	0.256659297
WBGene00045261	-0.476596306	2	3.51E+00	1
WBGene00044788	0.078392473	6	4.35E-01	0.113167048
WBGene00018067	0.022406585	14	1.04E+00	0.55512154
WBGene00020595	-0.181278182	13	1.58E+01	-0.047019399
WBGene00000161	0.415694273	15	2.56E-03	0.564723584
WBGene00020596	0.181674942	16	8.69E-02	0.503363038
WBGene00001463	0.005163552	2	5.58E-01	0.24628212
WBGene00004033	0.6283806	55	3.85E-13	0.646984733
WBGene00016009	0.353495448	6	5.70E-02	0.706541532
WBGene00016008	0.057608665	7	5.20E-01	-0.046483547
WBGene00016006	-0.381092703	96	2.75E+17	-0.306652793
WBGene00007130	-0.009681416	1	5.41E-01	0.001066912
WBGene00007129	-0.021278149	2	6.17E-01	0.001122954
WBGene00006538	-0.249661656	7	6.62E+00	-0.098719258
WBGene00007128	0.072024307	9	4.74E-01	-0.161531742
WBGene00014140	0.034509652	7	6.30E-01	-0.005777865
WBGene00014145	0.551914933	5	1.99E-02	0.519134881

WBGene00014141	-0.536404071	6	4.08E+01	0.101608486
WBGene00014142	0	1	5.26E-01	0.011924764
WBGene00006534	-0.331919437	7	1.31E+01	-0.092826998
WBGene00014143	-0.273924079	6	5.87E+00	0.295911709
WBGene00014144	0.308762431	8	5.33E-02	0.2287429
WBGene00001516	-0.126432357	95	4.50E+07	0.053514927
WBGene00007407	-0.031201927	1	5.77E-01	0.03786842
WBGene00007410	-0.669444321	12	6.26E+03	-0.431562274
WBGene00007408	0.010035443	2	5.47E-01	-0.016185062
WBGene00007409	-0.282174085	24	2.34E+03	-0.14093511
WBGene00195209	0.151944825	3	3.01E-01	0.481451328
WBGene00003828	0.088306489	7	4.03E-01	0.297882756
WBGene00009888	0.34208419	35	8.36E-05	0.217753253
WBGene00009885	0.206494798	7	1.52E-01	0.192701447
WBGene00009886	-0.059702506	8	1.57E+00	-0.043944853
WBGene00009887	-0.380520959	5	8.49E+00	0.117002721
WBGene00007516	-0.159104672	2	1.04E+00	-0.097156829
WBGene00007517	-0.003393663	3	6.25E-01	-0.002221106
WBGene00007518	-0.005386905	9	1.03E+00	-0.000533598
WBGene00007520	0.760141357	22	1.88E-07	1
WBGene00007521	0.125788496	6	3.06E-01	0.507370518
WBGene00007522	0.335023739	3	1.27E-01	0.533947663
WBGene00009378	0.027661119	3	5.40E-01	0.04949657
WBGene00009379	0.029497114	1	4.83E-01	-0.016535489
WBGene00009380	0.186408774	5	2.14E-01	0.716007913
WBGene00009382	0.573890338	3	4.12E-02	0.787666632
WBGene00009381	0.235216754	8	1.05E-01	0.746050238
WBGene00000085	0.584488371	12	7.19E-04	0.747067205
WBGene00011763	0.467529353	13	2.27E-03	0.406933836
WBGene00195084	0.136203064	2	3.38E-01	0.612106956
WBGene00002067	0.027786171	18	1.19E+00	-0.149219489
WBGene00008065	-0.344646445	22	4.70E+03	-0.000412611
WBGene00001123	-0.104580769	7	1.99E+00	-0.000723136
WBGene00008865	-0.093591927	5	1.32E+00	0.291611244
WBGene00008866	-0.326653145	13	1.15E+02	-0.077836314
WBGene00008869	-0.50750634	11	4.67E+02	-0.074460135
WBGene00001863	0.78490484	95	1.93E-27	0.770241652
WBGene00008868	0.521054463	10	3.51E-03	0.161702801
WBGene00011642	0.038684354	5	5.58E-01	-0.090005199
WBGene00011644	-0.826144414	10	9.03E+03	-0.435550433
WBGene00011643	-0.145819787	12	7.92E+00	-0.235683366
WBGene00011645	0.202797297	12	9.32E-02	0.31067302
WBGene00011646	-0.583160278	5	3.17E+01	0.179074275
WBGene00009482	-0.297454894	27	9.39E+03	-0.159325956
WBGene00009483	0.266625879	4	1.49E-01	0.569374196
WBGene00009484	-0.020297386	6	9.01E-01	-0.354707473
WBGene00009799	0.586553843	13	4.49E-04	0.529237789

WBGene00001081	0.227078747	51	5.18E-04	0.412092948
WBGene00009800	0.374707074	19	1.72E-03	0.472704319
WBGene00009801	0.271663564	22	7.44E-03	0.044233838
WBGene00006881	-0.207851067	10	1.03E+01	0.02390283
WBGene00002271	-0.327612147	6	8.72E+00	-0.136008027
WBGene00002270	-0.503971428	5	1.89E+01	0.269722616
WBGene00011082	-0.075228002	4	1.01E+00	0.910739759
WBGene00011076	-0.03996783	10	1.64E+00	-0.011132413
WBGene00001784	-0.044378321	5	9.57E-01	0.133580831
WBGene00011077	-0.023629702	8	1.12E+00	0.065235721
WBGene00011078	0	1	5.26E-01	-0.001511673
WBGene00011079	0	2	5.69E-01	-0.000845738
WBGene00138711	-0.04583065	2	6.78E-01	-0.008491885
WBGene00001608	-0.864823708	8	2.52E+03	-0.267961241
WBGene00011083	-0.700504253	28	7.11E+08	-0.685860034
WBGene00011081	-0.571493279	10	5.54E+02	-0.842379782
WBGene00003410	-0.675155308	27	1.82E+08	-0.561372043
WBGene00009023	-0.299704947	9	2.00E+01	-0.195454403
WBGene00009024	-0.136780297	6	2.13E+00	0.075108341
WBGene00009025	0.047805254	8	5.84E-01	0.332805897
WBGene00009026	-0.010789298	7	9.16E-01	-0.089884168
WBGene00009027	-0.003105634	25	3.65E+00	-0.19083579
WBGene00007648	-0.174532251	6	2.82E+00	-0.267794014
WBGene00007649	-0.665159874	9	7.91E+02	-0.956939017
WBGene00007650	-0.917666078	10	2.46E+04	-1
WBGene00007651	0.370239435	20	1.46E-03	-0.097582203
WBGene00023491	-0.064911488	18	6.36E+00	-0.149349651
WBGene00219544	-0.083771919	4	1.06E+00	-0.038831135
WBGene00007652	-0.369456339	10	6.06E+01	0.094456569
WBGene00003553	-0.343777147	23	6.77E+03	-0.361597555
WBGene00007653	0.16286304	9	1.90E-01	0.203745326
WBGene00013919	-0.095527073	23	2.50E+01	-0.116604144
WBGene00013920	0.258565674	16	2.48E-02	0.033859547
WBGene00003232	-0.049790164	21	6.98E+00	0.043311104
WBGene00008954	-0.106724293	8	2.41E+00	-0.114306943
WBGene00001708	0.344885343	20	2.41E-03	0.661655449
WBGene00008951	0.015766708	8	7.84E-01	-0.05252575
WBGene00008952	0.314096634	12	2.26E-02	0.011488868
WBGene00008953	-0.274735752	12	4.09E+01	0.028924266
WBGene00009645	-0.152351778	18	3.10E+01	0.068459546
WBGene00003368	0.378629774	8	2.81E-02	0.293024178
WBGene00012162	0.14302524	9	2.32E-01	0.456710335
WBGene00013872	0.038492588	28	1.51E+00	0.211691302
WBGene00013871	-0.050497302	12	2.35E+00	-0.232630022
WBGene00013866	0.450418496	20	2.96E-04	-0.227008774
WBGene00013867	0.121864722	1	3.69E-01	0.015229543
WBGene00013868	-0.275468869	9	1.57E+01	-0.157082444

WBGene00013869	0.027623422	19	1.26E+00	0.149183517
WBGene00013870	0.04218026	5	5.46E-01	0.171644509
WBGene00000930	0.095723817	7	3.79E-01	-0.076511117
WBGene00000749	0.258601482	8	8.45E-02	0.208385489
WBGene00012326	0.265650211	70	3.98E-06	0.30667044
WBGene00044686	0.41119711	4	6.64E-02	0.256565604
WBGene00001446	0.119959986	3	3.49E-01	0.290510938
WBGene00001445	0.510864925	4	3.80E-02	0.627017279
WBGene00006792	0.714556571	46	7.29E-13	0.629986329
WBGene00011553	0.602495914	5	1.43E-02	0.293200139
WBGene00011552	0.11192519	2	3.71E-01	0.19167386
WBGene00003384	0.533540371	6	1.51E-02	0.729642672
WBGene00008602	0.051695437	5	5.13E-01	0.532864594
WBGene00006839	1	15	4.83E-08	0.95850977
WBGene00008604	0.28350885	4	1.36E-01	0.398547478
WBGene00001331	0.3241876	9	3.75E-02	0.103162808
WBGene00008603	-0.129885518	6	2.02E+00	-0.285394731
WBGene00007396	0.163761587	9	1.88E-01	-0.023943208
WBGene00007397	-0.033106288	7	1.10E+00	0.124799888
WBGene00007398	0.112012839	5	3.47E-01	-0.300794836
WBGene00008998	-0.042109669	9	1.50E+00	0.128638498
WBGene00008999	0.303332202	36	2.50E-04	0.38562372
WBGene00009000	0.44378722	7	2.13E-02	0.478070098
WBGene00009674	0.083895966	14	4.26E-01	0.128607553
WBGene00004786	-0.131445258	10	4.46E+00	-0.092697092
WBGene00009675	0	1	5.26E-01	0
WBGene00009676	0	2	5.69E-01	-0.00076451
WBGene00009677	-0.221300533	7	5.24E+00	-0.18154139
WBGene00007593	-0.0130505	18	2.49E+00	0.147444467
WBGene00007591	-0.050105195	9	1.62E+00	0.042860533
WBGene00006135	0.00399836	1	5.20E-01	0
WBGene00007592	-0.017293619	31	9.00E+00	0.199468772
WBGene00007861	0.225264082	4	1.88E-01	-0.360036434
WBGene00009618	-0.268087935	19	3.45E+02	-0.135028021
WBGene00009617	-0.240960966	9	1.11E+01	0.022022257
WBGene00009619	-0.254290078	13	4.28E+01	-0.186492131
WBGene00009620	0.007080602	2	5.54E-01	0.215137734
WBGene00009621	0.095213331	2	3.96E-01	0.26321785
WBGene00009624	-0.051152782	1	6.11E-01	-0.624690098
WBGene00009622	0.051582047	9	5.82E-01	0.203997971
WBGene00009623	-0.002826951	8	9.29E-01	0.234250109
WBGene00009625	-0.177181601	10	7.37E+00	-0.100364436
WBGene00011107	-0.339719225	10	4.37E+01	-0.15106407
WBGene00011106	-0.234398329	13	3.26E+01	0.252520364
WBGene00011105	0.007287018	6	7.35E-01	-0.155103693
WBGene00011104	-0.457219547	16	2.92E+03	-0.205557081
WBGene00011103	-0.366029452	2	2.30E+00	-0.088216187

WBGene00011102	-0.229064041	5	3.18E+00	-0.207502382
WBGene00011108	-0.268252514	3	2.17E+00	-0.018203445
WBGene00013028	-0.340587006	8	2.06E+01	-0.762373254
WBGene00044949	0.35514316	5	7.15E-02	0.318644703
WBGene00004375	0.087365952	11	4.06E-01	0.234919372
WBGene00001122	-0.251139521	16	1.01E+02	0.049106865
WBGene00009793	0.67269017	22	1.25E-06	0.43406939
WBGene00001804	-0.181410708	13	1.58E+01	0.085247641
WBGene00013916	-0.209416641	8	6.18E+00	0.092540478
WBGene00000047	0.096126954	18	3.45E-01	-0.286056199
WBGene00013917	0.219581215	16	4.68E-02	0.266015887
WBGene00003247	0.560388101	19	5.07E-05	0.520032892
WBGene00008023	-0.051986971	2	6.94E-01	0.056626737
WBGene00008024	-0.693472976	4	3.23E+01	-0.087334448
WBGene00008025	0.146699801	2	3.25E-01	0.699695252
WBGene00008022	0.065172803	16	5.81E-01	0.245057223
WBGene00008021	-0.416022244	13	3.88E+02	0.170107256
WBGene00001252	0.010529325	2	5.46E-01	0.207386939
WBGene00164973	-0.32346017	4	4.07E+00	-0.226743217
WBGene00001250	-0.168304389	7	3.38E+00	-0.229253314
WBGene00007894	-0.057488898	4	9.16E-01	0.173926851
WBGene00007895	-0.325815422	4	4.12E+00	-0.20195399
WBGene00007896	-0.424920361	21	1.69E+04	-0.138176857
WBGene00006870	-0.08356044	23	1.91E+01	-0.032338869
WBGene00008807	-0.132464675	2	9.43E-01	-0.235159318
WBGene00008806	0.368855958	6	5.09E-02	0.177716832
WBGene00008805	0.095771224	10	3.70E-01	0.29552559
WBGene00045480	-0.071718583	3	8.62E-01	0.045392753
WBGene00010340	-0.267055207	9	1.44E+01	0.017227701
WBGene00010341	-0.263077852	13	4.82E+01	0.117065612
WBGene00010342	0.12622602	15	2.22E-01	0.494889508
WBGene00010343	-0.023102957	2	6.21E-01	0.013325136
WBGene00010344	0.03979878	6	5.78E-01	0.098884007
WBGene00006364	0.634063023	23	1.77E-06	0.406700699
WBGene00010345	-0.209841893	17	6.73E+01	-0.133016066
WBGene00010199	0.442824491	21	2.50E-04	0.513733746
WBGene00003733	0.168378045	9	1.80E-01	0.006718351
WBGene00010200	-0.150724326	26	1.64E+02	-0.104860624
WBGene00004749	0.905902648	7	4.64E-04	0.579117913
WBGene00001462	0.642775254	2	4.90E-02	0.011442216
WBGene00000018	-0.039254028	37	3.39E+01	-0.095953177
WBGene00010902	0.03613847	5	5.68E-01	0.13301176
WBGene00000908	0.343419067	42	1.61E-05	0.337931881
WBGene00008668	0.278309485	5	1.18E-01	0.301462602
WBGene00008746	0.174571605	15	1.06E-01	0.25196852
WBGene00008745	0.001203543	2	5.66E-01	-0.0019857
WBGene00008747	0.110942123	4	3.57E-01	-0.134376723

WBGene00008748	0.539278414	11	1.92E-03	-0.094822164
WBGene00008749	0.442468728	12	4.39E-03	0.574014421
WBGene00006468	0.398010371	33	2.27E-05	0.509673754
WBGene00011317	0.563140751	4	2.83E-02	0.541063826
WBGene00011315	-0.077011962	3	8.83E-01	-0.061498856
WBGene00001202	0.298538442	31	7.58E-04	0.039700846
WBGene00011073	-0.078279121	5	1.19E+00	0.456270789
WBGene00011075	-0.156673701	16	2.17E+01	-0.052153329
WBGene00011074	-0.022628814	7	1.01E+00	-0.115255126
WBGene00004862	0.627722618	49	7.22E-12	0.527592186
WBGene00000525	0.102159702	4	3.75E-01	0.889353894
WBGene00011460	-0.663217443	12	5.78E+03	-0.397441642
WBGene00011462	-0.380781925	14	3.64E+02	-0.369501853
WBGene00011463	0.044625358	3	4.98E-01	0.143347161
WBGene00004036	0.318290234	64	4.61E-07	0.290461396
WBGene00009283	0.045112982	1	4.61E-01	0.039002871
WBGene00001495	0.687684939	76	2.38E-19	0.689733449
WBGene00007317	0.554878233	6	1.29E-02	-0.110258699
WBGene00003999	-0.055572318	13	2.85E+00	0.24125896
WBGene00004002	-0.464020635	13	7.46E+02	-0.040606914
WBGene00004001	-0.010468914	13	1.54E+00	-0.124428282
WBGene00004000	-0.069537936	16	5.23E+00	-0.195382291
WBGene00011902	-0.381172918	6	1.30E+01	-0.169069004
WBGene00164971	-0.067955449	5	1.12E+00	-0.418300038
WBGene00164972	-0.664589078	6	1.05E+02	-0.516554765
WBGene00011903	-0.023163078	2	6.21E-01	-0.005314749
WBGene00009817	0.205177618	3	2.34E-01	-0.432318623
WBGene00009816	-0.613660714	7	1.35E+02	-0.476667194
WBGene00009815	-0.033988879	1	5.81E-01	-0.012093089
WBGene00009814	-0.411376241	5	1.04E+01	-0.153006768
WBGene00009813	-0.496575005	14	1.96E+03	0.128749844
WBGene00009812	0.639543448	12	3.57E-04	0.217723826
WBGene00009818	-0.260843684	5	3.90E+00	0.327339043
WBGene00009819	0.111399186	16	2.74E-01	-0.034331703
WBGene00009820	-0.075476307	5	1.17E+00	-0.168966698
WBGene00011882	0.052154078	8	5.61E-01	0.099974693
WBGene00000961	0.093953592	20	3.54E-01	-0.148761884
WBGene00011879	0.065555209	6	4.78E-01	-0.017382644
WBGene00011880	0.357030835	12	1.31E-02	-0.043865181
WBGene00010717	0.196979041	2	2.68E-01	0.551591466
WBGene00003943	0.177681598	10	1.51E-01	0.028722494
WBGene00003757	0.337336099	3	1.26E-01	0.725080214
WBGene00010715	0.489588983	6	2.08E-02	0.944328238
WBGene00003529	1	11	2.58E-06	0.962667729
WBGene00010716	0.290004065	11	3.68E-02	0.183027126
WBGene00164969	0.384931388	1	1.71E-01	-0.181477147
WBGene00010718	0.042708603	4	5.23E-01	0.788586201

WBGene00004257	0.195471527	23	3.52E-02	0.512278561
WBGene00006897	0.056669468	19	7.24E-01	-0.073734311
WBGene00006896	0.094714712	19	3.52E-01	0.285537157
WBGene00010335	0.130265044	5	3.08E-01	-0.006263782
WBGene00000750	-0.379773948	9	4.47E+01	-0.07030022
WBGene00010334	-1	14	3.02E+07	-0.681018978
WBGene00010225	-0.849984279	2	1.46E+01	-0.446352068
WBGene00010224	-0.291333848	4	3.40E+00	0.176013774
WBGene00010223	0.073816133	2	4.29E-01	0.032941972
WBGene00001184	-0.247219527	25	1.39E+03	-0.237477242
WBGene00002261	0.495576742	33	1.05E-06	0.021386656
WBGene00007483	-0.275252416	11	2.98E+01	-0.156249713
WBGene00000522	-0.095599184	2	8.19E-01	-0.114223641
WBGene00007482	-0.484853138	11	3.57E+02	-0.324525284
WBGene00012261	-0.017348619	8	1.06E+00	-0.245439426
WBGene00012255	-0.235087039	4	2.48E+00	-0.218302756
WBGene00012256	0.023938332	5	6.14E-01	-0.132053411
WBGene00012257	-0.199420776	5	2.62E+00	-0.599408953
WBGene00000166	0.218501504	10	9.65E-02	0.417703231
WBGene00012258	-0.252610334	4	2.73E+00	0.219228411
WBGene00044151	-0.117899731	3	1.07E+00	0.225787676
WBGene00044152	0.191940547	1	3.00E-01	0.007621308
WBGene00194793	0.339315867	4	9.93E-02	0.389743373
WBGene00012259	-0.165922734	21	7.79E+01	0.125876555
WBGene00012260	-0.027064393	6	9.47E-01	0.375500119
WBGene00044153	-0.104698217	5	1.42E+00	-0.05331411
WBGene00195208	0.748176097	4	1.01E-02	0.778184146
WBGene00012217	0.013922723	7	7.47E-01	0.017046301
WBGene00011140	-0.410244392	11	1.48E+02	-0.438041962
WBGene00001690	-0.179673654	25	2.69E+02	-0.169609898
WBGene00011141	-0.417369199	4	6.88E+00	-0.00624602
WBGene00011139	0.219177194	3	2.19E-01	0.156020376
WBGene00044330	0.090941678	15	3.83E-01	0.50042447
WBGene00007327	-0.108965947	18	1.41E+01	0.254810625
WBGene00007326	0.042252419	12	7.21E-01	-0.088711416
WBGene00007325	2	10	1.37E-11	2
WBGene00008735	0.308829721	72	1.65E-07	0.49494681
WBGene00008736	0.298899237	8	5.84E-02	0.220403298
WBGene00008737	0.418594517	4	6.37E-02	0.5369178
WBGene00007938	-0.213868784	18	9.43E+01	-0.381224289
WBGene00000751	-0.362150515	4	5.05E+00	-0.209171928
WBGene00000752	-0.080148689	4	1.04E+00	0.400781983
WBGene00007945	-0.017601877	4	7.33E-01	-0.018079055
WBGene00002029	-0.077859075	13	3.86E+00	-0.01836027
WBGene00007939	0.433336101	4	5.86E-02	0.227351711
WBGene00007941	0.156933574	16	1.30E-01	0.192035383
WBGene00007942	0.154467797	11	1.83E-01	0.221272431

WBGene00007943	0.865833527	24	4.74E-09	0.800069461
WBGene00195211	-0.003746065	2	5.77E-01	-0.006102897
WBGene00007944	0.160683986	25	6.76E-02	0.176368488
WBGene00007266	0.421236508	7	2.56E-02	0.7010778
WBGene00007267	0.035832004	9	6.82E-01	0.548615345
WBGene00284849	-0.001077066	3	6.18E-01	0.02409179
WBGene00007268	-0.001196916	2	5.71E-01	0.02912424
WBGene00002050	-0.63744552	21	1.40E+06	-0.732707193
WBGene00009529	-0.065029153	2	7.29E-01	0.006877674
WBGene00194663	-0.083562642	2	7.82E-01	-0.081669347
WBGene00009530	-0.202245377	19	9.89E+01	0.063403254
WBGene00009531	0.106671801	6	3.53E-01	-0.19298248
WBGene00002124	0.010485334	9	8.81E-01	0.30163038
WBGene00008586	-0.385267031	6	1.33E+01	-0.2454425
WBGene00008587	-0.038817781	6	1.03E+00	0.546571839
WBGene00008585	-0.139158378	6	2.17E+00	0.213530512
WBGene00006922	-0.133336915	3	1.15E+00	0.115364199
WBGene00008588	-0.028369239	1	5.72E-01	0.005072739
WBGene00044135	-0.176557522	6	2.86E+00	-0.038092221
WBGene00008589	-0.001930791	1	5.29E-01	-0.006554447
WBGene00013976	-0.507695601	14	2.30E+03	-0.132295089
WBGene00000212	-0.212919557	11	1.42E+01	-0.161126471
WBGene00013975	0	3	6.15E-01	0
WBGene00013974	-0.000213528	7	8.40E-01	-0.075900952
WBGene00001536	-0.364037525	22	7.15E+03	-0.263610703
WBGene00000040	0.057162192	19	7.17E-01	0.05238559
WBGene00003843	0.067152681	15	5.53E-01	0.075898056
WBGene00003997	-0.27579944	12	4.15E+01	-0.278008628
WBGene00003998	-0.026448586	10	1.41E+00	0.196700469
WBGene00009632	0.241864593	20	1.87E-02	0.291251886
WBGene00009633	0.192756591	8	1.55E-01	0.007280796
WBGene00006584	0.661755284	4	1.63E-02	0.425365467
WBGene00008571	0.022380679	20	1.47E+00	0.283508293
WBGene00303052	0.123482816	2	3.55E-01	0.723308246
WBGene00004197	0.424521221	4	6.16E-02	0.860693378
WBGene00004831	0.066669159	25	6.67E-01	0.129268461
WBGene00008572	-0.27555242	3	2.25E+00	-0.326057124
WBGene00003970	0.233355376	14	4.86E-02	0.198678607
WBGene00009777	-0.008321049	4	6.96E-01	0.110107237
WBGene00045253	-0.298335192	4	3.53E+00	-0.393397445
WBGene00002037	-0.301239406	46	7.48E+06	-0.232397258
WBGene00164974	-1	2	3.39E+01	-0.637156962
WBGene00009842	-0.240473389	5	3.42E+00	-0.421423002
WBGene00009843	0.626446095	11	6.82E-04	0.363908173
WBGene00003003	0.317405282	52	5.74E-06	0.04156591
WBGene00004994	0.007179543	4	6.38E-01	0.008031608
WBGene00044284	-2	3	8.19E+02	-0.2561179

WBGene00012018	-0.577286518	38	9.56E+09	-0.392126491
WBGene00009257	-0.336546162	18	8.69E+02	-0.03340666
WBGene00009258	0.188064651	6	1.93E-01	0.512001644
WBGene00009259	-0.306341641	31	4.82E+04	-0.348704439
WBGene00004746	0.106725195	39	1.96E-01	0.162906467
WBGene00007957	-0.127249164	6	1.99E+00	-0.043199083
WBGene00007958	-0.115614639	1	7.38E-01	-0.412491688
WBGene00007954	-0.954616636	22	2.58E+09	-0.991828082
WBGene00044121	-0.153809966	10	5.70E+00	-0.166988454
WBGene00007955	0.469622204	3	6.74E-02	0.118453124
WBGene00003239	-0.07243123	5	1.15E+00	0.304922656
WBGene00007959	0.090389316	19	3.82E-01	0.157529238
WBGene00002975	-0.493868348	12	6.68E+02	-0.558334396
WBGene00007956	0.186341034	14	9.62E-02	0.293335438
WBGene00001490	0.584497157	42	1.17E-09	0.640765893
WBGene00009929	-0.212043249	16	5.35E+01	-0.107797241
WBGene00009930	-0.146885966	8	3.48E+00	-0.54231201
WBGene00001502	1	5	1.10E-04	0.76153079
WBGene00009931	0	3	6.15E-01	-0.046839756
WBGene00006065	-0.059793076	4	9.28E-01	-0.054307788
WBGene00006694	-0.637135845	9	5.96E+02	-0.237284736
WBGene00206537	-0.202224048	2	1.23E+00	-0.299500048
WBGene00006068	0.082533921	5	4.20E-01	0.102320454
WBGene00006066	0.798734314	9	3.16E-04	0.602998718
WBGene00011446	0.02188057	1	4.94E-01	0.163198918
WBGene00011443	-0.092598844	6	1.54E+00	0.186402655
WBGene00011441	0.008070013	5	6.81E-01	-0.043322959
WBGene00011442	-0.052736867	1	6.14E-01	0.005051644
WBGene00011440	-0.376530256	8	2.86E+01	-0.294252523
WBGene00011444	0.219996278	22	2.28E-02	0.42981374
WBGene00011447	-0.074296714	8	1.79E+00	0.050759095
WBGene00011445	-0.152736228	6	2.40E+00	-0.151122507
WBGene00001981	-0.369236414	8	2.68E+01	0.107079389
WBGene00008088	-0.482545151	7	4.55E+01	-0.359960229
WBGene00008090	0.112513378	5	3.46E-01	0.460558311
WBGene00008086	-0.159431079	6	2.52E+00	-0.055836815
WBGene00008085	-0.044957191	6	1.08E+00	0.068374296
WBGene00044133	-0.745208764	4	4.31E+01	-0.552328634
WBGene00008087	-0.015952641	3	6.63E-01	-0.293393018
WBGene00219301	-0.520414131	5	2.11E+01	-0.37354088
WBGene00008084	-0.178675214	8	4.66E+00	-0.143366984
WBGene00043985	-0.001080212	9	9.89E-01	0.374914722
WBGene00000753	-0.17230448	9	5.54E+00	-0.078259392
WBGene00008089	-0.519541926	11	5.39E+02	-0.154938822
WBGene00008369	-0.15994092	5	2.03E+00	-0.09863701
WBGene00001790	-0.395330739	5	9.35E+00	-0.233911987
WBGene00008367	0.252231706	9	7.73E-02	-0.013100198

WBGene00008368	-0.21154387	18	9.04E+01	-0.082657478
WBGene00043187	0.169676125	2	2.98E-01	1
WBGene00008049	-0.0003203	2	5.70E-01	0.038197397
WBGene00008045	0.864968477	9	1.62E-04	0.965479515
WBGene00008047	0.030618149	6	6.19E-01	0.04746094
WBGene00006654	-0.186658111	12	1.33E+01	0.008518004
WBGene00013631	-0.007887975	4	6.94E-01	-0.034285981
WBGene00004682	0.236556788	20	2.08E-02	0.197497744
WBGene00007937	0.035446752	2	4.97E-01	0.073603348
WBGene00007935	-0.190583186	21	1.30E+02	-0.175530334
WBGene00138725	0.431504082	1	1.49E-01	0.38438073
WBGene00044079	0.389102703	35	1.75E-05	0.32958549
WBGene00006388	-0.253614361	6	5.05E+00	0.606910805
WBGene00010064	-0.191522927	5	2.49E+00	0.166136339
WBGene00045251	-0.177796634	2	1.12E+00	-0.293269207
WBGene00010065	0.000553674	3	6.13E-01	-0.000363899
WBGene00269392	0.094170723	5	3.89E-01	0.039837914
WBGene00006965	-0.092852284	3	9.52E-01	-0.058276508
WBGene00010068	-0.686027004	7	2.45E+02	-0.250469205
WBGene00003219	-0.429952567	19	7.47E+03	-0.473220493
WBGene00077680	-0.343913703	5	6.70E+00	-0.202423686
WBGene00010066	-0.098288727	6	1.60E+00	-0.412505243
WBGene00010067	-0.4066745	12	2.20E+02	-0.350336019
WBGene00013389	-0.070302125	4	9.85E-01	-0.203410906
WBGene00013390	0.10345082	2	3.83E-01	-0.034082142
WBGene00013391	-0.053029048	4	8.94E-01	-0.375450345
WBGene00013392	0.061826725	4	4.70E-01	-0.438302302
WBGene00013393	-0.489564756	3	6.16E+00	-0.137585176
WBGene00013394	0.138551609	4	3.06E-01	-0.242300724
WBGene00013395	-0.032157274	9	1.35E+00	0.065003632
WBGene00013396	0	5	7.18E-01	0.246659457
WBGene00013397	-0.064878066	4	9.55E-01	0.01334653
WBGene00013398	-0.173433639	7	3.52E+00	0.037627194
WBGene00013399	0	4	6.64E-01	-0.065489742
WBGene00045252	-0.012297423	5	7.77E-01	0
WBGene00013400	-0.773634752	8	1.09E+03	-0.34832903
WBGene00013401	0.059933145	11	5.62E-01	0.069609257
WBGene00013402	0.152559675	4	2.83E-01	0.26943534
WBGene00010119	0.221458446	8	1.19E-01	0.343285191
WBGene00045493	1	7	1.57E-05	1
WBGene00010120	-0.241716771	10	1.49E+01	0.682841375
WBGene00195215	0.113412659	1	3.78E-01	0.181983247
WBGene00010121	-0.163487061	6	2.59E+00	-0.027296814
WBGene00011614	0.186953769	6	1.95E-01	0.683278057
WBGene00011615	-0.105425717	18	1.32E+01	0.233241776
WBGene00044148	0.251391394	5	1.40E-01	-0.008063441
WBGene00011616	-0.317403968	4	3.93E+00	-0.121810624

WBGene00206466	-0.031757485	1	5.78E-01	-0.016781093
WBGene00008212	-0.400847979	7	2.31E+01	-0.509965811
WBGene00268215	0.049885311	2	4.70E-01	-0.294169441
WBGene00008205	0.050450676	11	6.28E-01	-0.080168908
WBGene00012158	-0.052661477	98	1.08E+05	0.005866904
WBGene00008206	0.028105396	13	9.10E-01	0.399894025
WBGene00008208	-0.049297031	3	7.75E-01	-0.18502363
WBGene00008207	-0.706589397	5	7.06E+01	-0.617223179
WBGene00008209	0.00496675	6	7.48E-01	0.195877519
WBGene00008210	0.255762546	10	6.41E-02	-0.11363738
WBGene00008211	-0.006004026	4	6.87E-01	0.004409268
WBGene00004859	-0.15349943	20	4.86E+01	-0.045488459
WBGene00012295	-0.632279209	8	2.99E+02	-0.369813436
WBGene00007115	0.003293415	5	7.03E-01	-0.10025984
WBGene00006646	-0.235530058	11	1.86E+01	-0.368057408
WBGene00007116	0.071364799	40	7.32E-01	0.095907253
WBGene00007594	-0.094508614	8	2.15E+00	-0.087132519
WBGene00045385	-0.172590949	5	2.20E+00	0.083507608
WBGene00007595	-0.392340985	8	3.31E+01	-0.053364556
WBGene00012226	0.296924619	37	2.58E-04	0.307014074
WBGene00012225	0.276037499	9	6.08E-02	0.306008329
WBGene00000754	2	7	1.37E-09	1
WBGene00012224	0.946104018	5	1.54E-03	0.938027742
WBGene00011354	0.08766409	7	4.06E-01	0.215618024
WBGene00011355	0.071498349	8	4.70E-01	0.194035995
WBGene00011356	0.372511878	6	4.95E-02	0.152372217
WBGene00011358	0.169955712	8	1.91E-01	-0.115530905
WBGene00011359	0.039719811	10	6.84E-01	-0.123946876
WBGene00269422	0.005670109	2	5.57E-01	0.026636386
WBGene00011360	0.312381785	5	9.44E-02	0.248045479
WBGene00011361	0.101571706	37	2.44E-01	0.282750025
WBGene00010926	-0.10034068	7	1.92E+00	-0.094775132
WBGene00045481	-0.50752673	5	1.94E+01	0.071755725
WBGene00010924	-0.297934302	6	7.00E+00	-0.291657428
WBGene00044144	-0.0676966	7	1.47E+00	0.227169922
WBGene00010925	-0.014807123	9	1.14E+00	-0.169931065
WBGene00010222	0.305851604	13	2.06E-02	0.483192005
WBGene00010221	0.952282225	9	6.73E-05	1
WBGene00000277	0.080509531	23	4.71E-01	0.229707464
WBGene00044132	-0.014553107	4	7.21E-01	-0.045902742
WBGene00007691	-0.016878132	10	1.27E+00	-0.090545355
WBGene00007695	0	2	5.69E-01	0.002939554
WBGene00007692	0.046600573	8	5.91E-01	-0.013261307
WBGene00007693	-0.150186829	9	4.44E+00	0.246477775
WBGene00007694	-0.231870077	22	4.08E+02	-0.015499701
WBGene00008451	-0.152585955	7	2.96E+00	-0.008156783
WBGene00008450	0.281977797	5	1.15E-01	0.567984292

WBGene00008449	-0.794250424	22	8.00E+07	-0.644270565
WBGene00010403	-0.226790879	10	1.27E+01	-0.238158166
WBGene00010404	-0.490520488	6	2.90E+01	-0.174353062
WBGene00007294	-0.055143663	5	1.03E+00	-0.213851004
WBGene00007289	0.167364663	7	2.10E-01	-0.044427719
WBGene00007290	-0.033915549	3	7.21E-01	-0.002610295
WBGene00007291	-0.091342011	5	1.30E+00	-0.199229813
WBGene00007293	0	2	5.69E-01	0.010718274
WBGene00007292	-0.25830824	12	3.32E+01	-0.079818967
WBGene00012299	-0.010995172	3	6.47E-01	-0.022425962
WBGene00012300	-0.094212026	3	9.58E-01	-0.120607391
WBGene00012301	-0.024065686	2	6.24E-01	-0.006402381
WBGene00012303	-0.324226752	7	1.23E+01	-0.751068442
WBGene00012302	-0.615313134	9	4.79E+02	-0.846495455
WBGene00008902	-0.051208099	5	1.00E+00	-0.034304073
WBGene00304215	0.29259598	7	7.43E-02	-0.356671371
WBGene00008903	0.016099764	7	7.33E-01	0.144749557
WBGene00006966	0.365585577	9	2.47E-02	0.524540987
WBGene00000461	0.114189154	7	3.26E-01	0.497675908
WBGene00008904	0.065618435	8	4.96E-01	0.350080123
WBGene00005118	-0.202825274	4	2.07E+00	0.058044647
WBGene00005119	-0.080066828	4	1.04E+00	-0.086971013
WBGene00005123	-0.267692529	5	4.08E+00	0.305756305
WBGene00005124	-0.248605664	5	3.61E+00	0.318387093
WBGene00005125	0.086344915	4	4.10E-01	0.107143184
WBGene00005126	2	5	2.51E-05	1
WBGene00005122	1	4	2.48E-04	1
WBGene00006979	0.495795847	1	1.24E-01	0.199074836
WBGene00009634	0.06028221	3	4.63E-01	0.386971239
WBGene00009640	0.070965676	3	4.40E-01	0.41916415
WBGene00044140	0.053389221	3	4.78E-01	0.14755678
WBGene00194795	-0.000835072	1	5.28E-01	0.020498819
WBGene00009635	0.961682977	8	1.34E-04	0.694965204
WBGene00009636	0.092215573	6	3.92E-01	0.524045738
WBGene00023493	-0.015747747	2	6.04E-01	0.310551539
WBGene00009637	-0.061576669	2	7.19E-01	-0.150104609
WBGene00009638	0.123477652	2	3.55E-01	0.268451599
WBGene00009639	0.045815003	2	4.78E-01	-0.062039743
WBGene00008961	0.001476983	1	5.24E-01	0.041494252
WBGene00008960	1	4	8.82E-04	2
WBGene00008959	2	8	3.22E-07	2
WBGene00008958	1	11	1.60E-06	0.924393272
WBGene00008957	0.529054005	15	4.46E-04	0.652790477
WBGene00008956	0.054782068	5	5.03E-01	-0.104814256
WBGene00008924	0.358901931	13	1.00E-02	0.300184463
WBGene00002991	0.345318875	42	1.49E-05	0.19088392
WBGene00023492	0.368115614	4	8.45E-02	0.070902829

WBGene00003180	-0.135378671	2	9.53E-01	0.355749341
WBGene00011824	0.121208475	16	2.33E-01	0.058565207
WBGene00011823	0.245312102	9	8.29E-02	0.424324027
WBGene00011826	0.140396912	8	2.50E-01	0.647857655
WBGene00011820	1	17	2.64E-11	0.99187967
WBGene00003854	0.569646109	9	3.17E-03	1
WBGene00011822	-0.025705321	2	6.27E-01	0.02986793
WBGene00011821	-0.448137544	4	8.17E+00	0.104903452
WBGene00003514	-0.972403899	37	5.49E+15	-0.80439316
WBGene00009725	-0.112013571	8	2.53E+00	0.166273747
WBGene00000222	0.226687391	11	7.79E-02	0.522351677
WBGene00009726	0.127086735	18	1.97E-01	0.369491308
WBGene00009727	-0.258685244	13	4.54E+01	0.030260288
WBGene00009728	0.30224861	3	1.48E-01	0.208698694
WBGene00004739	0.54791682	37	3.89E-08	0.272104777
WBGene00007634	-0.31927693	1	1.34E+00	-0.007012493
WBGene00007636	-0.009910048	1	5.42E-01	-0.003435906
WBGene00007635	-0.015969462	36	1.37E+01	0.153880853
WBGene00011989	0.170760788	13	1.30E-01	-0.174116143
WBGene00011991	-0.12886147	8	2.95E+00	0.064028404
WBGene00011990	-0.129193493	14	9.42E+00	0.091118028
WBGene00011992	-0.017128099	1	5.53E-01	0.018783392
WBGene00011993	-0.004254015	6	8.00E-01	-0.071906347
WBGene00044149	-0.6068159	15	1.80E+04	-0.785545638
WBGene00219278	-0.59827836	11	1.37E+03	-0.815164288
WBGene00011152	-0.115766869	18	1.60E+01	-0.043269784
WBGene00011153	0.151504204	22	1.01E-01	0.039449964
WBGene00006493	0.421942947	26	8.66E-05	0.22437398
WBGene00000755	-0.066664822	5	1.11E+00	0.139430384
WBGene00011154	0.445610767	10	8.01E-03	0.572914593
WBGene00010423	-0.410988515	5	1.04E+01	-0.344259489
WBGene00007259	0.111748484	4	3.55E-01	0.083009918
WBGene00045386	0.362696268	5	6.81E-02	1
WBGene00003616	2	10	4.61E-10	2
WBGene00000082	0.187013207	30	2.28E-02	0.200779042
WBGene00011564	0.558728239	12	9.99E-04	0.681278056
WBGene00011568	-0.162859963	12	9.84E+00	0.011793267
WBGene00011566	-0.134161809	5	1.72E+00	0.001674357
WBGene00011565	-0.002516565	6	7.90E-01	-0.263581566
WBGene00008901	-0.029918617	273	1.18E+12	0.00169793
WBGene00004345	0.211988251	33	7.93E-03	0.193946151
WBGene00004006	-0.169103215	16	2.66E+01	0.115797078
WBGene00004007	-0.212095816	16	5.36E+01	-0.188836123
WBGene00004008	-0.631313875	26	3.04E+07	-0.72787215
WBGene00009057	-0.018238751	11	1.42E+00	-0.109076211
WBGene00011937	-0.149560437	11	6.72E+00	-0.117792655
WBGene00011938	-0.239841639	18	1.51E+02	-0.222454626

WBGene00006175	-0.603431991	4	1.95E+01	-0.042482472
WBGene00006174	-0.321467666	5	5.79E+00	-0.167268466
WBGene00000016	-0.78371071	5	1.16E+02	-0.522320438
WBGene00000017	-0.030726932	4	7.89E-01	-0.128464367
WBGene00001560	0.298300163	52	1.45E-05	0.316232624
WBGene00008260	3	7	8.42E-11	3
WBGene00008261	0.832598387	2	2.37E-02	0.903148641
WBGene00000482	1	29	7.84E-18	1
WBGene00011770	1	6	1.86E-05	1
WBGene00011771	0.807961109	27	2.67E-09	0.84183605
WBGene00011772	0.934566612	9	8.05E-05	0.733564841
WBGene00001149	0.27819682	11	4.23E-02	-0.169211042
WBGene00001681	0.250588317	10	6.79E-02	0.092360455
WBGene00004108	0.580667292	36	1.92E-08	0.328570904
WBGene00007933	-0.050392314	5	9.96E-01	0.010841926
WBGene00007934	-0.050317084	14	2.99E+00	0.318030338
WBGene00007344	0.3074849	3	1.45E-01	0.133816735
WBGene00007343	2	5	3.72E-06	2
WBGene00007345	-0.036729086	2	6.54E-01	-0.024287186
WBGene00007346	0.391478661	13	6.41E-03	0.257088563
WBGene00004089	0.73002369	26	3.63E-08	0.718759366
WBGene00195214	0.670049126	4	1.56E-02	0.622482777
WBGene00195213	0.704963638	2	3.86E-02	0.771411643
WBGene00008693	0.490208598	4	4.26E-02	0.03984415
WBGene00008692	-0.011382495	12	1.43E+00	-0.045941217
WBGene00008691	0.025126709	1	4.89E-01	-0.011337987
WBGene00008690	0.153223925	9	2.09E-01	0.381416791
WBGene00045495	0.453267777	7	1.97E-02	0.773471898
WBGene00008694	0.226789094	22	1.97E-02	0.23717421
WBGene00003623	-0.123723993	22	3.91E+01	0.346629657
WBGene00008278	0.061130021	13	5.80E-01	0.774346875
WBGene00008279	0.794087596	11	9.36E-05	1
WBGene00010519	0.493999324	9	6.78E-03	0.95065169
WBGene00045497	-0.352753183	5	7.09E+00	-0.073867531
WBGene00010522	0.279680312	6	9.83E-02	0.147747364
WBGene00010520	0.372035378	4	8.27E-02	0.623929736
WBGene00000450	-0.018521764	7	9.77E-01	-0.306918677
WBGene00010521	-0.202338531	12	1.63E+01	0.052430295
WBGene00006078	-0.114334947	6	1.80E+00	0.06321704
WBGene00010996	-0.342905929	10	4.53E+01	-0.093480433
WBGene00010998	-0.308043458	12	6.26E+01	-0.279878975
WBGene00011000	-0.139808491	12	7.33E+00	0.047407146
WBGene00010999	-0.237862106	12	2.56E+01	0.114110018
WBGene00008925	0.192979506	8	1.54E-01	0.134678636
WBGene00008926	0.585033339	10	1.74E-03	0.650475955
WBGene00008927	0.303514111	15	1.45E-02	0.566072079
WBGene00008928	0.252371172	3	1.87E-01	0.130729715

WBGene00008598	-0.386984831	11	1.12E+02	-0.089999929
WBGene00008599	0.014062009	12	1.03E+00	0.035402301
WBGene00045245	0.508291358	3	5.61E-02	-0.19289689
WBGene00008600	0.215071348	20	3.19E-02	0.109144223
WBGene00008601	0.134257262	36	8.08E-02	0.29267095
WBGene00003741	0.612534368	5	1.34E-02	0.086250554
WBGene00009844	0.014149142	22	1.97E+00	-0.075532205
WBGene00001668	0.323133734	10	3.07E-02	-0.193054251
WBGene00006749	0.72905507	12	1.14E-04	0.770965637
WBGene00011255	0.193777612	4	2.24E-01	0.801053519
WBGene00000217	0.068406652	13	5.25E-01	-0.478120759
WBGene00004826	0.234357277	4	1.79E-01	-0.040128333
WBGene00004825	0.04085973	5	5.50E-01	0.382229966
WBGene00004827	0.34259131	6	6.18E-02	1
WBGene00010694	-0.060902841	4	9.34E-01	0
WBGene00010689	-0.179559121	4	1.82E+00	-0.004629553
WBGene00010690	-0.049350578	5	9.89E-01	0.604771372
WBGene00010691	-0.408679944	4	6.55E+00	0.274482636
WBGene00010692	-0.092344998	5	1.31E+00	0.310690531
WBGene00001995	0.020953387	2	5.25E-01	0.111011945
WBGene00010693	-0.019573501	3	6.74E-01	0.037841184
WBGene00003626	0.212066827	11	9.26E-02	0.463249144
WBGene00164968	1	12	4.85E-07	1
WBGene00010704	2	8	9.86E-08	1
WBGene00010705	2	8	1.40E-07	1
WBGene00010706	-0.130558478	8	3.00E+00	-0.039971528
WBGene00010707	0.161903504	5	2.51E-01	0.047285087
WBGene00010708	0.05595127	12	6.05E-01	0.248458369
WBGene00011009	0.217145907	2	2.48E-01	0.424533516
WBGene00011010	1	6	2.83E-04	0.99915014
WBGene00011012	0.072231247	4	4.43E-01	0.481320255
WBGene00011011	0.420613334	7	2.58E-02	0.644038581
WBGene00005116	0.009577512	1	5.12E-01	0.004710427
WBGene00005114	0.135699615	4	3.11E-01	-0.017442202
WBGene00005117	-0.088815924	3	9.34E-01	0.581054806
WBGene00005120	0.26244739	6	1.12E-01	0.758227963
WBGene00005121	0.582042253	7	6.77E-03	0.596102536
WBGene00011013	2	5	1.15E-06	2
WBGene00009796	0.398503972	2	1.24E-01	0.470875649
WBGene00009797	0.161929472	21	8.58E-02	0.43499476
WBGene00004801	0.165821995	5	2.45E-01	0.073709181
WBGene00004802	-0.019545128	4	7.41E-01	0.049401532
WBGene00009798	0.009758587	1	5.12E-01	0.026775955
WBGene00004238	0.00089415	21	2.43E+00	0.136852843
WBGene00003511	0.054955952	7	5.32E-01	-0.007929623
WBGene00008213	0.013714802	10	9.10E-01	0.142550034
WBGene00008214	0.170159181	15	1.13E-01	0.455078017

WBGene00303047	0.309947135	2	1.74E-01	0.741690387
WBGene00008215	0.040901721	6	5.73E-01	0.338180639
WBGene00008518	-0.001901322	10	1.08E+00	-0.192832085
WBGene00008517	0.482235262	6	2.20E-02	0.528127911
WBGene00008516	0.477358856	4	4.58E-02	0.334662568
WBGene00008515	-0.306958044	10	3.05E+01	-0.164596136
WBGene00008519	0.055251361	4	4.87E-01	0.106438714
WBGene00007810	1	13	3.60E-09	2
WBGene00007811	0.467940564	4	4.83E-02	0.393624026
WBGene00007812	0.365139689	4	8.59E-02	0.506395769
WBGene00001435	0.249297192	5	1.42E-01	0.89450961
WBGene00001436	-0.062525281	5	1.08E+00	0.111609875
WBGene00206389	-0.091314959	7	1.78E+00	0.430384895
WBGene00007813	0.634510475	23	1.76E-06	0.701664616
WBGene00008527	0.768265586	11	1.27E-04	1
WBGene00008526	0.80152985	7	1.10E-03	0.688140552
WBGene00001465	0.36555867	12	1.17E-02	0.814847786
WBGene00008524	-0.09811413	13	5.08E+00	-0.015188565
WBGene00008523	0	1	5.26E-01	-0.003570496
WBGene00000756	0.172427554	5	2.34E-01	0.384937679
WBGene00000757	-0.068427783	2	7.39E-01	0.08783366
WBGene00006610	-0.430195647	12	2.97E+02	0.019257147
WBGene00001164	-0.112763675	4	1.25E+00	-0.1146826
WBGene00005128	-0.096470007	10	3.04E+00	0.321002897
WBGene00005129	-0.298353942	4	3.53E+00	0.393826503
WBGene00004719	0.586712115	30	2.27E-07	0.655272765
WBGene00010368	0.232476645	7	1.22E-01	0.259896276
WBGene00000758	1	4	2.11E-03	0.605913518
WBGene00000406	-0.081706405	11	3.01E+00	0.55814422
WBGene00008939	0.136808086	3	3.23E-01	0.336452119
WBGene00003903	0.537186825	12	1.31E-03	0.297262004
WBGene00008940	0.544254456	18	1.04E-04	-0.176060762
WBGene00000051	0.530652423	8	6.97E-03	0.727390625
WBGene00010969	0.010183808	2	5.47E-01	0.164932652
WBGene00000282	1	9	6.04E-06	0.602498437
WBGene00003848	-0.043783002	19	4.88E+00	0.223663268
WBGene00010970	0.319482725	15	1.13E-02	0.018954771
WBGene00010968	0.028749438	1	4.84E-01	-0.060217189
WBGene00010971	0.302660703	9	4.65E-02	0.092749866
WBGene00010034	-0.099275	9	2.66E+00	0.152032199
WBGene00010033	0.299310768	1	2.19E-01	0.300007578
WBGene00006816	-0.015554468	18	2.60E+00	0.195719981
WBGene00000598	0.273845319	3	1.69E-01	-0.040023902
WBGene00000621	-0.009963074	2	5.91E-01	0.042793251
WBGene00010027	-0.170462034	4	1.73E+00	0.241525126
WBGene00010028	0.014954994	9	8.42E-01	0.069242667
WBGene00000262	0.046772135	6	5.49E-01	0.192066807

WBGene00010030	-0.270459396	4	3.02E+00	0.345995664
WBGene00010031	-0.039232061	4	8.27E-01	-0.028909028
WBGene00010032	0.319657882	7	5.94E-02	0.345944363
WBGene00012440	0.831946815	6	1.66E-03	1
WBGene00012439	-0.097260683	4	1.15E+00	0.164399697
WBGene00006412	0.847755704	18	4.27E-07	0.929790298
WBGene00006673	0.24636988	11	6.17E-02	-0.035923084
WBGene00000048	-0.112145096	13	6.16E+00	-0.007036247
WBGene00008036	-0.222647623	2	1.33E+00	0.39912925
WBGene00008037	0.097065246	2	3.93E-01	0.514411248
WBGene00007285	0.015506609	2	5.36E-01	0.005756568
WBGene00007288	2	3	3.54E-04	2
WBGene00007286	2	10	4.23E-09	2
WBGene00007287	0.105313915	17	2.97E-01	0.248390161
WBGene00000074	0.246621944	27	6.27E-03	0.347363014
WBGene00010504	0.270688431	4	1.46E-01	1
WBGene00010505	0.319747117	12	2.10E-02	0.61435274
WBGene00010773	2	8	9.24E-08	1
WBGene00010774	0.981080581	4	2.73E-03	0.997150931
WBGene00010775	0.159365032	4	2.72E-01	0.152667955
WBGene00077679	0.507427745	5	2.66E-02	0.581537736
WBGene00010776	2	26	1.10E-20	2
WBGene00003661	0.805516251	19	4.82E-07	0.670753348
WBGene00010115	0.15620129	14	1.49E-01	0.274909201
WBGene00010116	0.249129279	8	9.22E-02	0.1266212
WBGene00010117	0.416775894	12	6.10E-03	0.600731692
WBGene00010118	-0.050102402	12	2.34E+00	-0.122874728
WBGene00014217	0.179714919	5	2.23E-01	0.282371193
WBGene00014216	0.022220943	3	5.54E-01	0.008219751
WBGene00014215	0.41104924	41	1.48E-06	0.416097697
WBGene00006676	-0.034275231	19	4.07E+00	0.039734088
WBGene00008955	-0.068071622	4	9.72E-01	0.024501518
WBGene00010833	0.22180641	6	1.51E-01	-0.014702547
WBGene00010837	-0.062648304	2	7.22E-01	0.42087972
WBGene00010834	0.156858129	17	1.22E-01	0.092247829
WBGene00010836	-0.130006606	5	1.67E+00	-0.07569011
WBGene00010835	-0.056432199	8	1.52E+00	-0.190470504
WBGene00011904	-0.003161089	40	1.22E+01	-0.163832766
WBGene00005063	-0.176627939	6	2.86E+00	-0.225208243
WBGene00005064	-0.152680119	6	2.40E+00	-0.202645438
WBGene00005065	-0.376460077	9	4.33E+01	-0.136451125
WBGene00012514	-0.388373736	4	5.85E+00	-0.121321578
WBGene00012513	-0.311069306	11	4.56E+01	0.001528943
WBGene00012512	1	11	3.04E-06	0.492437822
WBGene00010493	-0.256137686	16	1.10E+02	-0.044509107
WBGene00010492	-0.098195156	10	3.10E+00	-0.664332055
WBGene00010494	-0.255653031	5	3.78E+00	-0.405264685

WBGene00001251	-0.154309626	17	2.59E+01	-0.085221286
WBGene00000105	0.745019075	18	2.74E-06	0.680599113
WBGene00006372	-0.188990092	10	8.39E+00	-0.326530142
WBGene00009849	-0.005530325	4	6.85E-01	0.278160729
WBGene00004126	0.043761106	4	5.20E-01	0.115660613
WBGene00009850	0.498786574	2	8.48E-02	0.476049711
WBGene00009851	-0.11249237	4	1.25E+00	0.338817007
WBGene00009852	-0.368437113	6	1.18E+01	-0.146520976
WBGene00009853	0.010226888	4	6.27E-01	-0.012566983
WBGene00007842	-0.211332228	3	1.66E+00	-0.007079325
WBGene00007844	-0.036898702	3	7.31E-01	-0.107012179
WBGene00007845	-0.340690836	3	3.06E+00	-0.123448892
WBGene00007846	0.045140736	13	7.21E-01	0.055943522
WBGene00007847	0.075174483	10	4.64E-01	-0.052445824
WBGene00007848	0.375310586	6	4.85E-02	-0.042385521
WBGene00007849	-0.022163051	26	6.39E+00	0.137661965
WBGene00284855	0.817065459	1	4.83E-02	0.85641548
WBGene00007295	-0.061473712	3	8.21E-01	0.199531022
WBGene00007296	0.068875548	12	5.13E-01	0.209337436
WBGene00001116	0.608806208	45	1.11E-10	0.228537444
WBGene00007903	0.840725998	13	1.40E-05	0.617804334
WBGene00007904	-0.437841927	16	2.13E+03	-0.015979073
WBGene00007905	-0.153209142	8	3.69E+00	0.153864675
WBGene00007906	0.222267318	17	3.97E-02	0.297235668
WBGene00008879	-0.087649737	15	6.02E+00	0.213456824
WBGene00001106	-0.149788618	14	1.27E+01	0.028494566
WBGene00008880	-0.029863073	10	1.47E+00	-0.047175308
WBGene00008881	0.757560806	9	4.78E-04	-0.026267945
WBGene00008882	0.711572829	26	5.79E-08	0.634142586
WBGene00008883	0.011429516	3	5.82E-01	0.047227431
WBGene00008884	0.720334072	8	1.22E-03	0.72643699
WBGene00009235	0.171893079	2	2.95E-01	0.133976447
WBGene00009234	0.347842065	25	7.10E-04	0.531747866
WBGene00009233	0.95415331	23	1.30E-09	1
WBGene00044137	0.051234421	2	4.68E-01	0.042576413
WBGene00009232	1	6	2.59E-04	1
WBGene00009231	0.182752268	8	1.69E-01	0.260252728
WBGene00000103	-0.092631767	5	1.31E+00	0.275163853
WBGene00010995	0.430412808	5	4.39E-02	0.382827485
WBGene00010994	0.160327862	7	2.22E-01	0.192884701
WBGene00010993	0.782062727	5	4.47E-03	0.698193808
WBGene00006369	0.681981319	16	2.48E-05	0.574647381
WBGene00007993	0.217229863	7	1.39E-01	0.409617596
WBGene00007994	0.193549286	8	1.53E-01	0.279881858
WBGene00304175	-0.183166442	2	1.14E+00	-0.293657278
WBGene00007995	0.024021468	3	5.49E-01	0.008696879
WBGene00000457	-0.089526786	6	1.50E+00	0.363710019

WBGene00000458	-0.076885321	21	1.23E+01	0.001550367
WBGene00010605	-0.032755187	7	1.10E+00	0.055147029
WBGene00010607	0	5	7.18E-01	-0.041287946
WBGene00010606	0.591271385	7	6.27E-03	1
WBGene00005193	0.027559467	4	5.69E-01	0.547658919
WBGene00005194	0.280058945	4	1.38E-01	0.226163602
WBGene00010552	0.53001958	9	4.72E-03	0.982935329
WBGene00010553	0.126381608	3	3.39E-01	0.218876567
WBGene00010554	0.647507769	2	4.81E-02	1
WBGene00010555	-0.078891237	4	1.03E+00	0.108719925
WBGene00008464	-0.02670618	6	9.45E-01	0.156233867
WBGene00008463	-0.27277786	4	3.06E+00	-0.136126317
WBGene00077757	-0.08717592	5	1.26E+00	-0.186007118
WBGene00008462	-0.379670701	18	1.90E+03	-0.554922865
WBGene00194907	-0.028172386	2	6.33E-01	-0.018302533
WBGene00000952	-0.004453348	13	1.42E+00	0.011103665
WBGene00008460	-0.075786231	8	1.81E+00	0.110511606
WBGene00006517	0.547966078	40	1.13E-08	0.146264488
WBGene00007530	0.184952073	15	8.99E-02	0.106510772
WBGene00007528	-0.03684286	10	1.58E+00	-0.118356313
WBGene00007529	0.17351532	12	1.35E-01	0.389709789
WBGene00004191	0.128339163	29	1.28E-01	-0.050680972
WBGene00023500	0.00962757	4	6.29E-01	-0.07782074
WBGene00007531	0.139584818	10	2.29E-01	0.336300361
WBGene00004764	0.110153996	17	2.73E-01	0.082659782
WBGene00010570	0.030632153	2	5.06E-01	0.029799177
WBGene00010571	-0.053023871	4	8.94E-01	0.035668856
WBGene00010572	0.125526095	13	2.41E-01	-0.187651808
WBGene00002151	0.024298204	23	1.67E+00	0.119210245
WBGene00013371	0.046024088	4	5.13E-01	0.36406554
WBGene00013370	-0.028053254	6	9.54E-01	-0.031120546
WBGene00013368	0.212217054	10	1.03E-01	-0.043415661
WBGene00011765	-0.021802592	12	1.63E+00	-0.08026105
WBGene00045292	0.157957384	5	2.57E-01	0.04143173
WBGene00045291	-0.122834361	7	2.32E+00	0.222133155
WBGene00009086	-0.183977666	12	1.29E+01	-0.115908284
WBGene00009090	-0.304558377	2	1.82E+00	-0.259504503
WBGene00194674	-0.010773182	2	5.93E-01	-0.032804606
WBGene00009085	-0.055532249	5	1.03E+00	-0.071769263
WBGene00044136	-0.093830598	3	9.56E-01	-0.000280432
WBGene00009087	0.195491647	4	2.22E-01	-0.337630041
WBGene00009088	0.555516812	6	1.28E-02	0.025268463
WBGene00009089	0.300400774	26	1.86E-03	0.091936922
WBGene00009091	0.515806861	2	7.95E-02	1
WBGene00044156	1	3	1.61E-03	1
WBGene00044157	0.044467028	6	5.58E-01	-0.231174557
WBGene00010938	-0.042138961	2	6.68E-01	0.005207402

WBGene00010939	-0.004505334	2	5.79E-01	-0.043551307
WBGene00304195	-0.093521297	4	1.12E+00	-0.100352193
WBGene00304194	0.034222198	4	5.48E-01	0.17018505
WBGene00044145	-0.02387603	1	5.64E-01	0
WBGene00044146	0	1	5.26E-01	0.020609266
WBGene00010937	0.100086148	9	3.57E-01	0.663279871
WBGene00044147	0.203319798	2	2.62E-01	0.550482535
WBGene00001583	0.06400515	10	5.24E-01	0.321425251
WBGene00010940	0.055049261	4	4.88E-01	0.057473157
WBGene00001898	0.80599683	6	2.01E-03	-0.781747748
WBGene00010936	-0.239542533	14	4.68E+01	-0.410202276
WBGene00010935	0.396026295	7	3.16E-02	-0.224288177
WBGene00008355	0.14769085	7	2.47E-01	-0.313283317
WBGene00008354	0.104444389	2	3.82E-01	0.06993796
WBGene00044134	0.06562568	4	4.60E-01	0.059381885
WBGene00008353	0.157195708	8	2.14E-01	0.428969857
WBGene00008357	-0.515784486	2	4.07E+00	0.004734089
WBGene00008359	-0.1378158	2	9.62E-01	0.07768921
WBGene00008358	-0.706263258	2	8.42E+00	-0.315939517
WBGene00008360	-0.192837383	2	1.19E+00	-0.311161421
WBGene00008356	-0.797920675	3	2.63E+01	-0.925930036
WBGene00011984	-0.109442884	6	1.74E+00	0.082250575
WBGene00011983	0.020300236	2	5.26E-01	0.009064445
WBGene00011982	0.000660441	6	7.72E-01	-0.080591446
WBGene00011981	-0.087573417	3	9.28E-01	0.265039721
WBGene00004301	0.074614911	17	5.04E-01	0.014194132
WBGene00003602	0.113291221	30	1.91E-01	-0.870229181
WBGene00008094	-0.070358781	51	7.20E+02	0.065845302
WBGene00008093	-0.015002169	9	1.14E+00	0.139291155
WBGene00002282	-0.102812688	8	2.33E+00	0.128437863
WBGene00006366	0.092536496	9	3.86E-01	0.075852662
WBGene00006524	0.208185036	10	1.08E-01	0.697105125
WBGene00008096	0.812381118	3	1.34E-02	0.168264885
WBGene00008095	0.020348528	9	7.97E-01	-0.035487824
WBGene00001325	-0.009446111	15	1.80E+00	0.054904703
WBGene00004313	0.188178697	67	7.74E-04	0.077188561
WBGene00010058	-0.319932815	12	7.28E+01	-0.408954614
WBGene00010059	0.421690046	13	4.25E-03	0.553351588
WBGene00010060	-0.130570142	6	2.03E+00	0.356313212
WBGene00007750	0.588990966	33	5.54E-08	-0.055338413
WBGene00007751	-0.261742007	17	1.64E+02	-0.066489478
WBGene00004854	0.482905536	21	1.09E-04	0.400304175
WBGene00000822	0.072558074	24	5.71E-01	-0.384923109
WBGene00004950	0.250535253	4	1.63E-01	0.109904924
WBGene00001828	-0.802419931	13	7.53E+04	-0.439682989
WBGene00009573	-0.053999773	5	1.02E+00	-0.080590779
WBGene00009574	0.299938179	9	4.78E-02	0.704265963

WBGene00006432	0.008702369	18	1.68E+00	0.030983009
WBGene00009357	0.115064595	4	3.49E-01	0.175495172
WBGene00006634	0.504765991	7	1.28E-02	0.348354831
WBGene00009358	0.16800429	3	2.79E-01	0.104767688
WBGene00007347	0.021353179	15	1.12E+00	0.066283935
WBGene00050939	0.172250378	4	2.53E-01	-0.301185703
WBGene00007348	0.234134717	6	1.38E-01	0.288822267
WBGene00007349	0.135975039	3	3.24E-01	0.769701853
WBGene00007350	0.334425348	13	1.40E-02	0.083853539
WBGene00007351	-0.001590823	11	1.16E+00	0.210419128
WBGene00012445	-0.709036805	47	6.53E+14	-0.778574351
WBGene00006743	-0.019922623	23	4.54E+00	0.172805832
WBGene00009628	-0.085445257	10	2.70E+00	-0.718663758
WBGene00009629	0.266496833	25	5.14E-03	0.219031891
WBGene00044139	0.076529735	1	4.21E-01	0.103282266
WBGene00000221	0.337251162	8	4.11E-02	0.688140084
WBGene00303075	0.238599305	1	2.62E-01	0.677756979
WBGene00011426	0.104429959	3	3.76E-01	-0.0081753
WBGene00001329	0.109345685	12	3.07E-01	-0.255433103
WBGene00003149	0.220486906	16	4.61E-02	-0.136005749
WBGene00001055	-0.066622507	18	6.56E+00	-0.146887321
WBGene00007772	0.241664941	9	8.60E-02	0.653439681
WBGene00007775	-0.340944092	11	6.49E+01	0.319192617
WBGene00007771	-0.102252248	5	1.39E+00	-0.044857431
WBGene00007774	-0.331713745	10	4.01E+01	0.039835325
WBGene00007776	-0.05605932	6	1.17E+00	-0.135636742
WBGene00007773	-0.429881552	8	4.67E+01	-0.226261366
WBGene00009300	-0.855197774	4	7.99E+01	-0.293407903
WBGene00009301	-0.036139435	2	6.53E-01	-0.153767083
WBGene00009302	-0.571740127	5	2.94E+01	-0.468496998
WBGene00044138	0.012387635	7	7.56E-01	0.005617034
WBGene00001451	-0.252066099	4	2.73E+00	-0.405809898
WBGene00000902	-0.039646547	18	4.03E+00	-0.094809784
WBGene00003517	-0.136318135	7	2.59E+00	-0.119285713
WBGene00009303	-0.29352372	6	6.78E+00	-0.142010748
WBGene00013497	-0.554604375	10	4.61E+02	-0.589395521
WBGene00013496	0.321159124	19	4.77E-03	0.419507517
WBGene00008808	-0.053664981	8	1.48E+00	0.065915317
WBGene00003411	0.032667808	15	9.41E-01	0.021774481
WBGene00003909	0.049938196	5	5.19E-01	0.069307099
WBGene00009720	-0.000644249	4	6.67E-01	-0.013364008
WBGene00004353	-0.231277339	5	3.22E+00	-0.142935571
WBGene00004354	-0.434630825	6	1.92E+01	-0.327225893
WBGene00008973	0.058801541	6	5.02E-01	-0.035144268
WBGene00008974	0.077250502	14	4.69E-01	0.078602436
WBGene00008975	1	12	9.23E-08	1
WBGene00008980	0.256839331	3	1.83E-01	-0.027681692

WBGene00008976	-0.209621757	6	3.65E+00	-0.384726713
WBGene00004317	-0.335537839	10	4.18E+01	-0.171694214
WBGene00008977	0.290296324	9	5.27E-02	0.101253496
WBGene00008978	-0.259560684	14	6.26E+01	-0.045454745
WBGene00008979	-0.230924085	11	1.76E+01	0.065257495
WBGene00007668	-0.068293818	8	1.69E+00	-0.060690294
WBGene00007663	0.358586509	1	1.85E-01	0.662600169
WBGene00007664	0.360190715	12	1.25E-02	0.535429843
WBGene00001096	0.089330458	14	3.94E-01	-0.276664166
WBGene00007666	-0.009329172	16	1.96E+00	-0.033973241
WBGene00044141	0.001553494	3	6.10E-01	-0.00404264
WBGene00010358	-0.004999485	3	6.29E-01	0.145305076
WBGene00010361	-0.201809001	6	3.44E+00	0.629590907
WBGene00010360	-0.092457528	6	1.54E+00	-0.081992289
WBGene00010359	-0.201721935	7	4.45E+00	-0.115012851
WBGene00010434	-0.106306093	23	3.19E+01	-0.194659844
WBGene00014793	0	1	5.26E-01	-0.016463223
WBGene00303024	0	1	5.26E-01	-0.016463223
WBGene00303066	0	1	5.26E-01	-0.016463223
WBGene00010433	0.159596008	14	1.42E-01	0.134156992
WBGene00008609	-0.197076241	10	9.16E+00	-0.100385209
WBGene00001468	-0.36728423	15	4.49E+02	-0.165408266
WBGene00195212	-0.596003608	7	1.16E+02	-0.454487764
WBGene00008607	-1	12	5.86E+05	-0.634509938
WBGene00008606	0.046742511	4	5.11E-01	0.179718774
WBGene00008605	-0.354419105	14	2.48E+02	-0.239377286
WBGene00011101	0.157745086	22	8.78E-02	0.017104086
WBGene00006747	0.486550227	54	7.77E-10	0.432295194
WBGene00007525	-0.015348184	2	6.03E-01	-0.008989847
WBGene00011684	-0.248226466	17	1.30E+02	-0.035894929
WBGene00011685	-0.013829726	3	6.56E-01	-0.124038476
WBGene00003840	-0.185894088	10	8.11E+00	-0.02140204
WBGene00011679	-0.005028715	10	1.12E+00	0.300823741
WBGene00000618	-0.227801693	4	2.38E+00	0.679388334
WBGene00011680	0.564561115	11	1.42E-03	0.566453492
WBGene00011681	0.724176118	13	6.87E-05	0.525297754
WBGene00011683	0.463421832	9	9.23E-03	-0.028850451
WBGene00011682	0.773377655	17	3.03E-06	0.817662011
WBGene00010356	0.146134866	18	1.40E-01	0.03457604
WBGene00303065	-0.049719715	1	6.09E-01	-0.258652044
WBGene00010357	0.324712615	23	1.91E-03	0.277937472
WBGene00009552	2	36	5.18E-26	2
WBGene00009788	-0.759642845	7	4.51E+02	-0.933107408
WBGene00009787	-0.024659111	3	6.90E-01	-0.137337392
WBGene00009789	-0.228499505	13	3.01E+01	-0.041822087
WBGene00002203	0.097644695	37	2.79E-01	-0.26384739
WBGene00007262	-0.118829995	7	2.24E+00	0.055397175

WBGene00004777	0.770311665	38	8.69E-12	0.632799267
WBGene00003681	-0.104254431	12	4.66E+00	-0.296350786
WBGene00012441	-0.403676301	12	2.12E+02	-0.318421073
WBGene00012442	-0.337173715	15	2.82E+02	0.100825452
WBGene00012443	0.79442814	13	2.64E-05	0.001873629
WBGene00012444	0.618767684	5	1.29E-02	0.082587795
WBGene00007877	0.473575255	32	2.96E-06	0.171227224
WBGene00007878	-0.158921422	17	2.80E+01	-0.193554884
WBGene00006462	0.366592747	24	5.77E-04	0.309402083
WBGene00009560	-0.43084427	36	1.96E+07	-0.516132929
WBGene00004123	-0.66263231	28	2.56E+08	-0.718152761
WBGene00009561	-0.256147931	13	4.39E+01	-0.221900899
WBGene00003532	-0.258746223	14	6.19E+01	-0.241023887
WBGene00010981	-0.183468686	3	1.46E+00	0.222556909
WBGene00010982	-0.04665012	5	9.72E-01	0.023431699
WBGene00010983	0.111137271	14	2.87E-01	0.088766667
WBGene00010984	-0.059960933	8	1.57E+00	-0.09545242
WBGene00010985	-0.07489155	5	1.17E+00	-0.004035087
WBGene00010986	-0.074641868	46	4.30E+02	-0.20970723
WBGene00001362	-0.049773526	17	4.28E+00	-0.087809386
WBGene00001556	-0.136621418	18	2.33E+01	-0.264656159
WBGene00010396	0.058788236	9	5.42E-01	0.071973503
WBGene00001649	-0.051692612	11	2.11E+00	-0.011484229
WBGene00010397	-0.31973267	14	1.50E+02	-0.174454018
WBGene00006541	-0.146008862	15	1.48E+01	0.121407885
WBGene00044142	-0.050693431	6	1.13E+00	0.204911272
WBGene00006494	-0.445960854	9	8.71E+01	-0.18491476
WBGene00001148	-0.547707125	20	1.23E+05	-0.442201619
WBGene00007260	-0.166111352	33	1.18E+03	-0.061455703
WBGene00303034	0.32982751	1	2.01E-01	0.122882057
WBGene00007261	0.298296776	17	1.07E-02	0.264984609
WBGene00001130	0.507869412	23	3.06E-05	0.276943062
WBGene00010703	0.024734649	38	3.81E+00	-0.098338759
WBGene00001520	0.449904913	12	4.00E-03	0.406064291
WBGene00010702	0.174129932	14	1.15E-01	0.267209899
WBGene00194849	-0.987420843	4	1.68E+02	-0.402050842
WBGene00010701	-0.600052608	14	8.81E+03	-0.313142708
WBGene00004276	0.350844217	6	5.81E-02	0.100440186
WBGene00010700	0.667990257	13	1.48E-04	0.466183117
WBGene00010726	0.088199229	5	4.05E-01	0.218217446
WBGene00010725	0.432778102	5	4.32E-02	0.553053132
WBGene00010724	-0.002915658	15	1.63E+00	0.135104032
WBGene00044143	-0.100090549	6	1.62E+00	0.256995835
WBGene00194664	-0.067163358	5	1.11E+00	0.282690494
WBGene00010372	-0.304439655	6	7.35E+00	0.183906389
WBGene00010332	0.002959934	5	7.04E-01	0.169474359
WBGene00010331	-0.366115618	12	1.31E+02	-0.092724083

WBGene00010329	0.305365545	13	2.07E-02	0.280041821
WBGene00010330	0	3	6.15E-01	0.002360746
WBGene00001687	-0.2562405	16	1.10E+02	-0.115690209
WBGene00007284	-0.160529972	18	3.59E+01	0.006259741
WBGene00014039	-1	6	2.88E+04	-1
WBGene00003638	0.069587255	24	6.12E-01	-0.142335799
WBGene00045494	-0.068688501	4	9.76E-01	0.02208667
WBGene00014040	-0.276800873	13	5.81E+01	-0.220612936
WBGene00023497	0.345921818	19	2.98E-03	0.255859273
WBGene00023498	0.335477442	15	8.83E-03	0.445802163
WBGene00005221	0.551113573	12	1.10E-03	0.708343236
WBGene00014068	1	7	7.55E-05	2
WBGene00014070	-0.060530627	11	2.34E+00	-0.085112175
WBGene00014069	0.0800885	6	4.29E-01	-0.557546362
WBGene00006950	-0.072719731	16	5.51E+00	0.081354555
WBGene00044630	-0.180436243	21	1.05E+02	-0.16335026
WBGene00012407	0.407675152	13	5.14E-03	0.577933139
WBGene00012408	1	4	3.30E-04	1
WBGene00195210	0.423090293	2	1.13E-01	0.762728336
WBGene00012409	0.037838085	10	6.99E-01	-0.031275319
WBGene00012411	-0.036267545	2	6.53E-01	0.395808846
WBGene00044154	0	2	5.69E-01	-0.020127441
WBGene00012412	0.062128455	6	4.90E-01	-0.066862584
WBGene00012413	-0.11180647	9	3.02E+00	-0.184978024
WBGene00012414	-0.217687799	2	1.31E+00	-0.113807033
WBGene00012415	-0.018446935	2	6.10E-01	-0.059650378
WBGene00219351	-0.187684588	6	3.10E+00	-0.637633429
WBGene00010336	-0.258481183	17	1.55E+02	-0.127672076
WBGene00010337	-0.48485284	4	1.00E+01	0.43224153
WBGene00010338	-0.018530995	16	2.28E+00	-0.128824549
WBGene00010339	-0.55755482	5	2.68E+01	-0.413491688
WBGene00010011	-0.304986402	26	8.05E+03	-0.286018865
WBGene00010007	-0.437298638	3	4.82E+00	0.138070265
WBGene00000803	0.295786018	31	8.23E-04	-0.081867299
WBGene00010009	-0.161495596	6	2.56E+00	-0.169845257
WBGene00010010	-0.356090219	19	1.84E+03	-0.381640295
WBGene00010008	-0.268919257	7	7.77E+00	-0.220334406
WBGene00009278	-0.181170969	11	9.78E+00	-0.032803942
WBGene00009281	-0.002619941	4	6.74E-01	-0.009434749
WBGene00009279	-0.05760895	9	1.75E+00	-0.266632725
WBGene00009280	-0.451039308	5	1.34E+01	-0.100845825
WBGene00008468	-0.002769127	2	5.75E-01	0.001489057
WBGene00003409	-0.030727886	23	5.79E+00	0.050243616
WBGene00003169	-0.02429114	18	3.05E+00	-0.050384914
WBGene00000759	0.032267842	5	5.82E-01	-0.075116573
WBGene00007487	-0.357207244	10	5.30E+01	-0.19382825
WBGene00004103	-0.085371006	16	6.78E+00	-0.271520502

WBGene00007484	-0.537436766	23	5.35E+05	-0.107756713
WBGene00007485	0	3	6.15E-01	-0.147838578
WBGene00007486	0.38455277	25	2.90E-04	0.216961109
WBGene00044150	-0.1494995	9	4.41E+00	-0.002266217
WBGene00003729	-0.385578381	11	1.10E+02	-0.425059824
WBGene00007174	-0.293207523	7	9.50E+00	-0.167223142
WBGene00007175	0.033435594	19	1.13E+00	-0.043770402
WBGene00012073	-0.090186022	11	3.33E+00	-0.057341534
WBGene00206527	0.045804326	2	4.78E-01	0.148659001
WBGene00012074	-0.803637609	5	1.33E+02	0.317407717
WBGene00012075	-0.04740242	7	1.24E+00	-0.081817978
WBGene00012077	-0.872975008	14	4.64E+05	-0.329078384
WBGene00012076	-0.494655642	5	1.78E+01	0.145802401
WBGene00000760	-0.002143705	2	5.73E-01	-0.17745151
WBGene00007818	0	3	6.15E-01	-0.335614834
WBGene00007816	-0.521040694	36	4.28E+08	-0.420811174
WBGene00007817	-0.296764775	10	2.73E+01	-0.326042837
WBGene00007819	0.19386896	4	2.24E-01	0.142609026
WBGene00014214	0.173860323	46	9.60E-03	0.194998386
WBGene00014213	0.327451768	11	2.36E-02	0.010451684
WBGene00008622	0.415096036	20	5.97E-04	0.314958603
WBGene00008621	-0.274275565	15	1.07E+02	-0.554919817
WBGene00011227	-0.096885933	6	1.59E+00	-0.397792504
WBGene00011226	-0.254459095	14	5.81E+01	-0.099550062
WBGene00011228	-0.48902154	11	3.75E+02	-0.349379399
WBGene00011229	0.506246216	4	3.90E-02	1
WBGene00009069	0.011180277	1	5.09E-01	0.006868966
WBGene00044638	0.011180277	1	5.09E-01	0.006868966
WBGene00009067	0.015927378	1	5.02E-01	0.012050206
WBGene00009068	0.329553643	8	4.41E-02	0.074629903
WBGene00009070	-0.314900819	34	1.82E+05	-0.16577507
WBGene00012378	0.031073381	2	5.05E-01	-0.044924786
WBGene00219300	0.099050466	8	3.65E-01	0.228336975
WBGene00004789	-0.05973083	15	3.91E+00	-0.024010394
WBGene00003485	-0.004738777	24	3.50E+00	0.186954429
WBGene00002051	0.846988205	16	1.68E-06	1
WBGene00004745	0.754490782	28	5.95E-09	0.946958114
WBGene00009933	0.871703343	2	2.04E-02	0.688357575
WBGene00009934	0.228334427	1	2.70E-01	0.433446795
WBGene00009935	0.292660852	13	2.47E-02	0.326127034
WBGene00006674	1	17	1.14E-10	0.697374316
WBGene00006675	-0.175726963	24	1.93E+02	0.060275913
WBGene00011310	-0.131270723	4	1.39E+00	-0.011118487
WBGene00007523	0.191914304	8	1.56E-01	0.171058805
WBGene00006384	-0.028373069	33	1.54E+01	0.2259716
WBGene00003624	0.165181361	13	1.40E-01	0.159063576
WBGene00000035	0.125469786	16	2.17E-01	0.051804832

WBGene00006353	3	8	8.59E-11	2
WBGene00002280	0.948113984	26	1.48E-10	0.109307269
WBGene00017170	0.113246748	10	3.06E-01	-0.003111435
WBGene00206382	0.125402173	2	3.53E-01	-0.129484185
WBGene00020770	-0.170234663	48	4.18E+04	-0.39834342
WBGene00018188	0.256860833	9	7.38E-02	0.644326102
WBGene00018187	0.482948963	12	2.62E-03	0.156921356
WBGene00018186	-0.366139616	3	3.45E+00	0.190629171
WBGene00003555	0.15346133	33	5.01E-02	0.299432106
WBGene00018184	0.14434435	20	1.30E-01	0.320505507
WBGene00000281	0.216335197	15	5.54E-02	0.139328542
WBGene00019423	-0.343172035	24	9.80E+03	-0.127917897
WBGene00019422	1	3	4.58E-03	1
WBGene00020795	-0.006414262	3	6.33E-01	0.176814642
WBGene00020794	0.112648826	14	2.81E-01	0.234560791
WBGene00020793	0.051048213	7	5.49E-01	-0.027197922
WBGene00003933	0.548434857	8	5.92E-03	0.179738615
WBGene00003883	0.611900551	33	2.69E-08	0.624787859
WBGene00019519	2	8	8.38E-08	1
WBGene00019518	0.600994546	9	2.31E-03	0.679108013
WBGene00004776	0.181795604	37	1.46E-02	0.004801349
WBGene00000401	0.514655966	25	1.22E-05	0.701625846
WBGene00045272	1	5	4.32E-05	1
WBGene00019102	1	16	8.64E-11	1
WBGene00015547	0.974446075	17	9.51E-08	0.314144944
WBGene00015546	-0.686541443	6	1.24E+02	-0.054200393
WBGene00015545	0.87944673	11	3.40E-05	1
WBGene00018373	0.265363345	71	3.46E-06	0.007767619
WBGene00018374	-0.032632581	26	8.33E+00	-0.053487678
WBGene00017727	-0.455390006	1	1.99E+00	-0.345307682
WBGene00017726	-0.145536665	3	1.22E+00	0.078282976
WBGene00255607	-0.145507452	6	2.27E+00	0.477733045
WBGene00017730	0.521210662	6	1.65E-02	0.544431452
WBGene00017725	0.270027793	6	1.06E-01	0.160551883
WBGene00020657	-0.022190694	18	2.94E+00	-0.003252192
WBGene00001837	0.210976554	38	4.70E-03	0.296172554
WBGene00015673	-0.069412619	7	1.49E+00	0.425106206
WBGene00015674	0.020388823	6	6.67E-01	0.12168593
WBGene00015675	-0.244363339	6	4.72E+00	-0.245618291
WBGene00015672	-0.307684491	12	6.23E+01	-0.22957877
WBGene00015676	-0.214960498	18	9.62E+01	-0.554751429
WBGene00020144	-0.0071126	4	6.91E-01	0.001140538
WBGene00020143	-1	4	5.40E+02	0.002622542
WBGene00020146	0.156798164	9	2.02E-01	-0.021099331
WBGene00020142	-0.011801645	17	2.23E+00	0.129812156
WBGene00003168	-0.128144993	11	5.22E+00	0.052821675
WBGene00000294	-0.124877127	19	2.28E+01	-0.044169912

WBGene00006067	-0.153566925	76	8.06E+06	-0.277584775
WBGene00018310	-1	18	2.06E+09	-1
WBGene00018307	0.032436648	4	5.54E-01	0.153565082
WBGene00018311	0.22854874	5	1.63E-01	-0.235351264
WBGene00020631	-0.421203659	7	2.74E+01	0.318357046
WBGene00020633	0.226231727	5	1.65E-01	0.350426419
WBGene00020630	0.208248859	16	5.63E-02	0.011083025
WBGene00020634	0.020839949	4	5.91E-01	0.079731425
WBGene00021188	-0.113335104	6	1.79E+00	-0.18651418
WBGene00018203	-0.186390277	6	3.07E+00	-0.493593673
WBGene00018202	-0.744525466	14	7.18E+04	-1
WBGene00018204	0.456166594	7	1.92E-02	0.686089171
WBGene00018205	-0.012893563	2	5.97E-01	-0.128792645
WBGene00016257	-0.067863886	4	9.71E-01	0.173814051
WBGene00016254	-0.799844037	6	2.85E+02	-0.097808666
WBGene00016253	0.003236149	2	5.62E-01	0.027584107
WBGene00016252	0.011905468	1	5.08E-01	0.033371781
WBGene00016251	0.096323664	2	3.94E-01	0.206001846
WBGene00018711	-0.103106134	19	1.51E+01	0.099851721
WBGene00018712	-0.787058563	25	7.11E+08	-0.667068385
WBGene00018710	0.118827177	15	2.49E-01	0.24102921
WBGene000303060	-0.061608201	2	7.20E-01	0.093266517
WBGene00018713	-0.377966474	9	4.39E+01	-0.108958978
WBGene00019347	0.030026351	39	3.31E+00	0.147825648
WBGene00018030	-0.199074915	2	1.22E+00	-0.073472669
WBGene00018028	-0.389184157	6	1.37E+01	-0.157287901
WBGene00018031	-0.27277659	5	4.22E+00	-0.40145568
WBGene00004121	0.074039682	14	4.92E-01	0.136738757
WBGene00018033	-0.033337594	22	5.52E+00	0.264188171
WBGene00016268	0.256179779	2	2.14E-01	0.093617851
WBGene00001537	-0.183855963	32	1.61E+03	-0.231322164
WBGene00016269	-0.1160747	32	2.03E+02	-0.105223365
WBGene00016271	-0.044961509	18	4.44E+00	-0.134487738
WBGene00044773	-0.006927962	1	5.37E-01	-0.004530276
WBGene00015583	-0.240203301	11	1.97E+01	-0.258643747
WBGene00004932	-0.038491575	5	9.22E-01	-0.087183708
WBGene00015586	0.015235817	7	7.39E-01	-0.17778881
WBGene00015587	-0.468618433	12	4.84E+02	-0.532075237
WBGene00015589	-0.045068282	2	6.76E-01	-0.032440539
WBGene00019576	-0.483751703	8	7.65E+01	-0.198096007
WBGene00019577	-0.256959108	11	2.40E+01	-0.416306247
WBGene00019574	-0.578454068	3	9.36E+00	-0.537790283
WBGene00019578	-0.634266046	14	1.45E+04	-0.700820698
WBGene00020725	0	5	7.18E-01	-0.001758884
WBGene00020726	-0.100027302	13	5.22E+00	-0.351526401
WBGene00007011	0.159939584	9	1.96E-01	-0.051191716
WBGene00020727	-0.401410026	10	8.60E+01	-0.59987761

WBGene00015121	-0.014036538	3	6.57E-01	-0.158601498
WBGene00015119	0.182897185	3	2.60E-01	-0.492278436
WBGene00002207	-0.031338183	15	2.53E+00	0.188477939
WBGene00015122	-0.012623617	4	7.13E-01	-0.010926957
WBGene00020365	-0.512234502	11	4.94E+02	-0.47706899
WBGene00020366	0.126323437	9	2.74E-01	-0.197046528
WBGene00020812	0.39545346	13	6.07E-03	-0.221945163
WBGene00004270	0.180762876	6	2.04E-01	0.090287664
WBGene00020813	-0.290110307	13	6.97E+01	-0.076864499
WBGene00000993	-0.216624153	16	5.77E+01	0.106046894
WBGene00020811	-0.03436149	7	1.11E+00	0.342855421
WBGene00020817	-0.442729193	5	1.27E+01	-0.272584847
WBGene00219274	-0.299693276	4	3.56E+00	-0.160262671
WBGene00021500	-0.574391993	5	2.99E+01	-1
WBGene00016347	-0.408428227	27	1.71E+05	-0.17876094
WBGene00016349	-0.189702884	7	4.03E+00	-0.25718723
WBGene00016350	-0.165931603	3	1.34E+00	-0.491234959
WBGene00016346	-0.166639572	5	2.12E+00	0.294198685
WBGene00016345	0.244789177	5	1.46E-01	-0.1373446
WBGene00016901	0	2	5.69E-01	0
WBGene00004220	0.263835137	23	7.53E-03	0.174216353
WBGene00044770	-0.001349575	6	7.83E-01	-0.0608315
WBGene00016900	-0.391921783	6	1.40E+01	-0.611520555
WBGene00016899	-0.075519023	5	1.17E+00	-0.12014768
WBGene00017338	0.112373865	8	3.23E-01	-0.144209639
WBGene00303423	-0.099156181	5	1.37E+00	0
WBGene00017339	-0.055091683	6	1.17E+00	-0.014848124
WBGene00017340	-0.057191409	6	1.18E+00	-0.025067696
WBGene00271701	-0.143830895	6	2.24E+00	-0.503817159
WBGene00017341	-0.285813446	4	3.29E+00	-0.133574704
WBGene00017342	0.219117363	32	7.13E-03	-0.167460314
WBGene00006886	-0.613821077	13	5.76E+03	-0.69904409
WBGene00017376	-0.006096993	2	5.82E-01	0.006204355
WBGene00017379	0.019987916	2	5.27E-01	-0.183320266
WBGene00017378	0.05268464	2	4.65E-01	0.09387642
WBGene00000792	-0.21895563	27	1.21E+03	-0.107957119
WBGene00003891	-0.489296439	5	1.72E+01	-1
WBGene00017375	-0.099885388	9	2.67E+00	0.066269362
WBGene00016489	0.31385616	14	1.51E-02	0.009554637
WBGene00044683	0.044004171	2	4.81E-01	0.249572024
WBGene00016490	0.241145389	10	7.53E-02	-0.428100064
WBGene00003370	0.48741306	8	1.04E-02	-0.677276474
WBGene00003369	1	8	6.80E-05	0.413262646
WBGene00022647	0.220335877	12	7.45E-02	0.732018797
WBGene00022648	0.040715506	2	4.87E-01	0.206049204
WBGene00006602	0.123667337	33	1.28E-01	0.190238341
WBGene00020086	0.075948533	13	4.74E-01	-0.124793216

WBGene00003600	0.816527211	35	1.16E-11	0.587532488
WBGene00006319	0.042035351	10	6.67E-01	-0.198981461
WBGene00017938	-0.158346284	3	1.30E+00	-0.043694041
WBGene00001968	0	1	5.26E-01	-0.020821871
WBGene00001967	0	1	5.26E-01	0
WBGene00017939	-0.304691147	21	1.39E+03	-0.271872477
WBGene00304237	-0.087394545	1	6.80E-01	-0.097162226
WBGene00018191	-0.102702436	12	4.57E+00	0.104789638
WBGene00018192	-0.22459792	4	2.34E+00	0.165679659
WBGene00002272	-0.191553749	3	1.51E+00	0.018162598
WBGene00015868	0.194227749	26	2.71E-02	0.39163332
WBGene00015867	0.223950159	6	1.48E-01	0.13044677
WBGene00019211	0.07182112	50	8.22E-01	0.251418679
WBGene00044771	-0.054369294	6	1.16E+00	-0.160345795
WBGene00003744	-0.150377143	12	8.39E+00	-0.16031172
WBGene00020732	0.337838686	27	5.78E-04	0.196432732
WBGene00044772	-0.165225073	3	1.34E+00	0.102613933
WBGene00017625	-0.204929063	12	1.68E+01	-0.192569236
WBGene00019189	-0.732258127	6	1.73E+02	-0.725365721
WBGene00007069	-0.043958193	1	5.99E-01	0.044807556
WBGene00007068	-0.20408865	7	4.54E+00	0.049438944

occupancy and FDR are listed.

		Intes			
BC_12		BC_05			
gatc.num	FDR	polii	gatc.num	FDR	
14	1.71E+02	-0.197773589	14	9.18E+00	
12	1.88E-02	0.149459005	12	3.90E-01	
26	1.60E+00	-0.004091912	26	3.72E+00	
17	3.48E-02	0.40141469	17	2.45E-02	
7	3.07E+00	0.081825648	7	5.92E-01	
6	3.71E-01	-0.21334665	6	2.39E+00	
13	7.51E+00	-0.132026108	13	4.36E+00	
27	3.99E+03	-0.370547648	27	1.52E+03	
20	1.09E-01	-0.026809323	20	3.19E+00	
30	1.10E+04	0.098207133	30	8.02E-01	
8	5.44E+01	0.362618855	8	1.16E-01	
9	3.28E+00	-0.006662496	9	1.10E+00	
12	2.53E+04	-0.129311973	12	3.70E+00	
4	4.81E+01	0.224471507	4	3.21E-01	
47	8.22E-01	0.069906611	47	2.30E+00	
6	2.32E-02	0.557206692	6	5.84E-02	
8	1.77E-03		2	8	3.15E-06
5	5.71E-02	0.923225253	5	1.54E-02	
3	7.11E-01	0.01948769	3	6.51E-01	
7	7.72E+00	-0.559297892	7	1.84E+01	
9	1.28E+01	-0.407848871	9	1.46E+01	
19	5.58E-01	-0.434253207	19	3.69E+02	
10	4.48E+00	-0.126643502	10	2.74E+00	
25	2.63E+02	-0.159754594	25	3.64E+01	
5	1.86E+00	-0.586380211	5	9.78E+00	
25	1.34E+03	-0.559883012	25	1.54E+04	
16	1.00E+01	-0.142626956	16	7.44E+00	
10	5.94E+00	0.250998852	10	1.96E-01	
10	2.08E-01	-0.144721606	10	3.11E+00	
6	2.75E+00	0.971160809	6	7.95E-03	
73	8.01E+03	0.002465416	73	8.57E+01	
7	7.23E-01	-0.000971689	7	9.22E-01	
10	1.71E+01	-0.564323509	10	5.84E+01	
5	1.18E+00	-0.082224843	5	1.13E+00	
1	5.36E-01	-0.030206086	1	6.41E-01	
15	3.24E+05	-0.701166414	15	1.44E+03	
15	3.22E+00	-0.388453923	15	6.96E+01	
1	5.15E-01	-0.067095494	1	6.93E-01	
11	4.29E-01	-0.161275458	11	4.09E+00	
2	5.64E-01	-0.013861611	2	6.70E-01	
35	8.12E-06	-0.242011062	35	9.46E+02	

12	6.54E+00	0.06043323	12	8.01E-01
16	2.76E-02	2	16	1.04E-07
35	3.30E+05	-0.520086504	35	2.86E+05
16	4.43E+00	0.16882745	16	3.07E-01
22	1.95E-01	-0.024079336	22	3.64E+00
17	1.23E+02	-0.265514518	17	3.24E+01
3	5.94E-01	-0.140594585	3	1.09E+00
13	1.49E+00	-0.026998731	13	1.77E+00
12	1.84E+01	-0.37205887	12	2.63E+01
11	1.03E+00	-0.095506018	11	2.49E+00
6	2.73E-01	-0.136981294	6	1.65E+00
18	9.06E-02	1	18	1.19E-06
12	1.41E+00	0.123187265	12	4.82E-01
22	1.25E+03	-0.0929865	22	9.23E+00
11	4.95E-01	-0.034632747	11	1.58E+00
8	8.59E-01	-0.069466691	8	1.48E+00
9	8.28E-01	-0.156655849	9	2.90E+00
43	1.41E-07	0.04110945	43	4.14E+00
3	1.61E-01	0.171336901	3	4.01E-01
9	9.77E-01	0.04455715	9	7.93E-01
4	7.99E-01	-0.0263236	4	8.20E-01
7	2.63E+02	-0.619947588	7	2.55E+01
11	6.12E+00	-0.334866364	11	1.51E+01
1	5.36E-01	0	1	6.02E-01
33	5.91E+05	1	33	4.05E-11
18	1.10E+02	0.227822465	18	1.51E-01
6	6.76E-01	-0.004877434	6	8.76E-01
12	2.03E+07	-0.76626049	12	6.32E+02
6	3.01E+01	0.292055907	6	2.09E-01
32	6.60E-01	1	32	1.48E-09
5	2.95E+00	-0.494382954	5	6.60E+00
6	4.94E-01	-0.350537934	6	4.63E+00
11	4.45E-01	-0.190110614	11	5.09E+00
1	5.54E-01	0.406248306	1	2.56E-01
5	2.58E-01	2	5	8.42E-04
21	2.19E+02	0.721034401	21	2.16E-04
33	8.86E+04	1	33	3.82E-12
7	1.46E+00	-0.002880973	7	9.32E-01
14	1.87E+03	-1	14	8.48E+04
4	9.23E-01	-0.050563666	4	8.98E-01
8	4.89E+01	-0.682429815	8	5.53E+01
5	5.43E-01	-0.028387042	5	9.00E-01
3	2.22E+00	-0.932488701	3	1.36E+01
63	7.61E-05	-0.415158238	63	1.30E+08
31	5.29E+01	0.078678982	31	1.17E+00
15	3.58E+01	0.495469796	15	1.32E-02
3	7.34E-01	0.076032894	3	5.44E-01

10	2.98E-01	0.002614638	10	1.11E+00
6	1.08E-02	0.321911074	6	1.81E-01
44	4.36E-03	-0.210604993	44	2.61E+03
3	5.20E-01	-0.043697759	3	7.96E-01
7	3.61E-01	-0.267016801	7	3.84E+00
12	3.78E-01	0.17866858	12	3.08E-01
9	2.01E+00	-0.001535727	9	1.07E+00
4	6.91E-01	0.022146615	4	6.84E-01
8	3.89E-03	0.301507278	8	1.66E-01
11	8.45E-02	0.095218832	11	5.93E-01
11	2.34E-01	0.015252565	11	1.08E+00
7	1.01E+00	0.137133481	7	4.40E-01
10	5.82E-01	0.466817237	10	4.34E-02
47	9.29E+01	0.081176079	47	1.70E+00
4	6.24E-01	0	4	7.43E-01
33	4.42E+01	-0.149981092	33	1.06E+02
12	1.69E+02	-0.415386518	12	3.73E+01
4	6.96E-02	3.79E-05	4	7.43E-01
11	4.29E+00	-0.051281792	11	1.79E+00
7	1.87E+00	-0.04317516	7	1.16E+00
44	4.01E+07	0.126904797	44	4.91E-01
5	7.43E-01	0.080882575	5	5.64E-01
1	5.36E-01	0	1	6.02E-01
15	1.93E+01	-0.3166423	15	3.47E+01
18	2.13E+01	-0.109611384	18	6.88E+00
100	5.90E-16	0.20454798	100	7.01E-03
22	5.35E+06	-0.846007999	22	2.39E+05
19	7.30E-06	-0.152539818	19	1.30E+01
33	1.28E+00	0.001798357	33	5.51E+00
42	4.87E-03	0.81622721	42	2.54E-08
26	1.85E+02	-0.174929798	26	5.40E+01
15	3.74E+00	0.005251562	15	1.53E+00
23	1.89E+00	0.040038177	23	1.61E+00
12	6.14E+00	-0.115039654	12	3.30E+00
69	1.82E+05	0.029859843	69	2.24E+01
6	7.03E-01	-0.113816991	6	1.48E+00
18	3.01E-02	1	18	1.19E-06
34	4.30E-04	0.589143899	34	4.68E-05
16	2.82E-01	0.063003222	16	9.06E-01
16	8.95E-03	0.38298462	16	3.42E-02
13	6.02E+01	-0.390906141	13	4.05E+01
29	1.16E+02	-0.482115711	29	1.79E+04
5	6.55E-01	0.001291506	5	7.93E-01
8	3.41E+00	0.144323361	8	4.20E-01
3	4.62E+01	3	3	4.19E-05
7	8.65E-01	3	7	5.66E-07
2	1.61E-01	-0.522942267	2	2.58E+00

10	8.35E-01	-0.002071326	10	1.15E+00
12	1.61E+03	0.176628341	12	3.13E-01
5	5.14E-01	-0.194284465	5	1.83E+00
13	1.34E+00	0.057407227	13	8.53E-01
2	4.11E-01	0.545719911	2	1.52E-01
15	1.85E-02	1	15	7.53E-05
40	2.76E-01	0.098510667	40	9.44E-01
19	5.29E-02	0.525515762	19	4.18E-03
35	5.30E-06	0.226855564	35	6.22E-02
25	8.37E-01	-0.104800083	25	1.59E+01
6	1.51E-01	-0.638456048	6	1.85E+01
11	2.26E+00	-0.265062265	11	8.94E+00
12	8.09E-01	-0.111870057	12	3.22E+00
7	1.79E+00	-0.006168527	7	9.48E-01
8	4.09E-01	0.05735949	8	7.02E-01
42	2.36E+02	0.075228428	42	1.72E+00
6	1.01E+00	0.232361763	6	2.79E-01
4	1.15E+01	0.927419914	4	2.33E-02
15	3.37E-02	0.162288419	15	3.34E-01
26	3.14E+00	0.034516546	26	2.03E+00
42	3.19E-01	0.086265383	42	1.32E+00
33	2.33E+00	-0.12332576	33	6.28E+01
119	3.00E+08	-0.002948336	119	2.92E+03
4	7.74E-01	-0.092657748	4	1.05E+00
5	1.10E+02	-0.517906003	5	7.30E+00
26	1.03E+00	0.828485926	26	8.08E-06
13	3.52E+04	-0.510811695	13	1.14E+02
31	2.09E+04	-0.550020211	31	1.21E+05
11	1.29E+03	-1	11	4.18E+03
14	1.06E+01	-0.52577176	14	1.85E+02
2	6.25E-01	-0.089388765	2	8.18E-01
77	2.88E+01	0.617069808	77	3.11E-10
7	1.35E+03	-0.312307461	7	4.89E+00
5	3.74E+00	-0.573666607	5	9.26E+00
1	5.78E-01	-0.081277558	1	7.14E-01
1	4.99E-01	-0.015937023	1	6.22E-01
2	5.65E-02	0.291338052	2	2.98E-01
15	2.31E-02	0.685573603	15	2.09E-03
32	1.26E+01	-0.039153709	32	1.12E+01
11	2.82E-01	0.012125257	11	1.11E+00
1	5.13E-01	0.006353964	1	5.94E-01
6	6.92E-01	-0.005358679	6	8.78E-01
10	8.44E-01	-0.049746244	10	1.60E+00
13	8.26E-01	-0.045406657	13	2.07E+00
23	6.26E+02	0.05271276	23	1.35E+00
5	4.60E-01	0.062334329	5	6.11E-01
13	6.58E-01	0.109621796	13	5.44E-01

7	7.27E-01	0	7	9.18E-01
2	5.53E-01	-0.02314344	2	6.87E-01
46	2.56E-09	0.22900373	46	3.29E-02
6	1.88E-03	-0.011424316	6	9.04E-01
11	2.37E+00	-0.161923169	11	4.11E+00
28	8.13E+02	-0.70968826	28	5.82E+05
15	2.69E-04	-0.098860431	15	4.20E+00
69	1.57E+00	0.056053926	69	8.06E+00
34	1.92E+00	0.002509209	34	5.82E+00
45	1.63E+01	0.038589767	45	4.87E+00
23	7.83E-01	0.176880283	23	2.36E-01
26	2.52E-03	0.108873723	26	6.34E-01
7	1.58E-03	-0.109742567	7	1.65E+00
4	6.32E-01	-0.070735479	4	9.68E-01
3	5.80E-01	-0.019728006	3	7.38E-01
21	6.50E-01	-0.133767782	21	1.39E+01
27	1.11E+00	0.025822918	27	2.46E+00
8	3.74E-01	0.107338211	8	5.22E-01
17	1.76E+00	-0.084117884	17	4.59E+00
21	5.61E+00	-0.444623081	21	7.77E+02
12	1.10E+05	-0.845428611	12	1.20E+03
6	1.95E+00	0.078868776	6	5.85E-01
31	1.31E+02	-0.372650653	31	4.66E+03
20	1.25E+04	-0.775779598	20	3.47E+04
5	2.16E+00	-0.208040195	5	1.94E+00
8	5.87E-01	-0.292122015	8	5.52E+00
16	1.15E+01	-0.176266442	16	1.05E+01
9	2.33E+00	0.355342398	9	1.07E-01
16	2.41E+00	0.127331176	16	4.69E-01
10	1.89E-01	0.170174974	10	3.45E-01
2	6.74E-02	-0.471448736	2	2.25E+00
12	1.76E-01	-0.134795769	12	3.87E+00
12	1.84E-01	-0.125525195	12	3.59E+00
76	3.40E-04	0.124294686	76	5.75E-01
17	1.55E+00	0.140123209	17	4.09E-01
3	5.93E-01	0	3	6.93E-01
12	9.18E-01	0.000365219	12	1.30E+00
56	1.33E+03	0.178495526	56	9.62E-02
11	8.15E+00	0.127770032	11	4.65E-01
17	3.16E+03	0.451932132	17	1.42E-02
6	1.40E+00	0.035852824	6	7.20E-01
1	5.53E-01	-0.005815671	1	6.09E-01
21	1.02E+02	-0.560946953	21	3.51E+03
13	2.53E-01	0.099617478	13	5.93E-01
9	6.89E+01	-0.577308251	9	4.36E+01
4	6.90E-01	-0.033165095	4	8.41E-01
5	9.37E-01	0.168722482	5	3.88E-01

16	5.85E+00	0.105374578	16	5.87E-01
15	8.49E+02	-0.301517716	15	3.00E+01
3	6.91E-02	0.06219004	3	5.68E-01
9	2.15E-02	2	9	2.75E-06
2	5.68E-01	2	2	1.08E-02
23	1.89E+00	0.696226387	23	1.61E-04
1	3.15E-01	-0.099153845	1	7.42E-01
6	7.92E-03	0.688014171	6	3.11E-02
2	4.10E-01	0.051555866	2	5.63E-01
20	2.61E+01	-0.069326545	20	5.41E+00
4	2.69E+01	-0.520222444	4	5.18E+00
10	2.61E-01	-0.053219846	10	1.64E+00
38	1.51E-07	0.495518767	38	1.38E-04
1	9.48E-01	-0.030411123	1	6.42E-01
32	3.38E-03	0.198537587	32	1.24E-01
62	1.05E+02	0.53629002	62	2.80E-07
7	2.43E-01	1	7	2.76E-03
23	7.17E+01	-0.00868818	23	3.19E+00
31	1.97E+02	-0.10660915	31	3.51E+01
10	1.74E+00	0.185077046	10	3.11E-01
6	7.01E-01	-0.03016921	6	9.89E-01
6	4.83E-01	0	6	8.55E-01
16	1.07E+00	0.008302847	16	1.59E+00
15	2.19E+01	-0.301229176	15	2.99E+01
65	3.20E+00	0.000272884	65	5.35E+01
27	3.28E-01	0.58797226	27	2.73E-04
35	3.43E+00	-0.367197602	35	1.24E+04
6	2.47E-01	-1	6	1.40E+02
10	3.05E+02	-0.301629105	10	9.32E+00
2	4.13E-01	1	2	2.73E-02
5	1.64E+00	0.399450359	5	1.45E-01
13	9.24E-01	0.802459502	13	1.39E-03
4	6.76E+00	3	4	1.20E-05
4	1.50E+00	3	4	3.47E-05
5	1.01E-01	0.253236732	5	2.70E-01
13	1.88E-01	0.157577684	13	3.60E-01
22	2.33E+00	0.405647649	22	1.11E-02
29	3.41E+02	-0.44833014	29	1.00E+04
58	5.16E+02	0.326442906	58	6.91E-04
3	5.93E-01	-4.92E-05	3	6.93E-01
23	4.24E+02	1	23	2.43E-08
55	3.72E+00	0.026558329	55	1.16E+01
6	6.09E-01	-0.194102991	6	2.18E+00
79	1.21E+02	0.026735303	79	4.41E+01
6	6.70E-01	-0.000763328	6	8.59E-01
1	5.36E-01	0	1	6.02E-01
26	7.55E+00	-0.105961408	26	1.83E+01

7	1.35E+00	0.393436348	7	1.11E-01
19	2.29E+01	-0.658911718	19	5.30E+03
12	3.59E+00	-0.245695703	12	9.47E+00
8	1.21E+00	0.597384354	8	2.90E-02
50	9.98E-02	0.084096903	50	1.69E+00
3	7.38E-01	-0.100079588	3	9.53E-01
13	7.23E-01	-0.000200512	13	1.40E+00
25	1.10E-04	0.618561944	25	2.82E-04
27	2.20E-01	0.352078457	27	1.25E-02
18	1.09E+00	0.243250057	18	1.27E-01
11	1.56E+00	-0.514153207	11	5.83E+01
8	3.51E+01	-0.28384628	8	5.26E+00
12	4.72E+00	0.052965574	12	8.50E-01
2	5.22E-01	0.300924534	2	2.91E-01
16	7.05E-01	-0.117492013	16	5.75E+00
12	7.75E+03	-0.78944925	12	7.63E+02
24	5.96E+00	-0.051637575	24	6.43E+00
3	7.68E-02	-0.293869071	3	1.77E+00
24	2.54E+06	-0.18878541	24	4.75E+01
11	4.41E+02	-0.198667004	11	5.42E+00
13	6.94E+01	0.177197932	13	3.04E-01
8	1.21E+00	-0.032332217	8	1.19E+00
18	1.57E+01	-0.149455197	18	1.08E+01
15	1.49E+00	-0.253499047	15	1.88E+01
35	1.34E+01	-0.137477118	35	1.11E+02
19	4.40E-01	0.035257698	19	1.40E+00
34	8.98E-01	-0.088764183	34	3.61E+01
26	1.20E-03	0.274035526	26	4.77E-02
15	9.07E-02	0.084850734	15	7.07E-01
11	4.48E-03	1	11	2.37E-04
5	1.15E-01	2	5	9.62E-04
8	6.79E-01	-0.052917001	8	1.35E+00
9	1.73E+00	0.228768357	9	2.42E-01
6	2.71E-01	0.205556986	6	3.18E-01
6	3.41E-01	-0.197641609	6	2.22E+00
2	1.19E-01	-0.530388117	2	2.63E+00
4	5.29E-01	-0.002158969	4	7.49E-01
29	1.06E+00	-0.337375386	29	1.47E+03
5	5.91E-01	-0.140231788	5	1.45E+00
35	3.98E+00	-0.206298529	35	4.54E+02
4	2.19E-01	0.651961202	4	6.52E-02
17	1.19E-01	0.115008429	17	5.36E-01
16	1.18E+00	0.067590407	16	8.65E-01
14	1.71E-01	-0.100629514	14	3.77E+00
10	2.11E-01	0.012721611	10	1.04E+00
10	2.22E+04	-0.32880378	10	1.13E+01
5	2.56E+00	-0.225971242	5	2.10E+00

6	8.00E+01	-0.717433242	6	2.71E+01
6	1.43E+00	-0.282847279	6	3.34E+00
4	2.83E+00	0	4	7.43E-01
13	2.74E+02	-0.605356767	13	2.57E+02
3	6.47E-01	-0.040046104	3	7.87E-01
6	2.75E+00	-0.546704718	6	1.19E+01
7	1.84E+01	-0.525781499	7	1.54E+01
12	2.57E-01	-0.14532458	12	4.21E+00
8	5.94E-01	0.059904728	8	6.91E-01
23	8.54E+02	-0.012653498	23	3.37E+00
16	5.87E+04	-0.841926552	16	9.58E+03
29	9.58E-04	0.005154865	29	3.94E+00
7	1.98E-02	-0.328457025	7	5.34E+00
9	1.84E-01	-0.774306527	9	1.55E+02
8	3.35E+02	0.620083259	8	2.53E-02
28	2.49E-06	0.381605113	28	6.74E-03
6	4.55E-01	-0.117044629	6	1.50E+00
2	6.38E-01	-0.476679404	2	2.28E+00
9	6.63E+01	0.096077468	9	5.69E-01
33	8.49E+02	-0.500272686	33	9.62E+04
5	3.28E+00	-0.532117243	5	7.76E+00
13	5.15E+01	1	13	1.92E-04
35	4.06E-05	-0.124155068	35	8.41E+01
11	5.89E-02	2	11	1.90E-06
6	1.06E+01	0.367804057	6	1.45E-01
7	2.33E+01	0.998320418	7	4.35E-03
11	1.38E+01	-0.02488233	11	1.47E+00
10	4.79E+03	-1	10	5.23E+03
26	1.08E+01	-0.02210343	26	4.93E+00
9	1.42E+00	-0.212355386	9	4.15E+00
15	3.66E-01	-0.157783998	15	7.44E+00
4	4.65E-02	-0.522330337	4	5.22E+00
9	2.94E+01	0.232916509	9	2.35E-01
14	6.32E+01	-0.176766708	14	7.57E+00
34	4.25E-01	-0.398213682	34	1.76E+04
12	2.50E+00	-0.269552675	12	1.15E+01
6	2.76E+00	0.26406218	6	2.40E-01
45	3.71E+02	0.121759858	45	5.62E-01
6	1.22E+00	-0.34832378	6	4.58E+00
6	5.37E-01	0.107630356	6	5.09E-01
18	1.65E+03	-0.93382332	18	7.78E+04
6	8.59E+00	-0.092836077	6	1.34E+00
1	1.50E+00	4.32E-05	1	6.02E-01
8	8.83E+00	-0.086672624	8	1.64E+00
9	2.68E+00	0.330033634	9	1.26E-01
5	1.39E+00	-0.183665764	5	1.75E+00
10	1.50E+02	0.325365647	10	1.17E-01

41	1.80E+08	0.560655684	41	1.61E-05
3	1.31E+00	-0.065018403	3	8.53E-01
6	4.68E+00	-0.113250883	6	1.48E+00
4	3.19E-01	-0.279180283	4	2.11E+00
21	3.04E-01	0.232687415	21	1.21E-01
1	4.19E-01	-0.566906871	1	1.99E+00
8	1.78E+00	-0.22413294	8	3.70E+00
4	5.90E-01	1.25E-05	4	7.43E-01
11	9.99E+03	0.236500635	11	2.05E-01
2	1.13E+00	-0.099836962	2	8.41E-01
1	4.37E-01	-0.071703311	1	7.00E-01
8	5.51E-01	-0.039524885	8	1.24E+00
12	4.47E-01	0.568001479	12	1.33E-02
8	3.59E-02	3	8	8.68E-09
9	7.25E-03	2	9	2.42E-06
6	3.64E+00	-0.010785831	6	9.01E-01
5	5.48E-01	0.130053546	5	4.57E-01
32	1.72E+04	0.045242965	32	2.26E+00
10	1.68E+03	0.145330677	10	4.10E-01
5	1.40E+01	0.207520514	5	3.28E-01
22	6.87E-03	0.564201685	22	1.30E-03
7	1.22E-01	-0.085968066	7	1.45E+00
13	2.36E+01	-0.791874047	13	1.28E+03
53	7.37E+00	-0.197696825	53	9.29E+03
15	4.28E-01	-0.086808895	15	3.74E+00
12	2.61E-02	0.126515587	12	4.70E-01
6	7.02E-03	2	6	1.28E-04
2	3.98E-01	0.244214035	2	3.38E-01
31	7.90E-02	-0.001179848	31	5.06E+00
3	5.15E-02	-0.739915074	3	7.35E+00
4	8.16E-01	-0.007725856	4	7.65E-01
31	3.78E+03	0.121317399	31	5.34E-01
4	5.85E-01	0	4	7.43E-01
7	2.72E-01	0.189400221	7	3.32E-01
26	1.38E+00	-0.238379318	26	1.46E+02
10	5.51E-01	-0.022873637	10	1.33E+00
5	4.77E-01	0.32549532	5	1.98E-01
4	2.30E-01	0.209550738	4	3.40E-01
37	1.46E+00	0.245664827	37	3.72E-02
9	5.93E-03	0.583922375	9	2.45E-02
6	1.30E+01	0.18057715	6	3.58E-01
10	3.05E+00	-0.006394032	10	1.18E+00
9	4.46E-01	0.070023395	9	6.73E-01
12	1.11E-01	0.217934022	12	2.25E-01
11	2.51E+01	0.893791222	11	1.45E-03
10	7.81E+01	0.025118169	10	9.51E-01
37	1.13E+01	-0.112756944	37	8.65E+01

11	9.46E-01	-0.052480785	11	1.80E+00
21	1.52E+00	-0.088592575	21	7.73E+00
2	2.04E-01	-0.310703714	2	1.47E+00
24	1.86E-02	0.417535069	24	6.89E-03
17	1.82E-01	0.120707815	17	5.04E-01
23	4.08E+00	0.06158258	23	1.19E+00
6	7.00E+03	-2	6	1.53E+03
7	1.10E+00	-0.001112902	7	9.23E-01
5	9.40E-01	0	5	7.97E-01
6	7.01E-01	0	6	8.55E-01
5	6.57E-01	0	5	7.97E-01
3	2.47E+00	-0.363038302	3	2.21E+00
20	3.03E-02	-0.339634775	20	1.55E+02
12	1.87E+00	-0.377440037	12	2.74E+01
51	7.70E+02	0.432395706	51	6.60E-05
8	6.09E+00	0.501219333	8	5.11E-02
13	2.71E+04	-0.525109592	13	1.29E+02
2	4.33E-01	0.395404355	2	2.27E-01
10	5.97E-02	0.059418577	10	7.48E-01
2	6.06E-01	0.121752737	2	4.68E-01
4	2.73E-01	0.185502159	4	3.72E-01
29	9.37E-01	0.080689134	29	1.07E+00
14	3.60E+00	-0.1076099	14	4.02E+00
8	6.51E-01	-0.224336803	8	3.70E+00
13	8.62E+02	-0.442318512	13	6.31E+01
28	4.20E+02	-0.028924251	28	6.52E+00
3	5.25E-01	0	3	6.93E-01
15	1.28E+00	0.172944478	15	3.01E-01
7	5.18E-01	-0.043805913	7	1.16E+00
56	2.08E+04	0.199804988	56	4.87E-02
13	1.58E+04	2	13	2.37E-08
18	1.80E+00	-0.22626055	18	2.58E+01
5	2.30E-01	-0.449662252	5	5.45E+00
13	3.63E-01	1	13	1.13E-04
16	1.43E+00	0.012843887	16	1.51E+00
21	9.55E+02	-0.200568952	21	3.30E+01
4	4.27E-01	-0.193860853	4	1.53E+00
1	5.41E-01	0.01977976	1	5.77E-01
27	3.71E-05	0.562926504	27	4.09E-04
2	3.81E-02	0.17308165	2	4.08E-01
6	1.96E-01	-0.177894382	6	2.02E+00
14	1.49E+00	-0.069381483	14	2.83E+00
2	5.12E-01	-0.15701075	2	9.79E-01
29	2.60E-01	-0.059438502	29	1.20E+01
33	2.90E+12	-0.598771248	33	6.54E+05
5	7.26E-01	-0.054790093	5	1.01E+00
14	6.64E+05	-0.794799332	14	2.17E+03

5	2.44E-01	0.616607224	5	5.71E-02
5	1.86E+00	-0.050771228	5	9.91E-01
76	1.19E-03	-0.48082232	76	9.99E+10
7	8.49E-01	-0.024106428	7	1.04E+00
8	6.55E-01	-0.389523929	8	9.81E+00
8	9.27E-01	-0.099522631	8	1.77E+00
36	3.72E+08	-0.577684431	36	1.37E+06
33	1.03E+05	-0.131037212	33	7.30E+01
20	6.34E+09	-0.579517609	20	3.04E+03
42	1.47E+06	-0.202635663	42	1.49E+03
12	4.70E-01	-0.047949517	12	1.92E+00
30	9.95E-01	-0.064883927	30	1.47E+01
7	4.71E-01	-0.12536596	7	1.80E+00
4	2.79E-01	-0.154696085	4	1.32E+00
5	3.44E-01	-0.100497606	5	1.23E+00
41	9.35E+04	-0.50955963	41	1.84E+06
15	1.41E-01	0.211268277	15	2.08E-01
7	1.36E-01	0.148466994	7	4.14E-01
14	9.47E-01	-0.107234379	14	4.01E+00
21	4.06E+06	-0.615358966	21	7.09E+03
3	2.27E+01	-1	3	1.75E+01
16	4.08E+01	0.89005072	16	1.90E-04
11	2.35E-01	0.183239523	11	3.06E-01
13	8.77E-01	-0.208668289	13	8.44E+00
46	2.87E+06	0.106230465	46	8.51E-01
7	6.13E-01	-0.002013004	7	9.28E-01
8	3.84E+02	0.025724594	8	8.46E-01
92	1.94E+03	-0.033013446	92	1.97E+03
8	1.16E+01	-0.194780417	8	3.11E+00
5	6.91E-01	0.191974963	5	3.51E-01
1	5.36E-01	0	1	6.02E-01
9	1.64E+00	-0.170479758	9	3.17E+00
10	1.27E+00	-0.247117471	10	6.37E+00
12	2.27E-01	-0.042527803	12	1.84E+00
10	1.88E+01	-0.288761859	10	8.52E+00
5	7.25E-01	-0.062250445	5	1.04E+00
10	1.76E-02	-0.732665751	10	1.89E+02
16	2.52E-01	-0.362921886	16	7.10E+01
3	1.46E-01	-0.099475378	3	9.52E-01
5	1.08E-02	-0.248135852	5	2.30E+00
14	1.45E-03	-0.472991103	14	1.14E+02
2	4.07E-01	-0.040745092	2	7.19E-01
4	1.41E+01	1	4	8.74E-03
16	1.42E+01	0.36679562	16	4.04E-02
16	6.38E+00	1	16	2.28E-05
4	9.96E+00	2	4	1.32E-04
6	1.84E-01	1	6	1.65E-03

21	2.14E+00	0.084196479	21	8.25E-01
18	6.54E+02	-0.22885393	18	2.65E+01
16	4.47E+04	-0.202344503	16	1.37E+01
4	1.71E+00	0.237313301	4	3.06E-01
9	3.53E+00	0.457270766	9	5.55E-02
12	8.80E+00	-0.391671848	12	3.08E+01
38	3.35E-07	0.745344602	38	5.41E-07
21	2.79E+04	-0.670944175	21	1.46E+04
9	4.23E+01	0.046253859	9	7.84E-01
23	1.31E-01	0.978407325	23	3.07E-06
8	1.15E+02	-1	8	2.18E+03
43	1.86E+18	-0.750259277	43	1.47E+09
13	1.45E+00	-0.336017051	13	2.53E+01
13	2.71E+00	-0.384607126	13	3.84E+01
14	1.43E+02	-0.729108519	14	1.19E+03
2	8.77E-01	0.159566859	2	4.23E-01
12	3.15E+02	-0.596271536	12	1.60E+02
2	6.87E-01	-0.400718519	2	1.87E+00
9	1.65E+00	-0.19213757	9	3.64E+00
15	4.75E+07	-0.240117488	15	1.65E+01
1	6.96E-01	0.198582622	1	3.96E-01
4	1.16E-01	0.392601518	4	1.72E-01
4	7.93E-04	1	4	7.10E-03
18	4.09E-01	0.633046911	18	1.53E-03
10	2.10E-02	-0.057361327	10	1.69E+00
4	8.58E-02	0.283395528	4	2.58E-01
11	5.33E-01	0.204965226	11	2.60E-01
52	2.66E+02	0.486205726	52	1.13E-05
15	3.50E+01	-0.209487932	15	1.23E+01
14	7.90E-06	0.252354646	14	1.49E-01
2	3.04E-01	0.705490254	2	9.96E-02
5	1.48E-02	0.138406367	5	4.41E-01
13	1.30E-02	1	13	1.40E-04
6	2.70E+00	0.19370897	6	3.36E-01
10	1.33E+00	-0.596829058	10	7.33E+01
6	2.19E+00	1	6	3.62E-03
3	1.80E+01	-1	3	2.15E+01
17	1.20E+03	-0.475024619	17	3.11E+02
7	2.55E+00	0.022882047	7	8.12E-01
14	5.56E+00	0.28328956	14	1.12E-01
9	1.55E-01	0.663648692	9	1.47E-02
6	2.12E-01	0.68627539	6	3.14E-02
5	2.76E-01	0.433019078	5	1.25E-01
10	4.72E-01	0.849395063	10	3.00E-03
4	1.01E-02	-0.50741495	4	4.94E+00
24	8.13E-01	-0.588995875	24	1.62E+04
33	5.60E+03	0.158366302	33	2.62E-01

1	1.70E-01	0.430423605	1	2.43E-01
3	8.70E-01	0.102434895	3	5.00E-01
6	1.08E+00	-0.382274879	6	5.39E+00
11	3.26E+02	-0.454196489	11	3.71E+01
12	3.66E+05	-1	12	2.34E+04
11	4.52E+03	-2	11	4.39E+05
4	3.90E-01	-1	4	3.55E+01
11	3.35E-01	-0.030560492	11	1.53E+00
5	3.70E+00	-0.727661762	5	1.79E+01
4	4.78E+00	0.550851844	4	9.51E-02
4	9.41E-01	-0.0564134	4	9.17E-01
9	6.46E+00	-0.326940036	9	8.68E+00
3	7.12E-01	-0.010024169	3	7.15E-01
17	4.61E+00	0.928005558	17	8.37E-05
7	2.07E-01	-0.021739265	7	1.03E+00
4	1.13E+00	-0.095925804	4	1.06E+00
14	3.84E+03	-0.519021176	14	1.74E+02
105	4.90E+07	-0.508303673	105	7.34E+15
6	1.11E+01	-0.672145167	6	2.18E+01
7	2.06E+00	-0.267346556	7	3.85E+00
3	5.94E-01	-0.00096586	3	6.95E-01
8	7.65E-01	0	8	9.84E-01
7	3.51E+02	-0.437573419	7	9.58E+00
2	6.53E-01	-0.024611059	2	6.89E-01
8	7.65E-01	0	8	9.84E-01
11	1.28E+02	-0.828225615	11	6.20E+02
4	6.24E-01	0.685783426	4	5.74E-02
21	3.96E+02	0.297495987	21	5.21E-02
5	5.21E-01	-0.666705593	5	1.38E+01
6	1.08E-01	0.361106361	6	1.50E-01
108	3.20E-01	-0.382514613	108	1.08E+13
2	1.22E+00	-2	2	1.31E+02
203	6.20E-14	-0.903051373	203	5.28E+49
4	6.57E-02	0.219403667	4	3.28E-01
13	3.07E+02	-0.392247871	13	4.10E+01
10	1.93E+00	-0.123396121	10	2.68E+00
10	1.18E+00	-0.087694117	10	2.09E+00
8	5.01E+00	0.073663409	8	6.37E-01
5	2.45E+01	-0.133139396	5	1.41E+00
2	3.11E-01	-0.135300332	2	9.24E-01
11	6.01E+01	-0.295660779	11	1.13E+01
14	3.64E+00	-0.471351444	14	1.12E+02
10	8.09E-03	0.621735585	10	1.47E-02
5	6.07E-03	0.109589009	5	4.99E-01
10	4.26E+00	0.619452574	10	1.50E-02
14	5.22E+00	0.324680107	14	7.68E-02
7	3.90E+01	-0.188221052	7	2.52E+00

7	5.56E+02	0.613540656	7	3.42E-02
2	1.24E+00	0.028662577	2	5.99E-01
1	8.25E-01	-0.026464731	1	6.36E-01
3	3.33E-01	-1	3	4.48E+01
2	3.40E-01	-0.085410059	2	8.10E-01
5	1.08E+01	-0.297768966	5	2.85E+00
10	1.94E+02	0.119288194	10	4.92E-01
6	1.86E+01	0.987221382	6	7.36E-03
12	2.07E+01	0.999207543	12	4.10E-04
8	7.30E+00	0.252343269	8	2.22E-01
14	4.19E-01	0.003985182	14	1.45E+00
5	2.00E-04	-0.00533733	5	8.16E-01
9	5.95E-02	0.974438707	9	1.98E-03
9	1.16E-01	1	9	2.52E-04
4	3.75E-03	0.718783699	4	5.08E-02
12	4.48E+00	0.625878683	12	8.35E-03
16	1.22E+06	-0.09016396	16	4.35E+00
35	1.35E+06	0.552143635	35	7.79E-05
7	2.75E+00	-0.119586804	7	1.74E+00
12	4.57E+00	-0.125466145	12	3.59E+00
2	5.60E-01	0	2	6.46E-01
20	1.29E-03	0.34141059	20	3.31E-02
3	2.41E-01	-0.327601825	3	1.97E+00
10	4.91E+00	0.365431108	10	8.82E-02
13	9.95E-01	0.019529154	13	1.18E+00
3	5.63E-01	0.161948265	3	4.13E-01
29	1.84E+02	-0.578410225	29	9.48E+04
14	4.71E+04	-1	14	1.12E+05
15	2.61E-01	0.048327845	15	1.01E+00
13	7.83E-02	-0.195287674	13	7.52E+00
10	5.05E+02	-1	10	1.48E+03
11	3.49E-02	-0.123808058	11	3.09E+00
7	7.85E-02	-0.245132213	7	3.41E+00
38	9.35E-08	0.364522219	38	2.51E-03
9	9.04E-01	0.174965252	9	3.42E-01
3	1.19E+00	0.522853373	3	1.31E-01
10	5.56E-02	-0.080876208	10	1.99E+00
15	2.99E+01	-0.50241191	15	2.10E+02
2	5.64E-01	0	2	6.46E-01
6	5.96E+01	-0.583648646	6	1.42E+01
6	1.24E+02	0.08581589	6	5.66E-01
14	1.99E-04	-0.109811618	14	4.10E+00
18	1.25E+02	0.134282364	18	4.35E-01
1	6.75E-01	-0.167379777	1	8.56E-01
212	1.14E+07	0.501341631	212	7.13E-20
11	2.69E-01	0.061754895	11	7.64E-01
2	5.79E-01	0	2	6.46E-01

7	9.22E-01	-0.564403073	7	1.89E+01
15	4.62E+01	0.014192364	15	1.40E+00
6	1.46E+00	0.139334652	6	4.37E-01
5	3.15E-01	0.927258253	5	1.51E-02
30	2.06E+08	-0.197736157	30	1.57E+02
9	3.94E+00	0.303634937	9	1.49E-01
13	9.02E+00	-1	13	9.33E+03
98	1.24E+07	0.971487228	98	4.60E-21
5	9.34E-01	-0.0330892	5	9.18E-01
28	1.81E-01	-0.200130846	28	1.15E+02
2	2.58E-01	-0.21301338	2	1.14E+00
3	5.43E-01	-0.840522378	3	1.01E+01
46	5.32E+03	0.11802731	46	6.23E-01
6	8.53E+00	-0.112092464	6	1.47E+00
8	1.35E-03	-0.296839539	8	5.68E+00
7	1.05E+02	0.456024397	7	7.96E-02
8	2.88E+01	-0.608189567	8	3.57E+01
18	4.42E-01	0.418852108	18	1.73E-02
49	5.66E+04	-0.224706748	49	9.77E+03
20	2.00E+01	-0.020204473	20	2.94E+00
2	9.91E-01	-0.010337431	2	6.64E-01
79	1.29E-10	0.141438335	79	2.71E-01
6	5.64E-03	0.189021163	6	3.44E-01
12	1.86E+00	-0.003714214	12	1.34E+00
4	2.65E+00	-0.624238852	4	7.64E+00
3	9.89E-01	-0.091438858	3	9.28E-01
10	1.45E-01	0.105809645	10	5.41E-01
4	2.10E+00	0.465650291	4	1.31E-01
9	2.75E-01	-0.136827847	9	2.55E+00
2	8.86E+00	-1	2	1.54E+01
12	1.30E+05	0.04419442	12	9.13E-01
8	1.46E+01	0.363110919	8	1.15E-01
21	7.65E+02	0.214712585	21	1.52E-01
6	4.50E-01	-0.145880579	6	1.73E+00
8	6.26E-01	0.028880943	8	8.30E-01
5	8.90E-01	-0.305154608	5	2.94E+00
4	3.60E+00	-0.88106162	4	1.99E+01
7	3.30E+00	0.029211928	7	7.85E-01
1	3.69E-01	0.138274855	1	4.50E-01
5	2.60E-04	1	5	5.33E-03
11	5.82E-06	0.713638588	11	5.64E-03
3	1.55E-03	0.942075375	3	3.43E-02
4	2.30E-03	3	4	5.27E-06
10	1.85E-01	0.595659176	10	1.77E-02
4	2.26E+02	0.749215662	4	4.53E-02
5	9.88E-01	0.083984416	5	5.57E-01
22	4.80E-03	0.29416535	22	4.97E-02

6	1.24E+00	0.126643038	6	4.65E-01
1	5.51E-01	-0.012274843	1	6.18E-01
14	8.56E-01	-0.349921237	14	3.69E+01
91	1.28E+10	0.050224629	91	2.61E+01
6	5.66E-05	1	6	2.59E-03
5	1.09E-01	1	5	7.44E-03
11	3.13E+00	0.316203122	11	1.12E-01
10	5.57E-02	0.924670895	10	1.77E-03
5	6.62E-04	1	5	3.05E-03
3	3.87E-04	2	3	1.96E-03
8	1.06E-01	0.463280344	8	6.39E-02
5	2.04E-01	0.181778203	5	3.67E-01
1	5.62E-01	-0.602524007	1	2.14E+00
3	1.29E+01	1	3	7.35E-03
29	1.69E-06	0.687713233	29	2.96E-05
20	8.25E+02	-0.969950623	20	3.86E+05
2	1.13E-01	-0.1180449	2	8.83E-01
29	1.26E-06	0.380115958	29	6.03E-03
9	1.65E-02	0.141037427	9	4.26E-01
13	4.68E+01	-0.378732075	13	3.65E+01
54	8.47E-06	0.943222578	54	5.80E-12
10	2.47E-02	0.870423489	10	2.59E-03
3	5.28E-01	0.013651964	3	6.63E-01
11	3.03E+03	0.102101041	11	5.64E-01
12	8.19E+01	-0.327789429	12	1.84E+01
8	1.77E+02	-0.833894771	8	1.35E+02
3	9.36E+00	-0.038733493	3	7.84E-01
13	8.40E+02	-0.00461618	13	1.46E+00
1	5.69E-01	-0.007796153	1	6.12E-01
6	1.57E+00	0.02580236	6	7.55E-01
9	2.70E+01	-0.481658458	9	2.35E+01
7	8.88E-01	0.12830321	7	4.61E-01
10	4.32E+01	-0.50651826	10	3.90E+01
8	9.79E+00	-0.036449197	8	1.22E+00
35	1.72E+08	-0.377937784	35	1.54E+04
34	3.32E-01	-0.196353777	34	3.10E+02
9	2.89E+02	0.020592966	9	9.25E-01
13	8.16E+01	-0.701748528	13	5.90E+02
5	1.26E-02	0.005029194	5	7.80E-01
6	1.43E-01	0.050308379	6	6.71E-01
7	1.65E-02	0.451093801	7	8.18E-02
46	1.46E+00	-0.445718768	46	1.92E+06
4	9.25E-02	-0.660979086	4	8.77E+00
3	9.41E-03	-0.158288912	3	1.15E+00
3	1.38E-03	0.648893388	3	8.74E-02
7	3.68E-01	0.151297872	7	4.08E-01
8	8.64E-01	0.425753575	8	7.98E-02

12	9.41E-03	-0.157545337	12	4.65E+00
9	2.28E-01	0.417629655	9	7.16E-02
10	2.20E+01	-0.435454517	10	2.37E+01
17	7.13E-02	-0.167448983	17	1.13E+01
15	2.07E+00	-0.187859008	15	9.95E+00
4	8.59E-01	0	4	7.43E-01
8	3.73E-02	-0.021141366	8	1.12E+00
44	1.08E+00	-0.504406436	44	4.58E+06
25	1.10E-01	-0.184619362	25	5.30E+01
11	3.84E-02	-0.270917685	11	9.34E+00
8	3.87E-05	0.212831407	8	2.80E-01
10	1.32E-02	0.019997054	10	9.85E-01
4	2.09E+00	-0.53413921	4	5.46E+00
9	2.82E-01	-1	9	1.17E+03
17	2.18E-04	-0.119947274	17	6.75E+00
6	2.21E-01	-0.248679818	6	2.83E+00
5	4.61E-01	-0.063651384	5	1.05E+00
20	2.28E+00	-0.017586003	20	2.85E+00
12	4.05E+00	-0.064897457	12	2.20E+00
9	2.15E+00	-0.251592011	9	5.34E+00
54	2.39E+03	-0.277188021	54	1.29E+05
6	1.86E+00	0.771000193	6	2.08E-02
7	1.58E-01	1	7	1.37E-03
20	3.87E-02	0.231225085	20	1.30E-01
2	5.70E-01	0.03041803	2	5.96E-01
13	2.46E+03	-0.938731944	13	4.54E+03
11	2.15E+01	0.3888506	11	6.51E-02
12	1.46E-01	0.918029002	12	7.90E-04
8	9.80E+00	0.290702161	8	1.77E-01
8	4.51E-02	-0.692178437	8	5.85E+01
13	2.57E-04	-0.480398296	13	8.76E+01
1	2.14E-01	-0.574100991	1	2.02E+00
8	6.90E+02	-1	8	1.04E+03
6	1.03E+01	-0.290449994	6	3.47E+00
12	9.36E-01	-0.496187044	12	7.15E+01
12	5.70E+00	0.003848934	12	1.26E+00
10	6.30E+02	0.501627855	10	3.41E-02
6	1.70E+02	-0.831695912	6	4.70E+01
8	1.17E+05	-0.322980108	8	6.62E+00
17	3.39E+02	-0.502520358	17	4.18E+02
6	1.54E-02	-0.821324496	6	4.47E+01
7	2.94E-03	-1	7	6.36E+02
7	7.04E-02	-0.528546771	7	1.56E+01
50	3.44E+07	0.648884837	50	1.57E-07
2	7.00E+01	1	2	1.24E-02
6	1.16E+01	1	6	5.47E-03
8	1.09E+01	-1	8	7.00E+02

10	1.55E+02	-0.258245033	10	6.88E+00
7	2.85E+00	1	7	1.66E-03
12	4.70E+00	0.476229225	12	2.79E-02
1	4.64E-01	0.014097206	1	5.84E-01
33	3.17E-03	0.06435958	33	1.63E+00
14	1.83E-01	2	14	2.89E-08
24	3.06E-02	0.038889506	24	1.72E+00
9	3.98E-01	-0.060707576	9	1.56E+00
5	7.21E+01	-0.61750994	5	1.12E+01
18	4.03E+02	0.632821414	18	1.54E-03
7	1.44E-01	0.387394785	7	1.15E-01
2	1.23E-01	0.557820005	2	1.47E-01
7	1.05E+00	0.26021914	7	2.27E-01
12	3.17E+00	0.644560808	12	7.18E-03
2	8.43E-01	0.647882429	2	1.16E-01
16	1.56E+01	-0.018436616	16	2.09E+00
19	3.42E+00	0.247871689	19	1.13E-01
23	2.32E+00	0.385505457	23	1.26E-02
17	8.32E+02	0.921926766	17	8.93E-05
9	4.53E+01	0.382596641	9	8.97E-02
10	1.99E+02	0.789662401	10	4.55E-03
9	5.15E-01	0.607818912	9	2.10E-02
7	1.63E-02	0.038742021	7	7.46E-01
7	2.16E-03	-0.41682952	7	8.57E+00
20	1.06E-04	-0.026032687	20	3.16E+00
9	8.57E-01	-0.295613621	9	7.10E+00
18	2.52E+05	-0.968688673	18	1.15E+05
13	4.09E-01	1	13	1.16E-04
32	7.51E+09	-0.70900098	32	3.54E+06
29	6.90E+05	-0.146316995	29	5.40E+01
27	2.06E+00	0.058378322	27	1.45E+00
9	1.62E-01	0.033633853	9	8.50E-01
7	1.49E+00	0.374234908	7	1.23E-01
14	8.04E-01	-0.080737931	14	3.14E+00
15	1.65E+02	-0.25303022	15	1.87E+01
11	1.81E+04	-0.088639554	11	2.37E+00
23	7.41E+01	0.181505187	23	2.21E-01
46	1.59E-01	-0.239381787	46	8.10E+03
16	8.49E+01	0.200983718	16	2.21E-01
5	1.36E-01	0.014597282	5	7.49E-01
80	1.87E-03	0.212330838	80	1.11E-02
6	3.52E-02	-0.088958935	6	1.31E+00
20	1.99E+06	0.234076644	20	1.25E-01
10	8.61E-01	0.239312421	10	2.13E-01
4	2.39E-01	-0.304053123	4	2.31E+00
7	1.69E+00	-1	7	4.96E+02
4	2.40E-01	-2	4	1.09E+03

5	9.92E+00	-0.449333246	5	5.44E+00
16	6.02E-01	0.046865845	16	1.07E+00
8	8.57E-02	-0.476870581	8	1.64E+01
4	2.12E-01	-0.557365536	4	5.95E+00
25	3.47E-04	0.648981856	25	1.78E-04
6	7.57E-06	0.30124073	6	2.00E-01
43	2.18E-12	0.753695691	43	8.28E-08
2	1.83E-01	0.61076231	2	1.28E-01
4	1.76E-02	-0.301290934	4	2.29E+00
4	7.20E-03	-0.804631273	4	1.50E+01
4	1.65E-02	-0.209259061	4	1.62E+00
17	1.07E+02	0.353225383	17	4.11E-02
7	2.29E+03	-1	7	9.13E+02
4	1.87E+01	-0.906791954	4	2.19E+01
2	4.00E+00	-1	2	1.09E+01
12	6.99E+00	-0.108562112	12	3.13E+00
7	2.19E+00	-0.069343657	7	1.33E+00
5	1.75E-01	-0.273363328	5	2.57E+00
9	4.46E-01	0.022279361	9	9.15E-01
14	1.69E-05	0.39292573	14	4.11E-02
6	1.52E-01	-0.130950606	6	1.61E+00
15	1.49E-03	-0.074633594	15	3.32E+00
6	6.04E-03	0.754183955	6	2.26E-02
5	1.48E-03	1	5	7.72E-03
36	3.45E-11	0.650231156	36	7.84E-06
8	2.54E-03	0.366881725	8	1.13E-01
2	1.66E-01	-0.094484393	2	8.29E-01
2	5.64E-01	0	2	6.46E-01
7	1.15E+00	0.941190522	7	5.91E-03
19	3.38E-02	0.240210496	19	1.23E-01
10	7.31E-02	0.458842463	10	4.59E-02
11	6.16E-02	0.386864863	11	6.60E-02
30	1.45E-06	0.716803782	30	1.30E-05
6	8.37E-02	0.190685598	6	3.41E-01
7	2.73E-01	1	7	3.34E-03
6	4.11E-03	1	6	2.36E-03
6	8.34E-01	0.837642897	6	1.51E-02
2	2.02E-01	-0.419962244	2	1.96E+00
30	1.35E+04	0.010386413	30	3.84E+00
8	6.41E+01	0.336735283	8	1.35E-01
3	5.93E-01	-0.006172483	3	7.07E-01
27	3.92E+10	-0.749817192	27	7.07E+05
20	5.70E+00	-0.208255396	20	3.03E+01
25	1.76E+02	0.404575999	25	7.17E-03
18	4.06E-05	0.697735644	18	7.36E-04
3	4.09E-02	2	3	3.74E-03
5	2.28E+01	0.908033013	5	1.64E-02

2	6.78E-01	-0.526228652	2	2.60E+00
17	3.83E+02	-1	17	1.13E+05
1	1.13E+00	-0.180523841	1	8.80E-01
27	1.52E+02	-0.445321121	27	5.09E+03
7	4.68E-02	0.193208969	7	3.26E-01
12	3.60E+00	1	12	2.97E-04
7	1.58E-02	-0.082446716	7	1.43E+00
15	2.21E+04	0.202673252	15	2.26E-01
10	2.62E+01	0.251910367	10	1.95E-01
4	1.40E+00	-0.673152832	4	9.17E+00
2	8.79E-01	-0.113292662	2	8.72E-01
32	5.08E+07	-0.135636904	32	6.92E+01
15	1.17E+08	-0.310713323	15	3.28E+01
8	9.35E-01	-0.216741084	8	3.54E+00
1	5.53E-01	-0.216643303	1	9.50E-01
49	1.59E-11	0.672299466	49	1.07E-07
4	1.08E-03	1	4	9.27E-03
7	5.27E+00	-0.000192382	7	9.19E-01
17	1.74E+03	1	17	4.05E-07
10	4.01E+00	-0.182074887	10	4.04E+00
24	1.42E+08	-0.300157693	24	2.41E+02
16	2.32E+04	-0.265877066	16	2.63E+01
8	2.60E-02	-1	8	4.96E+02
6	2.83E-03	-0.360441634	6	4.86E+00
68	1.79E-05	-0.333019453	68	2.41E+07
8	2.00E-01	-0.323137472	8	6.63E+00
4	1.67E-03	2	4	1.64E-03
18	6.22E-05	0.941115999	18	4.68E-05
9	2.90E+00	0.656726716	9	1.53E-02
5	1.09E-01	0.025119959	5	7.16E-01
8	3.97E-01	-0.546336367	8	2.47E+01
7	1.92E+00	-0.096167029	7	1.54E+00
6	1.18E+00	-0.158704926	6	1.84E+00
31	1.05E-03	0.163020633	31	2.48E-01
3	5.44E+00	-0.075731925	3	8.82E-01
5	2.68E-01	0.078860306	5	5.69E-01
13	6.34E-03	0.161785552	13	3.47E-01
12	6.13E-01	0.236583381	12	1.93E-01
19	4.93E-01	0.400402107	19	1.84E-02
13	5.41E+02	0.769723437	13	1.85E-03
3	2.67E-01	-0.264299177	3	1.61E+00
10	3.16E+00	-0.024715829	10	1.35E+00
11	2.92E-01	-0.215205984	11	6.14E+00
2	5.45E-01	-0.314424032	2	1.49E+00
8	6.15E-01	0.912536498	8	4.51E-03
10	5.52E-03	-0.432684439	10	2.33E+01
4	6.47E-02	0.94108632	4	2.21E-02

8	4.50E-03	0.571259172	8	3.38E-02
32	3.54E-05	0.464876645	32	8.07E-04
21	3.90E-03	0.864756067	21	3.36E-05
17	3.76E-08	2	17	1.09E-07
25	8.58E+01	-0.212964127	25	8.13E+01
6	4.63E+00	-0.239612546	6	2.71E+00
20	5.04E+02	-0.342067368	20	1.59E+02
3	1.17E+01	0.669366173	3	8.18E-02
12	2.12E+02	0.120954628	12	4.91E-01
6	3.12E-02	-0.03396955	6	1.01E+00
22	7.53E+00	-0.427376804	22	8.41E+02
28	9.99E+00	-0.087982112	28	1.75E+01
2	7.87E-01	0	2	6.46E-01
12	1.41E+01	-0.056802743	12	2.06E+00
17	2.75E+01	-0.829173056	17	1.41E+04
6	1.33E+01	-0.94852259	6	8.26E+01
17	6.05E-01	-0.115935173	17	6.47E+00
9	3.05E-02	-0.430335843	9	1.69E+01
14	2.23E+01	-0.685061247	14	7.94E+02
23	1.12E-02	0.491312046	23	2.86E-03
8	4.90E-03	-0.010533663	8	1.05E+00
10	2.17E-01	-0.381014542	10	1.62E+01
21	1.80E+01	0.471584371	21	5.47E-03
5	6.65E+00	1	5	3.21E-03
12	1.13E+01	0.070190058	12	7.40E-01
5	2.01E-01	-0.291901789	5	2.78E+00
9	2.31E-01	0.864218097	9	4.03E-03
15	1.64E-02	0.199734786	15	2.32E-01
4	4.59E-01	0.021840241	4	6.85E-01
1	9.80E-02	0.288559575	1	3.28E-01
7	3.51E-02	-0.773897799	7	5.81E+01
8	8.27E-10	0.75253439	8	1.16E-02
8	1.14E-02	0.679554448	8	1.78E-02
8	7.87E-01	-0.180339384	8	2.85E+00
7	7.10E-01	-0.035737857	7	1.11E+00
5	3.38E-01	0.143278938	5	4.32E-01
6	2.10E-02	0.647886288	6	3.77E-02
15	4.36E-02	-0.226155008	15	1.44E+01
11	5.89E-02	0.61106005	11	1.22E-02
1	2.82E-01	1	1	4.01E-02
8	9.27E-06	0.782780098	8	9.70E-03
5	3.25E-02	0.683014082	5	4.30E-02
12	3.18E-01	0.207040206	12	2.45E-01
21	2.86E+03	-0.429183794	21	6.36E+02
24	1.02E+01	0.264139134	24	6.45E-02
5	1.23E+00	0.193501775	5	3.49E-01
18	5.65E+02	-0.591046106	18	1.60E+03

12	6.99E-04	0.676784718	12	5.53E-03
38	4.09E-04	0.829430123	38	8.39E-08
63	4.38E+05	-0.305593565	63	2.59E+06
8	9.16E-03	-0.080658233	8	1.58E+00
12	5.15E+01	-1	12	2.27E+05
10	5.53E+03	-0.733433989	10	1.90E+02
9	3.69E+00	-0.196081419	9	3.74E+00
1	6.84E-01	0	1	6.02E-01
4	7.31E-01	-0.093094728	4	1.05E+00
2	3.63E-01	0.432919377	2	2.05E-01
2	7.18E-02	0.041455111	2	5.79E-01
6	7.24E-01	-0.000924974	6	8.59E-01
7	1.28E+00	-0.244775509	7	3.41E+00
17	3.14E-06	-0.0653429	17	3.75E+00
23	3.51E+00	-0.347423313	23	3.70E+02
23	2.30E-01	-0.074257815	23	8.01E+00
10	6.30E+00	-0.17145531	10	3.75E+00
31	4.64E-01	-0.626150599	31	4.91E+05
11	6.83E+00	-0.503229569	11	5.37E+01
4	2.32E+01	-0.746736956	4	1.21E+01
6	7.41E-01	0.503483141	6	7.56E-02
5	6.09E-01	-0.118466774	5	1.32E+00
30	4.71E-05	0.296448804	30	2.34E-02
9	6.80E-02	-0.095977277	9	1.96E+00
4	3.15E-02	-0.235159716	4	1.79E+00
3	4.33E-01	-0.075563793	3	8.82E-01
17	6.54E-04	0.03528546	17	1.27E+00
12	2.38E+03	-0.030741672	12	1.67E+00
9	1.23E-03	0.160430397	9	3.76E-01
11	2.94E-03	0.300828825	11	1.26E-01
11	4.94E-03	0.005785792	11	1.16E+00
5	3.23E-05	0.994241013	5	1.14E-02
9	2.14E-03	0.162385328	9	3.71E-01
6	7.15E-04	-0.571860425	6	1.34E+01
19	4.09E-02	-0.220413401	19	2.92E+01
7	1.51E-01	-0.009451704	7	9.65E-01
5	1.47E-01	0.32003865	5	2.03E-01
30	3.04E-04	0.52825281	30	3.75E-04
13	2.12E-03	1	13	1.21E-05
3	2.87E-01	0.026730169	3	6.36E-01
6	6.09E-02	-1	6	1.22E+02
3	9.66E-03	1	3	1.33E-02
9	1.35E-02	-0.413662677	9	1.52E+01
4	8.71E-01	-0.407648362	4	3.40E+00
6	5.35E-01	-0.438802566	6	7.08E+00
5	1.59E-01	-0.693573929	5	1.55E+01
5	3.83E+00	0.322032254	5	2.01E-01

3	6.52E-03	-0.134145938	3	1.06E+00
6	6.89E-04	0.561403838	6	5.72E-02
4	5.85E-01	0.078869366	4	5.54E-01
16	1.06E-05	0.609815068	16	3.35E-03
17	2.62E-01	0.865356982	17	1.64E-04
20	1.10E-16	2	20	1.34E-13
4	1.59E-04	0.369703943	4	1.87E-01
4	1.40E-03	0.080165033	4	5.51E-01
8	4.45E-01	0.70851789	8	1.50E-02
3	1.33E+00	-0.073000047	3	8.74E-01
4	1.88E+01	-0.581606289	4	6.52E+00
5	6.50E+01	-0.796568384	5	2.40E+01
8	1.92E-02	-0.669047546	8	5.11E+01
17	9.27E-05	0.000892935	17	1.84E+00
6	6.42E-03	0.623388436	6	4.24E-02
10	2.17E-05	0.358115263	10	9.28E-02
7	3.53E-04	2	7	3.99E-06
1	5.38E-01	0.146184416	1	4.42E-01
8	1.08E-02	-0.523945001	8	2.17E+01
6	5.38E-02	-0.111637234	6	1.46E+00
8	2.58E-03	0.602129268	8	2.82E-02
9	2.72E-02	0.32012102	9	1.34E-01
11	7.42E-05	0.04662112	11	8.56E-01
27	3.07E-02	0.128380329	27	4.67E-01
12	1.78E+00	-0.223973934	12	7.95E+00
3	7.51E-01	-0.011914652	3	7.20E-01
6	1.20E-01	-0.297361451	6	3.58E+00
8	3.27E-02	1	8	9.29E-04
16	2.00E-04	1	16	4.37E-06
5	4.88E-03	2	5	2.79E-04
10	2.41E-08	0.857350313	10	2.84E-03
2	5.73E-02	1	2	2.96E-02
21	5.42E-04	0.950381331	21	1.11E-05
5	2.80E-01	2	5	3.01E-04
9	8.16E-04	-0.939719315	9	4.50E+02
8	5.85E-02	-0.091033624	8	1.68E+00
2	6.31E-02	-0.135387267	2	9.24E-01
9	1.43E+03	-0.857208337	9	2.65E+02
2	3.76E+00	-0.046751739	2	7.31E-01
41	2.43E-03	-0.495033317	41	1.31E+06
6	3.61E+01	-1	6	7.49E+02
6	8.35E-01	-0.012038625	6	9.06E-01
1	2.80E-01	0.444294521	1	2.36E-01
5	2.77E-01	0.775124528	5	2.90E-02
12	2.84E-02	0.557679281	12	1.45E-02
11	3.75E-01	0.244621645	11	1.93E-01
7	2.41E+00	-0.16202936	7	2.19E+00

4	1.73E+01	-0.245851237	4	1.86E+00
8	1.05E+04	-1	8	4.15E+02
6	6.68E+00	-0.123227542	6	1.55E+00
16	2.22E-05	0.11922128	16	5.10E-01
15	3.37E-03	0.092075161	15	6.59E-01
11	1.63E+01	2	11	9.00E-08
3	9.73E-01	0.150897646	3	4.28E-01
1	5.11E-01	0.030640873	1	5.64E-01
5	5.77E-01	-0.000893994	5	8.00E-01
4	9.54E-01	-0.259692794	4	1.96E+00
5	1.77E+00	-0.252069237	5	2.34E+00
8	5.35E+01	-0.437281765	8	1.30E+01
6	2.02E+02	-0.442522177	6	7.21E+00
6	3.97E-01	-0.252543623	6	2.89E+00
12	2.82E+01	0.294979797	12	1.21E-01
15	2.68E+01	0.828450158	15	5.22E-04
9	1.74E-03	0.173070271	9	3.46E-01
2	6.35E-01	-0.083503377	2	8.06E-01
2	2.64E+00	-0.965148145	2	8.33E+00
55	3.40E-04	0.010007373	55	1.96E+01
11	5.46E-01	-0.745807289	11	3.34E+02
3	6.59E-01	-0.114874169	3	1.00E+00
8	2.54E-02	-0.014195086	8	1.07E+00
4	1.11E+00	0.441736907	4	1.43E-01
12	4.56E-01	0.433183389	12	3.95E-02
6	5.60E+00	0.094782837	6	5.42E-01
61	1.59E+01	0.441985875	61	9.17E-06
25	1.01E-03	0.288236539	25	4.16E-02
1	5.27E-01	-0.869228601	1	3.76E+00
3	5.15E-01	-0.186204849	3	1.26E+00
3	3.30E-01	0.683280936	3	7.83E-02
7	4.24E-01	0.519698663	7	5.66E-02
19	4.01E+03	1	19	4.65E-06
1	7.43E-01	0.479252123	1	2.19E-01
3	1.20E+00	-0.102852079	3	9.62E-01
17	5.17E-03	0.339709057	17	4.76E-02
10	2.16E+00	-0.204747842	10	4.74E+00
6	1.02E+00	-0.075317222	6	1.23E+00
19	2.46E-11	0.046511671	19	1.23E+00
19	1.79E+00	0.370748399	19	2.62E-02
37	1.14E+00	0.387136096	37	1.75E-03
11	4.26E-01	0.140493245	11	4.22E-01
4	3.37E+00	-0.408715837	4	3.42E+00
11	3.23E-01	-0.047077761	11	1.73E+00
12	8.25E+01	0.201219892	12	2.57E-01
3	1.55E+00	-0.015011209	3	7.27E-01
9	5.81E+04	-0.409122388	9	1.47E+01

12	3.47E+03	-0.844587548	12	1.19E+03
18	1.21E-02	-0.279227862	18	4.69E+01
53	9.47E+04	-0.062941306	53	1.57E+02
8	5.73E+01	0.146238554	8	4.15E-01
9	1.36E-02	-0.117109961	9	2.25E+00
7	8.64E-02	-0.051785646	7	1.21E+00
7	2.33E-01	-0.188485674	7	2.52E+00
10	1.62E+02	-0.897830419	10	6.00E+02
8	3.09E+00	0.03236042	8	8.13E-01
9	2.96E+00	-0.314997861	9	8.04E+00
7	2.98E-02	-0.502246737	7	1.35E+01
4	7.21E-01	-0.100395039	4	1.08E+00
19	1.47E+03	-0.895492	19	8.78E+04
10	9.26E+01	-0.501349717	10	3.76E+01
2	4.25E-01	-0.010515765	2	6.64E-01
13	1.08E+03	-0.694769576	13	5.55E+02
4	8.22E-02	-1	4	3.86E+01
8	8.82E-01	0.073141328	8	6.39E-01
3	1.04E+00	-0.029398292	3	7.61E-01
17	3.43E+01	-0.640107444	17	1.84E+03
6	3.12E-02	-0.4936377	6	9.23E+00
10	2.61E+00	-0.478749743	10	3.21E+01
9	4.03E-03	0.774410946	9	7.18E-03
11	1.16E+01	-0.599072104	11	1.11E+02
8	1.58E+00	0.037494097	8	7.89E-01
5	6.23E-01	0.728492394	5	3.54E-02
4	2.11E-02	1	4	8.08E-03
2	7.16E-02	0.334345617	2	2.66E-01
8	6.27E-01	-0.119613698	8	1.99E+00
13	7.17E+00	0.504649754	13	1.81E-02
7	6.89E+00	-0.262947359	7	3.76E+00
3	3.13E-01	-0.519343838	3	3.63E+00
5	2.83E-02	-0.223251601	5	2.07E+00
14	7.55E-03	0.13004644	14	4.56E-01
13	4.06E-03	0.735653084	13	2.48E-03
29	7.53E-04	0.595358731	29	1.46E-04
6	3.98E-01	-0.179794937	6	2.03E+00
28	7.10E+01	0.272377135	28	4.20E-02
18	8.69E-03	0.238951122	18	1.33E-01
10	1.13E-04	-0.122754048	10	2.67E+00
3	2.00E-01	-0.418960453	3	2.64E+00
3	6.41E+00	-0.616843439	3	4.96E+00
9	1.03E+00	-0.44361243	9	1.84E+01
7	4.78E-01	-0.188980304	7	2.53E+00
5	2.72E-01	0.000744717	5	7.95E-01
15	3.01E-06	0.34798138	15	5.51E-02
4	7.61E-01	-0.125595669	4	1.19E+00

5	3.31E-01	0.232817171	5	2.95E-01
15	3.15E-04	0.823775432	15	5.46E-04
13	2.56E+02	-0.06976347	13	2.55E+00
9	1.51E+02	-1	9	4.12E+03
6	4.47E+00	-0.721827791	6	2.77E+01
24	7.34E+00	-0.451020081	24	2.17E+03
2	2.06E-01	-0.079911993	2	7.98E-01
3	8.82E-01	-0.069441767	3	8.65E-01
20	4.19E-02	-0.52213453	20	1.49E+03
2	6.60E-01	-0.087734011	2	8.15E-01
5	1.53E+00	-0.285914883	5	2.71E+00
4	1.35E+00	-0.373980671	4	3.00E+00
5	1.44E-01	-1	5	2.51E+02
9	2.08E-03	-0.074958052	9	1.71E+00
14	4.51E-05	-0.110790446	14	4.14E+00
1	3.88E-02	-0.130611424	1	7.93E-01
13	3.26E+00	1	13	1.85E-04
5	2.28E+00	2	5	1.02E-03
2	9.74E-01	0.688041558	2	1.04E-01
5	4.30E+00	0.671621626	5	4.51E-02
9	1.35E-01	-0.044092121	9	1.40E+00
10	3.22E-01	0.451042331	10	4.85E-02
3	1.18E-01	2	3	2.35E-03
4	6.30E-01	2	4	2.29E-03
16	1.63E-05	1	16	1.87E-06
24	1.89E+00	0.097960468	24	7.27E-01
26	2.16E-03	0.034911489	26	2.02E+00
5	2.20E-01	0.654562958	5	4.86E-02
7	7.56E-01	0.120070815	7	4.82E-01
3	6.38E-02	-0.571072883	3	4.29E+00
25	1.84E-07	-1	25	3.26E+07
24	3.26E-06	0.374263522	24	1.29E-02
13	6.82E-11	1	13	2.32E-05
11	6.46E-04	-0.333946284	11	1.50E+01
6	4.07E-05	3	6	2.58E-06
3	9.96E-04	3	3	1.79E-04
30	2.01E-10	0.408634379	30	3.17E-03
6	3.80E-03	0.99913411	6	6.94E-03
16	2.80E-03	0.251543086	16	1.31E-01
15	3.12E-05	-0.464596638	15	1.46E+02
5	1.75E+01	-0.090467618	5	1.17E+00
57	1.95E-07	-0.088831232	57	5.51E+02
12	8.25E-07	0.001893231	12	1.28E+00
9	2.00E-06	4	9	6.57E-11
18	1.89E-05	0.056890134	18	1.04E+00
10	3.52E+01	0.420527445	10	6.00E-02
10	5.13E+03	0.439550121	10	5.26E-02

14	1.87E+02	-0.283653083	14	2.01E+01
9	2.83E-01	1	9	9.72E-04
7	2.87E-02	0.438164816	7	8.76E-02
19	7.50E+12	-0.033972052	19	3.19E+00
19	5.89E+00	0.741106089	19	3.23E-04
6	3.65E+00	0.538099839	6	6.40E-02
11	7.50E+05	-0.94035158	11	1.44E+03
13	3.12E+04	-0.666544385	13	4.36E+02
25	5.73E+01	-0.801879639	25	5.99E+05
10	2.52E-04	-0.091709176	10	2.15E+00
7	2.12E-01	-0.132044352	7	1.86E+00
32	3.42E+00	0.207479869	32	1.05E-01
6	1.18E+00	0.192263256	6	3.39E-01
10	3.37E+00	0.551477698	10	2.40E-02
15	5.77E+01	0.005997231	15	1.52E+00
1	5.76E-01	0.055520385	1	5.35E-01
4	8.20E+00	0.086872543	4	5.37E-01
7	2.01E-02	0.176377931	7	3.57E-01
15	2.25E+00	0.345375221	15	5.65E-02
9	5.34E+02	-0.527993299	9	3.17E+01
6	7.08E-01	-0.0084402	6	8.91E-01
5	7.72E-01	-0.156291258	5	1.56E+00
15	5.06E+00	-0.186922336	15	9.86E+00
4	4.09E+00	0.298317765	4	2.44E-01
12	8.55E-01	-0.609147917	12	1.78E+02
18	3.94E+02	0.311332016	18	5.85E-02
9	5.53E-04	0.176061389	9	3.40E-01
4	3.54E-01	-0.766785931	4	1.30E+01
4	3.07E-01	0.428688576	4	1.50E-01
4	1.12E-01	-0.014280863	4	7.84E-01
12	2.06E+00	0.887049765	12	1.01E-03
20	6.34E-01	-0.410353831	20	3.72E+02
21	2.68E+02	-0.205256534	21	3.50E+01
31	5.35E-03	0.425216319	31	2.01E-03
21	5.08E-03	1	21	1.75E-07
29	2.62E-02	0.466285301	29	1.36E-03
21	3.68E-05	-0.37673695	21	3.23E+02
3	6.24E-01	-0.010886383	3	7.17E-01
2	1.01E+00	-0.139688631	2	9.35E-01
9	1.36E+00	1	9	1.53E-04
15	4.11E-02	0.140853809	15	4.11E-01
8	1.38E+01	-0.20851044	8	3.37E+00
9	2.45E+02	-0.778927367	9	1.60E+02
13	1.63E+02	-0.247959524	13	1.18E+01
14	5.14E+01	-0.875949949	14	4.56E+03
5	1.31E-02	1	5	3.61E-03
16	9.76E+01	0.878166997	16	2.15E-04

4	1.66E-02	0.347804624	4	2.03E-01
16	7.80E-02	0.601485336	16	3.65E-03
14	1.26E-01	0.273372853	14	1.23E-01
3	4.46E-01	0.374306392	3	2.10E-01
11	7.33E-01	0.149497268	11	3.94E-01
2	8.94E-01	-0.118140713	2	8.83E-01
8	4.76E+00	-0.533211094	8	2.29E+01
6	1.21E-02	-0.174752156	6	1.99E+00
6	7.39E+00	0.157866865	6	4.00E-01
8	1.28E+03	-0.268606718	8	4.80E+00
15	1.07E+04	-0.529581561	15	2.74E+02
2	2.06E-02	0.182752836	2	3.98E-01
18	4.23E-05	0.364616904	18	3.20E-02
4	1.43E+01	0.27454235	4	2.67E-01
11	7.61E-01	-0.49961778	11	5.23E+01
24	1.86E-01	-0.371649155	24	6.83E+02
12	3.23E-01	-0.190640879	12	6.07E+00
15	2.97E-03	1	15	3.24E-05
6	1.16E+02	-1	6	1.24E+02
15	5.05E+01	0.127588605	15	4.67E-01
6	5.31E+00	0.25699284	6	2.48E-01
9	7.11E+03	0.949748509	9	2.32E-03
6	1.77E+00	1	6	2.85E-03
5	1.37E+00	-0.033026881	5	9.18E-01
9	4.42E+00	0.591301007	9	2.34E-02
7	5.76E-01	-0.313300703	7	4.92E+00
15	6.88E-01	-0.326711711	15	3.83E+01
11	1.44E+00	-0.397570954	11	2.42E+01
9	1.14E+01	-1	9	6.57E+03
4	1.60E-01	-0.05522589	4	9.13E-01
9	2.57E-02	-0.127627418	9	2.40E+00
4	3.05E-01	-0.432847144	4	3.74E+00
5	6.33E-01	0.480112273	5	1.02E-01
24	1.39E+01	-0.251384919	24	1.18E+02
5	8.90E-01	-0.415379027	5	4.71E+00
12	5.29E-04	0.603192269	12	1.00E-02
7	4.47E-01	0.793391597	7	1.31E-02
21	1.25E+04	-0.547397253	21	2.94E+03
3	5.60E-01	0.109497918	3	4.88E-01
18	6.87E-02	-0.947041393	18	9.03E+04
17	2.26E+00	-0.46854225	17	2.90E+02
6	6.50E-01	-0.762729691	6	3.37E+01
4	2.58E-03	0.638560259	4	6.85E-02
12	1.36E-04	1	12	9.95E-06
9	2.03E+00	0.317050483	9	1.37E-01
20	9.01E+07	0.024683096	20	1.68E+00
14	1.71E+05	-1	14	2.12E+05

50	1.38E+29	-1	50	1.93E+18
18	9.25E+03	-0.880661659	18	4.26E+04
16	7.52E-03	-0.19593996	16	1.28E+01
5	2.63E-04	3	5	7.68E-06
4	1.36E-04	2	4	1.90E-03
9	8.25E-08	0.077112253	9	6.43E-01
5	1.25E-03	-0.14511116	5	1.48E+00
6	2.20E+00	-1	6	5.71E+02
7	1.45E+04	-0.029990618	7	1.08E+00
7	1.73E-02	-0.434597178	7	9.43E+00
3	3.07E-01	-0.365595451	3	2.22E+00
11	1.63E+00	-0.417358108	11	2.81E+01
3	6.07E-03	1	3	1.52E-02
9	1.55E+00	0.209593079	9	2.74E-01
5	1.25E-02	-0.00670323	5	8.20E-01
5	9.26E-02	0.019688485	5	7.33E-01
1	1.06E-01	-0.028846715	1	6.40E-01
5	1.22E-01	0.135918032	5	4.46E-01
9	3.47E-01	-0.393354299	9	1.33E+01
4	7.12E-01	0.601133245	4	7.88E-02
4	8.30E-01	0.270696031	4	2.71E-01
6	8.49E-04	-0.551194897	6	1.22E+01
8	1.16E-03	-0.525110122	8	2.18E+01
5	5.01E-01	-0.184306873	5	1.75E+00
22	7.44E-10	0.493565758	22	3.38E-03
6	1.83E-04	0.838631617	6	1.50E-02
9	3.77E+01	0.895974077	9	3.28E-03
10	2.95E-01	0.841562713	10	3.17E-03
12	7.43E+00	-0.828651357	12	1.05E+03
7	3.10E+01	0.161296136	7	3.87E-01
3	5.85E-01	-0.016152585	3	7.29E-01
42	2.06E-14	0.063952944	42	2.26E+00
32	3.05E-06	-2	32	1.36E+14
17	3.29E+00	-1	17	4.15E+06
4	9.79E-01	-0.840759648	4	1.72E+01
20	1.05E-04	-0.243122739	20	4.67E+01
2	6.71E-01	-0.154373166	2	9.72E-01
4	6.17E+00	-0.554763728	4	5.90E+00
5	3.15E+01	0.232786341	5	2.95E-01
7	3.49E+00	-0.155247753	7	2.11E+00
93	7.68E-36	0.321022943	93	2.19E-05
13	7.58E+00	-0.013768116	13	1.58E+00
18	6.18E+02	0.050640597	18	1.12E+00
23	7.44E-05	0.385660153	23	1.26E-02
15	2.51E-01	0.43479097	15	2.38E-02
11	2.67E+01	-0.408804193	11	2.64E+01
11	1.27E+03	-0.207724687	11	5.81E+00

36	2.17E+01	0.184813171	36	1.43E-01
4	3.87E+00	-0.510349484	4	5.00E+00
7	5.16E-04	1	7	3.39E-03
31	2.17E-12	0.369716295	31	5.56E-03
13	3.85E+01	-0.24853124	13	1.19E+01
3	5.00E-01	-0.851594633	3	1.05E+01
7	8.33E-02	-0.013821171	7	9.88E-01
3	2.90E+00	0.341686197	3	2.33E-01
3	6.19E-01	-0.223261506	3	1.41E+00
13	4.39E-09	0.443013354	13	3.08E-02
14	1.32E+01	-0.729879636	14	1.20E+03
13	8.06E-02	-0.0547942	13	2.24E+00
20	2.10E-06	0.39863292	20	1.63E-02
2	8.29E-01	-0.251138419	2	1.26E+00
20	1.17E+03	-1	20	1.20E+06
5	6.09E-02	0.646444077	5	5.03E-02
13	8.41E-05	0.668384481	13	4.42E-03
15	6.15E+01	0.799748104	15	6.90E-04
14	9.65E-01	-0.566144622	14	2.67E+02
11	9.77E-03	-0.186819947	11	4.96E+00
3	1.05E+00	-0.24878391	3	1.53E+00
3	1.46E-02	0.293821216	3	2.71E-01
7	1.27E-01	-0.173912064	7	2.33E+00
22	4.98E+00	-0.886795909	22	4.14E+05
6	7.06E-01	0.062796697	6	6.32E-01
3	1.01E-01	-0.459858498	3	3.01E+00
14	9.37E-04	0.219704011	14	2.01E-01
25	2.55E-03	1	25	3.66E-07
21	8.01E+03	1	21	5.59E-06
100	2.15E+33	-0.730924202	100	3.22E+20
25	1.59E-01	0.42670209	25	5.13E-03
6	1.97E-02	0.488456809	6	8.13E-02
7	7.91E+02	0.559689051	7	4.57E-02
29	6.80E+03	0.613019208	29	1.08E-04
26	7.72E+01	-0.567989785	26	2.55E+04
7	7.80E-02	0.468470706	7	7.45E-02
13	1.23E+02	-1	13	1.30E+05
7	3.14E-01	-0.376659781	7	6.91E+00
11	7.50E-03	-0.034627297	11	1.58E+00
11	2.48E+00	-0.334477271	11	1.51E+01
14	5.85E-02	0.244735233	14	1.60E-01
27	3.47E-03	-0.031118396	27	6.19E+00
13	1.68E-02	0.095272032	13	6.16E-01
4	3.24E-02	-0.191004555	4	1.52E+00
12	5.95E+01	0.04167717	12	9.32E-01
2	5.33E+00	-0.749088181	2	4.70E+00
6	7.13E+00	-0.922046662	6	7.27E+01

2	1.79E-01	0.52211716	2	1.62E-01
5	1.17E-01	-0.080586306	5	1.13E+00
10	2.54E-03	-0.41839565	10	2.11E+01
11	2.47E-05	0.989580987	11	7.07E-04
1	7.76E-02	-0.005645187	1	6.09E-01
3	5.86E-01	0.544724954	3	1.22E-01
8	8.50E-01	0.097731939	8	5.53E-01
10	1.00E-04	2	10	7.23E-06
3	5.10E-02	0.058313923	3	5.75E-01
25	4.05E+01	0.512182159	25	1.41E-03
4	3.74E+00	-0.883263893	4	2.01E+01
16	1.35E-04	0.903190262	16	1.66E-04
17	6.55E-07	0.14976468	17	3.69E-01
21	1.12E+00	0	21	2.45E+00
3	1.33E-02	-0.501492177	3	3.43E+00
21	4.45E+01	-0.152861634	21	1.78E+01
10	5.78E+02	-1	10	5.61E+03
4	2.14E+01	0.319479955	4	2.25E-01
15	1.11E+03	-0.862887589	15	6.93E+03
4	2.97E+01	-1	4	4.10E+01
19	1.24E+01	-0.563497277	19	1.71E+03
22	1.76E-02	-0.412338892	22	6.86E+02
13	6.24E+00	-1	13	9.81E+03
6	3.85E-02	0.132199307	6	4.52E-01
10	1.76E-02	0.275435016	10	1.65E-01
23	1.71E-03	0.384167462	23	1.29E-02
5	1.11E-01	0.052709731	5	6.36E-01
14	1.01E-01	0.551180408	14	9.66E-03
17	1.30E-05	0.955848147	17	6.20E-05
10	1.54E+00	1	10	2.79E-04
6	2.00E-01	-0.761961909	6	3.36E+01
23	4.87E+03	0.431860979	23	6.59E-03
2	1.84E+00	0.398784798	2	2.25E-01
16	8.03E+02	-0.526001367	16	3.77E+02
6	4.97E-01	-0.637214985	6	1.84E+01
19	1.76E+01	0.336548133	19	3.93E-02
14	1.30E+01	-0.212290904	14	1.05E+01
5	4.39E-01	-0.198420721	5	1.86E+00
23	4.91E+00	0.136493188	23	4.16E-01
9	5.24E-01	0.217363128	9	2.60E-01
37	3.93E-01	-0.083219172	37	4.57E+01
42	3.29E+05	0.071299001	42	1.89E+00
7	4.53E-01	0.03845497	7	7.47E-01
5	1.65E+00	-0.134204909	5	1.42E+00
11	1.44E+01	0.647852517	11	9.26E-03
2	8.30E-01	0.430090459	2	2.07E-01
5	1.60E+00	-0.123290566	5	1.35E+00

10	4.05E+00	-0.850546969	10	4.31E+02
22	3.83E-05	-0.294478943	22	1.40E+02
13	3.36E+03	-1	13	3.51E+05
8	1.73E+01	-1	8	5.02E+02
4	1.95E+00	-0.793215875	4	1.44E+01
39	2.59E-02	0.30562838	39	8.42E-03
6	1.74E-01	0.7877914	6	1.92E-02
18	5.57E+03	-0.089808164	18	5.50E+00
15	1.56E+02	-0.510249891	15	2.27E+02
25	1.68E+02	-0.331456975	25	4.88E+02
2	3.39E-01	-0.163328661	2	9.95E-01
23	3.61E+05	-0.943898197	23	1.60E+06
10	1.10E+01	-1	10	1.53E+04
14	1.49E+04	-2	14	4.09E+06
7	2.63E-01	0.512370223	7	5.89E-02
17	1.50E-02	0.897688256	17	1.16E-04
4	9.95E-02	1	4	1.67E-02
6	3.89E-02	1	6	6.24E-03
3	8.77E-02	0.135041197	3	4.50E-01
7	3.76E-02	0.222188886	7	2.79E-01
5	4.63E-02	-0.190903364	5	1.80E+00
11	2.45E-02	-0.953727832	11	1.60E+03
6	1.33E-03	-0.361627037	6	4.88E+00
7	1.61E-02	-0.228922605	7	3.13E+00
3	5.44E-02	0.167807457	3	4.06E-01
12	1.65E+00	-0.211142921	12	7.17E+00
3	1.88E+00	0.109123987	3	4.89E-01
8	1.33E-01	-0.297554072	8	5.70E+00
26	1.66E-03	0.167865215	26	2.52E-01
6	5.44E-01	0.721126404	6	2.65E-02
6	2.62E+00	-0.701402806	6	2.51E+01
6	6.07E+01	-0.553269455	6	1.23E+01
76	4.20E+09	-0.221027718	76	1.49E+06
39	1.34E-01	0.185750899	39	1.28E-01
5	1.67E-01	0.01073188	5	7.62E-01
18	3.74E-01	0.272205782	18	9.11E-02
23	4.62E-04	1	23	1.34E-07
12	2.54E+01	0.449513957	12	3.46E-02
9	1.59E+03	-0.77372965	9	1.55E+02
9	6.65E-01	-0.601764837	9	5.10E+01
4	6.21E-01	0	4	7.43E-01
5	7.56E+00	0.242098053	5	2.83E-01
37	2.64E+09	-0.649014975	37	9.41E+06
37	3.14E+10	-0.506424044	37	4.31E+05
1	5.05E-01	0	1	6.02E-01
82	2.20E-09	-0.211792267	82	3.05E+06
3	3.43E-01	-0.144043425	3	1.10E+00

4	2.56E+00	-0.112524658	4	1.13E+00
10	1.23E+01	0.291527012	10	1.48E-01
29	5.04E+01	2	29	6.54E-13
23	3.50E+01	2	23	3.01E-14
12	1.92E-04	0.182547026	12	2.99E-01
5	8.10E-03	2	5	2.19E-04
25	2.11E-02	0.134986452	25	4.22E-01
3	3.11E-01	0.248162573	3	3.14E-01
5	2.33E+00	-0.060003326	5	1.03E+00
6	7.77E-02	-0.152563238	6	1.78E+00
4	6.47E-01	-0.008824439	4	7.68E-01
7	4.38E-04	1	7	5.07E-04
4	5.12E-03	0.420943047	4	1.54E-01
4	1.28E-01	0.095210072	4	5.21E-01
11	9.90E-02	-0.2126955	11	6.03E+00
22	3.09E+01	-0.475776377	22	1.62E+03
40	1.60E-02	0.036740442	40	3.97E+00
16	8.46E-01	0.241439259	16	1.46E-01
12	5.26E-03	0.905979886	12	8.70E-04
10	4.05E+01	0.30907483	10	1.31E-01
4	7.39E-02	-0.327913423	4	2.53E+00
30	5.24E-10	0.816991244	30	2.18E-06
7	2.34E-01	-0.878510164	7	1.02E+02
6	2.13E-01	0.335193055	6	1.70E-01
32	1.03E+01	-0.491256893	32	5.77E+04
9	6.49E-02	-0.038048577	9	1.35E+00
3	5.64E-01	-0.327402024	3	1.97E+00
8	1.97E-02	-0.345230178	8	7.55E+00
10	1.26E-01	0.030090756	10	9.18E-01
17	5.06E-03	0.248102295	17	1.28E-01
17	7.62E+01	0.66106652	17	1.49E-03
13	3.40E+02	-0.728456467	13	7.42E+02
18	2.73E-02	-0.172871883	18	1.41E+01
25	2.61E-01	0.238815399	25	8.79E-02
6	4.13E+00	-0.425681084	6	6.65E+00
49	7.08E-02	0.32176253	49	2.06E-03
12	1.50E+01	0.990260325	12	4.41E-04
15	8.34E-03	0.363120061	15	4.76E-02
8	1.12E+00	0.718423296	8	1.42E-02
5	5.31E-01	-0.069218808	5	1.07E+00
11	2.35E+02	-1	11	7.51E+03
2	4.73E-01	0.76045087	2	8.61E-02
8	3.52E-03	1	8	9.23E-04
12	2.37E-01	-0.317191059	12	1.69E+01
31	2.69E-03	0.375947085	31	4.96E-03
64	1.14E-06	-0.027934277	64	1.39E+02
4	3.77E-04	0.70290542	4	5.39E-02

7	6.66E-02	-0.636989242	7	2.79E+01
24	8.24E-02	-0.37735995	24	7.42E+02
11	5.87E-02	0.008632393	11	1.14E+00
5	8.49E-01	-0.183279305	5	1.75E+00
4	8.29E-01	-0.143432941	4	1.27E+00
12	6.29E+04	-0.846283226	12	1.21E+03
16	1.33E+01	-0.387625877	16	9.14E+01
6	1.09E-03	-0.421081629	6	6.50E+00
21	3.61E+01	-0.562679115	21	3.59E+03
6	4.16E+00	0.448707321	6	9.85E-02
4	8.14E+00	-0.944222589	4	2.52E+01
3	6.82E-01	-0.011569678	3	7.19E-01
2	5.64E-01	0	2	6.46E-01
6	2.62E+01	-0.444057361	6	7.27E+00
11	1.63E+01	-0.194310781	11	5.25E+00
7	6.06E+00	-0.70780476	7	4.08E+01
16	9.66E+03	-0.829791084	16	8.46E+03
17	2.90E-02	-0.217841402	17	1.94E+01
7	2.69E-01	-0.105094643	7	1.61E+00
8	5.59E+00	0.026764702	8	8.41E-01
7	2.76E+01	-0.226455029	7	3.09E+00
12	9.17E+00	-0.134204209	12	3.85E+00
33	2.13E-01	0.199453443	33	1.18E-01
4	1.53E+01	-0.015942569	4	7.89E-01
8	1.32E+00	0.098384002	8	5.51E-01
4	7.32E-02	0.087544605	4	5.36E-01
6	1.00E-11	2	6	1.60E-04
7	2.81E-02	0.459356923	7	7.82E-02
7	5.76E-01	-0.099047111	7	1.56E+00
5	1.38E+02	-0.265451582	5	2.48E+00
81	4.02E-02	0.636851187	81	4.39E-11
6	1.76E-01	0.407221856	6	1.20E-01
29	1.37E+04	-0.053789269	29	1.09E+01
17	6.37E-06	0.899463064	17	1.14E-04
5	5.11E-02	0.575438664	5	6.81E-02
6	2.79E-03	1	6	6.77E-03
13	4.98E-03	0.000750298	13	1.39E+00
9	1.29E+00	0.129523622	9	4.58E-01
13	1.04E-02	0.739338244	13	2.40E-03
11	1.31E-02	0.384037356	11	6.75E-02
14	3.01E+01	0.737985906	14	1.75E-03
1	5.65E-01	0	1	6.02E-01
5	1.41E-01	0.357228323	5	1.73E-01
4	1.30E-02	0.911622367	4	2.47E-02
10	1.67E-03	0.762560321	10	5.50E-03
10	2.88E+00	0.480449384	10	3.95E-02
5	1.27E-03	0.33316142	5	1.92E-01

2	7.45E-02	-0.157682145	2	9.81E-01
4	9.37E-01	-0.180900462	4	1.46E+00
66	2.80E+40	-0.941691295	66	1.09E+17
4	9.32E-02	-0.4555039	4	4.07E+00
8	1.69E+01	0.037101109	8	7.91E-01
11	1.22E-01	0.170265173	11	3.37E-01
15	7.48E-02	0.07673903	15	7.65E-01
6	2.93E-01	-0.026214693	6	9.71E-01
20	5.01E-01	0.085879426	20	7.88E-01
5	2.87E+02	-0.045190949	5	9.67E-01
6	1.98E+00	-0.082129215	6	1.27E+00
3	4.83E-02	-0.086019471	3	9.12E-01
7	5.03E-02	-0.683024054	7	3.57E+01
10	3.63E-01	-0.163853538	10	3.56E+00
7	1.06E+00	-0.13526493	7	1.89E+00
27	6.16E+05	0.53668166	27	6.26E-04
9	3.27E-01	0.021019714	9	9.22E-01
7	1.98E-01	-0.013776006	7	9.88E-01
4	3.45E-01	0.029698947	4	6.65E-01
1	5.20E-02	2	1	7.45E-03
9	1.89E-02	0.955048403	9	2.24E-03
6	7.07E-03	-0.055929774	6	1.12E+00
7	7.71E-03	-0.109304485	7	1.65E+00
19	4.76E-04	0.407795719	19	1.69E-02
9	1.84E-03	0.249377634	9	2.12E-01
45	5.77E-10	0.228842004	45	3.48E-02
8	1.02E-02	0.633568157	8	2.34E-02
5	6.79E-01	0.912413743	5	1.61E-02
4	2.78E-02	-0.163994266	4	1.37E+00
3	1.73E-01	0.102904529	3	4.99E-01
8	1.70E+00	0.888923194	8	5.18E-03
7	1.85E-01	0.439461929	7	8.70E-02
4	4.90E-01	0.021740358	4	6.85E-01
15	2.56E-03	0.507240491	15	1.18E-02
12	3.59E-02	-0.009768013	12	1.41E+00
7	1.09E-01	0.00674928	7	8.85E-01
14	1.02E-01	-0.440355646	14	8.46E+01
7	3.02E-03	-0.49172352	7	1.28E+01
3	2.54E-02	0.342053257	3	2.33E-01
5	3.28E-01	0.502451259	5	9.30E-02
17	3.40E-07	0.595284782	17	3.02E-03
6	7.51E-02	-0.579509963	6	1.40E+01
4	1.07E+00	-0.27275027	4	2.06E+00
11	3.06E+01	-0.136985016	11	3.41E+00
15	8.12E-01	0.080844741	15	7.35E-01
21	3.15E-01	0.575299178	21	1.43E-03
14	8.00E+01	-0.389308356	14	5.30E+01

12	2.78E-02	-0.242928148	12	9.26E+00
12	9.81E-02	-0.011750653	12	1.43E+00
12	5.51E-05	0.73557743	12	3.44E-03
10	1.73E-06	1	10	6.73E-04
5	1.71E-02	1	5	4.68E-03
5	7.34E+00	1	5	6.97E-03
16	3.10E+00	0.009431932	16	1.57E+00
9	4.55E+00	0.296968228	9	1.56E-01
11	1.85E+03	-1	11	4.87E+03
4	4.77E-01	-0.718982867	4	1.09E+01
3	1.24E+00	-0.549406339	3	4.00E+00
53	1.37E-05	0.90584154	53	2.80E-11
1	1.54E-01	-0.966592179	1	4.61E+00
1	6.91E-01	-0.205059902	1	9.27E-01
4	5.97E-01	-0.213161611	4	1.65E+00
16	2.56E-02	1	16	1.01E-06
29	5.52E+00	-0.175301184	29	8.92E+01
6	1.63E-02	-0.303280666	6	3.69E+00
2	1.22E+00	0.010429745	2	6.28E-01
6	2.34E+00	-0.028768353	6	9.83E-01
15	1.02E+02	-0.392073695	15	7.21E+01
45	5.05E+07	0.610801583	45	1.72E-06
7	5.96E+00	0.809153132	7	1.20E-02
9	1.06E-03	-0.340931141	9	9.50E+00
15	2.94E-01	0.211780187	15	2.07E-01
46	9.25E-10	0.166826319	46	1.71E-01
6	1.20E+00	-0.589367284	6	1.46E+01
14	1.20E+02	-0.643377831	14	5.42E+02
7	4.25E-01	0.406143357	7	1.04E-01
25	3.88E-07	0.226846353	25	1.05E-01
1	5.15E-01	0.008649367	1	5.91E-01
1	5.15E-01	0.008649367	1	5.91E-01
5	5.72E+00	-0.572604143	5	9.22E+00
15	4.43E+00	-0.228464458	15	1.48E+01
10	4.04E+00	-0.451895663	10	2.66E+01
7	3.16E+00	-0.987165451	7	1.82E+02
10	3.01E+02	-0.262421753	10	7.09E+00
7	1.65E+01	-0.455631624	7	1.06E+01
14	4.21E-02	0.722710269	14	2.01E-03
3	6.60E-01	-0.146894476	3	1.11E+00
9	1.44E+00	-0.473448275	9	2.23E+01
4	2.93E+00	-0.994488288	4	3.04E+01
10	2.87E+00	0.123046581	10	4.80E-01
5	9.89E+00	-0.380688175	5	4.06E+00
60	2.03E+17	-0.239462695	60	1.34E+05
15	5.48E+00	-0.313402632	15	3.36E+01
16	2.09E+04	-0.652426122	16	1.38E+03

7	1.69E+02	-0.526685619	7	1.54E+01
11	2.85E+05	-0.733454073	11	3.04E+02
6	1.34E+00	0.125700258	6	4.67E-01
1	5.03E-01	0.046591647	1	5.46E-01
19	7.45E-03	-0.560874835	19	1.66E+03
28	3.05E-01	-0.012298259	28	4.93E+00
4	1.13E+01	-2	4	1.07E+03
9	1.15E+00	-2	9	1.90E+04
8	3.91E+00	-2	8	2.01E+04
16	8.95E+00	-0.855863027	16	1.10E+04
16	2.10E+02	-0.227262304	16	1.77E+01
21	7.30E-04	0.185575737	21	2.22E-01
1	5.32E-01	0	1	6.02E-01
1	5.32E-01	0	1	6.02E-01
10	1.30E-01	0.891828994	10	2.23E-03
7	9.26E-05	0.81007112	7	1.19E-02
19	2.55E-11	1	19	9.47E-08
3	1.45E-02	2	3	1.55E-03
6	7.47E-03	-0.390237743	6	5.61E+00
7	3.22E-02	0.061702856	7	6.59E-01
4	9.69E-02	0.645658544	4	6.67E-02
18	6.96E-03	-0.189666335	18	1.70E+01
13	4.22E-03	-0.077873671	13	2.74E+00
3	7.19E-02	-0.329624542	3	1.98E+00
6	2.79E-02	0.228971698	6	2.84E-01
1	5.35E-01	-0.097764861	1	7.40E-01
10	6.30E-04	0.190833851	10	2.99E-01
19	7.39E-04	0.682778058	19	6.46E-04
17	1.88E-02	0.797071746	17	3.43E-04
13	5.16E-03	0.527837702	13	1.48E-02
6	5.40E-02	-0.24345882	6	2.76E+00
4	1.68E+00	-0.196844324	4	1.55E+00
11	1.21E+06	-0.855509947	11	7.62E+02
6	3.09E-01	0.109393667	6	5.05E-01
9	4.89E-02	-0.074297459	9	1.70E+00
36	3.10E-01	0.337374341	36	5.74E-03
19	3.89E-01	0.463678905	19	8.70E-03
9	1.41E-01	0.198599837	9	2.94E-01
3	1.03E+01	-0.813487962	3	9.29E+00
12	1.36E+00	-0.336018749	12	1.96E+01
4	2.85E-02	0.854199349	4	3.06E-02
2	3.25E-02	-0.054497794	2	7.46E-01
16	2.37E+01	0.054062213	16	9.93E-01
24	1.46E-03	3	24	3.36E-16
27	9.88E-10	1	27	4.24E-09
5	3.43E-02	0.349461793	5	1.79E-01
5	2.14E-01	-0.314153339	5	3.05E+00

88	6.56E-03	-0.347199509	88	7.32E+09
28	1.24E+06	-1	28	1.18E+08
4	6.39E-01	-0.776726432	4	1.35E+01
12	1.15E+00	-0.353680734	12	2.26E+01
7	3.72E-01	0.53097557	7	5.33E-02
41	5.05E-03	0.08088295	41	1.46E+00
12	8.91E-04	-0.195967656	12	6.34E+00
3	3.68E-02	-0.44380649	3	2.86E+00
3	3.42E-01	-0.874123964	3	1.13E+01
36	5.75E+03	-0.505387714	36	2.99E+05
18	4.97E-18	2	18	9.43E-11
31	1.01E-04	0.347987792	31	8.29E-03
18	5.10E-05	0.178379433	18	2.64E-01
6	3.14E-02	-0.279145268	6	3.28E+00
14	3.17E-01	0.144739644	14	3.99E-01
4	3.89E-01	0.239398944	4	3.04E-01
3	3.75E-02	-0.228980822	3	1.44E+00
6	6.04E-04	0.308583444	6	1.93E-01
7	3.95E-06	0.946134434	7	5.76E-03
33	1.89E-06	0.380726502	33	3.46E-03
11	2.11E-05	0.514656787	11	2.52E-02
7	2.68E-01	1	7	1.57E-03
29	1.36E-07	0.033054789	29	2.43E+00
11	3.75E-01	-0.206114799	11	5.74E+00
8	3.05E-01	-0.062264763	8	1.42E+00
3	4.47E-01	-0.028077027	3	7.58E-01
6	5.85E+00	-0.399143437	6	5.85E+00
14	1.92E+01	-0.301577585	14	2.37E+01
82	2.40E-09	0.051013191	82	1.71E+01
7	1.33E-01	-0.181199208	7	2.42E+00
27	4.36E-01	0.220528188	27	1.05E-01
8	2.02E+02	-0.635722363	8	4.19E+01
5	3.01E-01	-0.123437332	5	1.35E+00
8	1.57E-01	-1	8	7.22E+02
8	3.36E-01	-0.39978813	8	1.04E+01
9	2.73E-02	-0.335626891	9	9.18E+00
3	6.35E-01	0.713649902	3	7.10E-02
3	5.84E-01	0.83272081	3	4.86E-02
8	1.94E+00	0.571606631	8	3.37E-02
21	4.45E-03	-0.102353767	21	9.24E+00
10	2.08E-04	1	10	3.20E-04
13	3.40E-02	-0.291203645	13	1.72E+01
24	6.10E-03	0.13024871	24	4.54E-01
4	8.16E-01	-0.425491042	4	3.64E+00
5	6.78E+00	-0.770873101	5	2.15E+01
13	3.73E-01	-0.2184234	13	9.18E+00
4	7.29E+00	-2	4	3.20E+02

7	4.49E-02	0.329365006	7	1.57E-01
5	7.83E-02	0.259542051	5	2.63E-01
3	1.03E-01	-0.53639278	3	3.84E+00
1	5.70E-01	-0.083032722	1	7.17E-01
1	3.48E-01	-0.530388117	1	1.84E+00
7	1.56E+00	-0.382930369	7	7.15E+00
2	2.65E+00	0	2	6.46E-01
1	5.91E-01	-0.031699916	1	6.44E-01
5	1.51E+00	-0.144311184	5	1.48E+00
3	2.43E-01	0.583409135	3	1.08E-01
22	3.60E-05	0.348029196	22	2.41E-02
9	2.94E-04	-0.017049606	9	1.18E+00
19	5.03E-03	-0.11577522	19	8.42E+00
7	1.26E-02	0.48383186	7	6.86E-02
29	1.69E+00	0.030904146	29	2.52E+00
4	1.83E-02	-0.490431638	4	4.64E+00
16	3.21E+02	0.082895427	16	7.39E-01
8	1.17E+00	-0.884261388	8	1.82E+02
6	1.89E+01	-0.085717438	6	1.29E+00
7	5.24E+00	-0.499058784	7	1.33E+01
18	6.74E+01	-0.194347623	18	1.80E+01
2	6.97E-01	0	2	6.46E-01
9	2.96E+00	0.554749307	9	2.96E-02
5	6.37E-01	0.118180155	5	4.81E-01
3	5.93E-01	0.128917325	3	4.59E-01
13	2.30E+00	0.161322998	13	3.49E-01
46	3.92E+14	-0.92811383	46	6.86E+11
17	1.85E-01	-0.164735138	17	1.09E+01
9	1.57E+04	-0.844507139	9	2.44E+02
11	9.76E+02	-0.788473573	11	4.60E+02
13	7.97E-01	-1	13	2.59E+04
5	1.65E+00	-1	5	1.98E+02
5	7.13E-01	-0.901483898	5	3.76E+01
4	2.96E-01	-1	4	3.31E+01
13	1.48E-03	0.340637188	13	7.44E-02
5	1.36E+00	-0.338995282	5	3.40E+00
6	2.08E+00	-0.511249586	6	1.00E+01
8	3.47E+06	-2	8	3.50E+04
3	4.71E-01	-0.126234808	3	1.04E+00
11	1.68E-01	-0.517993327	11	6.00E+01
3	8.99E-01	-0.103848463	3	9.65E-01
4	5.06E-01	-0.016110953	4	7.89E-01
5	1.45E-03	0.62408504	5	5.53E-02
9	2.44E-03	0.68515058	9	1.28E-02
8	7.43E-02	-0.15758289	8	2.50E+00
3	7.49E-01	0.006316742	3	6.79E-01
7	1.19E-04	0.005940349	7	8.89E-01

10	1.66E-02	0.729823561	10	6.92E-03
12	1.47E-02	0.900367212	12	9.11E-04
21	2.90E-08	2	21	5.17E-09
9	3.37E-05	1	9	1.85E-04
21	1.61E-07	1	21	3.08E-07
6	7.37E-03	0.216641698	6	3.01E-01
11	4.12E+03	-0.158107325	11	4.00E+00
11	2.64E+00	0.037298618	11	9.18E-01
3	6.35E-01	-0.345824321	3	2.09E+00
1	6.50E-01	-0.239480514	1	9.97E-01
9	7.60E+01	-0.61913227	9	5.71E+01
5	2.64E+00	0.697301174	5	4.04E-02
10	1.30E-02	0.318779515	10	1.22E-01
16	9.25E-01	1	16	3.81E-05
7	5.65E+01	-0.727930914	7	4.54E+01
12	2.64E+00	-0.431042872	12	4.23E+01
2	1.23E+00	0.095885847	2	5.01E-01
15	4.29E-03	-0.076639372	15	3.39E+00
12	2.28E-01	0.133145531	12	4.45E-01
10	1.88E-02	0.881727964	10	2.39E-03
3	1.22E-01	2	3	4.69E-03
22	2.03E+02	-0.13567007	22	1.64E+01
17	2.54E+00	-0.378937554	17	1.10E+02
4	4.12E-03	2	4	7.72E-05
2	4.31E-03	2	2	9.69E-04
1	4.83E-01	0.026253417	1	5.70E-01
3	1.22E-02	0.281010106	3	2.83E-01
7	1.23E-04	-0.408058511	7	8.18E+00
1	4.24E-01	0.035474487	1	5.59E-01
2	2.71E-01	-0.306030212	2	1.45E+00
5	2.26E-03	-0.386289221	5	4.16E+00
4	3.06E-01	-0.133906576	4	1.23E+00
41	2.60E-04	0.013172987	41	7.32E+00
17	1.05E+00	-0.117957128	17	6.61E+00
3	8.69E-02	-0.684511723	3	6.16E+00
23	1.50E+02	0.640278723	23	3.54E-04
5	3.25E-02	-0.063958842	5	1.05E+00
5	8.89E-01	-0.617410939	5	1.12E+01
3	5.54E-01	-0.534768311	3	3.82E+00
16	5.84E-02	0.629515451	16	2.74E-03
6	1.22E-01	-0.1546574	6	1.80E+00
13	1.84E+00	-0.506109372	13	1.09E+02
9	3.93E-01	-0.096871497	9	1.97E+00
9	1.55E+01	0.060211571	9	7.16E-01
3	8.20E-02	0.723897666	3	6.88E-02
26	3.37E+00	0.701033679	26	5.95E-05
2	5.16E-01	0.449600767	2	1.96E-01

19	2.38E-01	0.922616015	19	3.75E-05
13	3.73E+00	1	13	1.57E-04
6	2.96E-01	-0.276073443	6	3.23E+00
18	7.45E-04	0.511706502	18	6.05E-03
18	1.77E-05	-0.110450905	18	6.94E+00
19	9.85E-02	-0.197293441	19	2.22E+01
4	8.42E-01	0	4	7.43E-01
21	1.47E+03	0.084584404	21	8.21E-01
10	8.47E-01	-0.699930041	10	1.51E+02
8	1.51E-02	0.659632505	8	2.01E-02
31	8.68E+01	-0.696312872	31	1.78E+06
17	5.33E-02	-0.087508838	17	4.76E+00
23	8.88E-06	1	23	8.87E-08
18	6.19E+01	-0.083139411	18	5.10E+00
8	3.76E-02	2	8	2.64E-05
7	6.84E-01	-0.172618861	7	2.31E+00
11	9.50E-01	-0.335645268	11	1.52E+01
7	1.44E+02	-0.502246979	7	1.35E+01
11	3.69E-02	0.068942151	11	7.23E-01
6	1.07E-02	-0.228131193	6	2.57E+00
15	9.65E-01	-0.245707471	15	1.74E+01
4	6.62E+01	-0.218633191	4	1.68E+00
4	6.38E-01	0.184542248	4	3.73E-01
11	3.07E+02	-0.711322267	11	2.57E+02
3	4.02E-01	0.137389391	3	4.47E-01
6	3.74E-01	0.848019643	6	1.44E-02
8	8.92E-01	-0.105931381	8	1.84E+00
3	1.29E-01	0.637248306	3	9.07E-02
10	9.06E-02	1	10	3.47E-04
15	6.09E-02	-0.45744046	15	1.36E+02
2	7.58E-01	-1	2	3.41E+01
17	2.42E+01	-0.016546125	17	2.21E+00
12	1.69E+02	-0.489449757	12	6.77E+01
6	7.43E+01	-0.795690372	6	3.95E+01
6	6.73E-02	-0.002166598	6	8.64E-01
14	5.22E-02	0.864593793	14	5.48E-04
9	1.36E-04	0.740052672	9	8.96E-03
9	6.21E-03	0.87000199	9	3.88E-03
23	5.57E-10	2	23	4.93E-12
14	7.45E-01	-0.185343933	14	8.19E+00
2	7.91E-01	0.040029541	2	5.81E-01
2	1.01E+01	-0.408790726	2	1.91E+00
13	6.31E+00	-0.521788377	13	1.25E+02
10	1.46E-01	-0.033241884	10	1.43E+00
8	2.32E+01	-0.79270682	8	1.06E+02
5	3.11E+01	0.00969141	5	7.65E-01
9	2.71E+03	-0.816719043	9	2.04E+02

5	1.63E+02	-0.25810852	5	2.40E+00
6	1.53E+00	-0.167781438	6	1.92E+00
15	1.84E-02	-0.22395009	15	1.41E+01
38	2.38E-10	0.490092477	38	1.55E-04
6	2.37E-05	2	6	5.65E-05
5	2.75E-03	0.678692747	5	4.38E-02
10	1.02E-02	-0.123395409	10	2.68E+00
24	9.17E-02	-0.176908839	24	3.99E+01
5	1.67E+01	-0.908343796	5	3.87E+01
7	3.17E-01	-0.799006818	7	6.65E+01
7	2.18E-02	-0.418843334	7	8.66E+00
32	7.48E-02	0.433700234	32	1.46E-03
36	5.58E-06	0.062622222	36	1.88E+00
1	5.07E-01	-0.390534956	1	1.37E+00
6	2.47E+00	-0.417277149	6	6.39E+00
4	1.31E+00	-1	4	5.25E+01
18	2.58E+09	-1	18	1.95E+06
5	9.50E+00	-0.385292369	5	4.14E+00
1	4.92E-01	0.034794354	1	5.59E-01
6	5.60E-01	-0.31316153	6	3.87E+00
19	4.20E-03	0.141583633	19	3.97E-01
30	1.07E-05	0.895147567	30	5.41E-07
7	1.75E-03	0.175143606	7	3.59E-01
10	1.87E-01	0.048614306	10	8.07E-01
12	4.19E+01	-0.48738908	12	6.66E+01
5	4.98E+01	-0.442747372	5	5.29E+00
9	5.60E+00	0.083263229	9	6.18E-01
4	7.25E+00	-0.55108151	4	5.82E+00
5	2.91E+00	-0.645553245	5	1.26E+01
13	3.19E-01	0.507761705	13	1.76E-02
7	5.81E+00	0.384886323	7	1.17E-01
4	3.04E+00	0.828658477	4	3.37E-02
1	1.25E+00	0.649124729	1	1.53E-01
5	1.07E+00	0.95387562	5	1.35E-02
27	1.91E-01	-0.106903015	27	2.12E+01
4	1.14E+00	0.219403261	4	3.28E-01
6	1.03E-03	-0.115755374	6	1.49E+00
6	4.96E-02	0.117094297	6	4.87E-01
10	1.38E+00	0.09575456	10	5.80E-01
5	2.04E-01	-0.325412062	5	3.21E+00
8	9.89E-02	0.050321412	8	7.31E-01
1	1.01E-02	0.786836891	1	1.15E-01
8	4.29E+00	-0.082213192	8	1.60E+00
2	5.64E-01	0.154084706	2	4.29E-01
4	3.33E+00	0.139697309	4	4.41E-01
10	7.15E+00	0.022379109	10	9.69E-01
12	2.02E-03	0.591631132	12	1.10E-02

17	3.30E-02	-0.324287365	17	6.11E+01
13	6.23E-01	-0.389750339	13	4.01E+01
82	2.89E-03	-0.070804325	82	4.64E+03
18	1.08E-01	-0.124098782	18	8.10E+00
2	5.69E-01	0.020515733	2	6.12E-01
89	1.26E-04	0.296904046	89	1.10E-04
11	1.14E-02	0.181818188	11	3.09E-01
4	7.57E-01	0.482613766	4	1.23E-01
6	2.03E-01	-0.751126533	6	3.19E+01
4	1.67E-03	1	4	1.29E-02
7	2.84E-04	0.88116069	7	8.16E-03
4	6.98E-03	1	4	1.74E-02
5	9.91E-03	0.217474482	5	3.15E-01
25	7.21E+00	0.981946521	25	1.16E-06
10	3.20E-01	0.24222611	10	2.09E-01
11	8.96E+00	0.154818475	11	3.79E-01
11	3.51E+01	-0.54140477	11	7.16E+01
20	1.59E+03	-0.126417927	20	1.10E+01
11	7.96E+00	0.069306575	11	7.21E-01
3	4.92E-02	0.140821658	3	4.42E-01
10	2.18E-01	0.298124303	10	1.41E-01
5	2.67E+00	-0.286035936	5	2.71E+00
1	3.05E+00	-0.419810245	1	1.46E+00
5	9.26E+00	-0.890449954	5	3.59E+01
9	1.12E+00	0.955093356	9	2.24E-03
27	4.05E-03	0.416090298	27	4.42E-03
6	2.47E-02	0.18185713	6	3.56E-01
7	4.82E+00	1	7	2.11E-03
17	1.82E+02	0.956758018	17	6.14E-05
25	6.50E+09	0.082693363	25	9.31E-01
23	4.85E+02	0.057598778	23	1.26E+00
14	2.48E+00	0.851443968	14	6.18E-04
10	2.24E-06	2	10	1.40E-05
2	1.93E-01	2	2	3.05E-03
5	7.49E+00	2	5	8.82E-04
14	2.01E-02	0.17713459	14	2.96E-01
11	1.59E-01	-0.435350755	11	3.22E+01
22	3.36E-02	0.134367661	22	4.30E-01
3	7.24E+01	2	3	1.60E-03
4	6.07E-01	0	4	7.43E-01
22	8.78E-05	0.100169261	22	6.82E-01
3	1.29E-01	0.047259376	3	5.96E-01
7	1.19E-01	0.234898064	7	2.61E-01
3	3.62E-01	-0.221980043	3	1.41E+00
2	2.07E-01	-0.168770648	2	1.01E+00
17	5.32E-02	0.261785666	17	1.10E-01
30	6.44E+02	-0.110747298	30	3.33E+01

4	4.54E+01	-0.121799832	4	1.17E+00
3	1.12E+00	0.051695173	3	5.87E-01
20	1.37E-06	0.467838613	20	6.89E-03
23	3.54E+01	-0.319290386	23	2.50E+02
11	2.27E+00	-0.160069025	11	4.06E+00
2	4.73E-01	-0.823056272	2	5.71E+00
8	3.14E+01	-0.442033041	8	1.34E+01
4	2.73E+00	-0.504512498	4	4.89E+00
4	7.67E-01	0.593873706	4	8.09E-02
8	1.28E+01	0.853823821	8	6.38E-03
4	3.58E-01	-0.548240474	4	5.75E+00
6	3.90E+01	0.002405792	6	8.45E-01
9	1.02E+03	-0.495694872	9	2.58E+01
15	7.16E+00	0.7344778	15	1.30E-03
8	1.43E+01	0.647746566	8	2.15E-02
4	8.89E-01	-0.255849518	4	1.93E+00
19	5.77E-03	0.270498458	19	8.61E-02
15	2.91E+00	-0.520936382	15	2.52E+02
2	4.08E-03	1	2	1.95E-02
4	1.72E-03	1	4	9.35E-03
14	2.85E-05	0.501196479	14	1.53E-02
10	4.06E-02	0.295463524	10	1.44E-01
10	1.19E-02	0.555223874	10	2.34E-02
9	2.13E-01	1	9	2.68E-04
9	4.69E-02	2	9	3.02E-07
9	4.84E-02	3	9	7.86E-09
11	1.39E-05	2	11	7.68E-07
14	3.55E-02	-0.014994202	14	1.72E+00
7	6.83E-03	-0.044492476	7	1.16E+00
4	2.20E-02	0	4	7.43E-01
12	1.22E-02	-0.102204217	12	2.98E+00
9	4.79E-06	0.337449213	9	1.20E-01
4	4.86E-02	0.009732922	4	7.17E-01
9	1.58E+01	-0.034617021	9	1.32E+00
21	1.37E-03	-0.024144103	21	3.36E+00
62	1.61E+17	-0.66135699	62	5.56E+11
6	5.87E-01	0.274508453	6	2.28E-01
8	6.75E-02	0.41059605	8	8.72E-02
14	4.37E-04	0.841005161	14	6.80E-04
9	1.30E+00	0.061268676	9	7.12E-01
8	2.63E+00	-0.814527223	8	1.21E+02
4	8.66E+00	-2	4	4.02E+02
6	2.63E-02	0.279771396	6	2.22E-01
5	6.84E-01	0.699703321	5	4.00E-02
8	1.27E-01	2	8	7.97E-05
6	1.02E-02	1	6	2.60E-03
2	3.44E-01	-0.536869687	2	2.68E+00

7	2.05E+00	-0.382004338	7	7.11E+00
6	1.34E+02	0.389908625	6	1.31E-01
19	2.71E+01	-0.008520156	19	2.36E+00
7	2.16E+00	-0.045664504	7	1.17E+00
52	3.54E-10	0.299213982	52	2.95E-03
8	1.41E+01	0.492485627	8	5.38E-02
5	1.57E+01	0.271117878	5	2.50E-01
5	7.03E-01	0.083320132	5	5.58E-01
4	9.14E-01	0.264290369	4	2.77E-01
21	1.05E-01	0.498983245	21	3.83E-03
2	1.38E-01	-0.561358989	2	2.86E+00
11	1.73E-01	-0.622520031	11	1.32E+02
5	6.86E-02	0.52740205	5	8.36E-02
2	6.30E-01	0.006980291	2	6.34E-01
6	6.62E+00	-0.266655955	6	3.09E+00
11	2.94E+00	-0.181472014	11	4.77E+00
7	7.62E-01	-0.115179532	7	1.70E+00
14	2.49E+05	-0.837839212	14	3.22E+03
17	2.80E+00	-0.138405306	17	8.24E+00
9	1.23E+02	-0.152579106	9	2.82E+00
4	6.07E-01	-0.110042929	4	1.12E+00
2	4.26E-01	-0.237192435	2	1.21E+00
1	4.33E-01	-0.090831856	1	7.29E-01
8	8.35E-03	0.021450145	8	8.67E-01
2	2.07E-01	0.404764893	2	2.21E-01
6	2.66E+00	0.09686615	6	5.36E-01
2	2.40E-01	-0.325239808	2	1.53E+00
11	4.52E-05	2	11	3.06E-06
11	6.73E-03	1	11	2.68E-04
1	5.55E-01	0	1	6.02E-01
7	4.18E+00	-0.255668962	7	3.61E+00
80	3.03E+02	0.750156976	80	3.55E-13
7	6.80E+02	-0.476534536	7	1.18E+01
2	1.13E+00	-0.58987663	2	3.08E+00
30	1.41E+00	0.870337029	30	8.42E-07
17	6.53E-03	0.278662351	17	9.18E-02
18	7.95E-06	-0.219912453	18	2.40E+01
6	1.13E-06	-0.144656374	6	1.72E+00
6	1.93E-05	-1	6	3.70E+02
15	2.43E-06	-1	15	3.77E+04
2	2.70E-01	-0.068258682	2	7.74E-01
10	3.65E-03	-0.289350557	10	8.55E+00
20	4.54E-02	0.107327721	20	6.04E-01
1	5.03E-01	0	1	6.02E-01
8	3.20E-01	0.262888531	8	2.09E-01
14	2.37E+00	-0.662958355	14	6.49E+02
12	6.59E-05	-0.10475063	12	3.04E+00

6	4.64E-05	0.965689103	6	8.16E-03
23	1.30E+03	0.003251822	23	2.70E+00
3	9.25E-01	0.252310994	3	3.10E-01
1	5.36E-01	0	1	6.02E-01
1	5.36E-01	0	1	6.02E-01
3	9.37E-01	-0.195431339	3	1.29E+00
7	5.68E+00	0.374829837	7	1.23E-01
4	6.06E-01	0.000315132	4	7.42E-01
4	2.40E-02	-0.371979377	4	2.98E+00
19	1.11E-01	-0.082850855	19	5.70E+00
4	3.27E-02	0.020206364	4	6.89E-01
4	2.29E+00	0.185962123	4	3.71E-01
3	1.69E-01	-0.699454446	3	6.46E+00
57	4.62E-01	0.032740517	57	1.06E+01
44	1.33E-01	0.089769516	44	1.26E+00
4	2.09E+00	-0.275239684	4	2.08E+00
7	3.13E+00	-0.08682113	7	1.46E+00
8	5.35E-01	0.02847442	8	8.32E-01
11	9.84E-01	-0.127158454	11	3.17E+00
5	1.75E+00	-0.038291081	5	9.39E-01
8	3.66E+01	-0.015982788	8	1.08E+00
3	4.38E-01	-0.107834631	3	9.77E-01
14	1.17E-02	-0.513294314	14	1.65E+02
1	1.06E-01	-2	1	2.95E+01
3	1.23E-01	-1	3	3.61E+01
24	8.04E-10	0.829960171	24	1.69E-05
7	2.03E-01	0.045336977	7	7.20E-01
3	4.33E-02	0.87058955	3	4.31E-02
13	4.65E-04	0.179654107	13	2.98E-01
6	7.21E-01	0.061888745	6	6.35E-01
4	7.06E-02	-0.241795687	4	1.83E+00
2	6.05E-01	-0.00906652	2	6.61E-01
2	6.10E-01	-0.008873525	2	6.61E-01
8	7.37E-01	-0.097853535	8	1.75E+00
18	5.59E-01	-0.0129988	18	2.30E+00
24	4.90E-01	-0.102153374	24	1.34E+01
8	4.67E-01	-0.020382442	8	1.11E+00
5	9.53E-02	-0.178040513	5	1.71E+00
4	5.91E-01	-0.1941645	4	1.53E+00
23	6.02E+01	-0.056700467	23	6.26E+00
6	1.98E+00	-0.595291836	6	1.51E+01
12	6.83E-01	-0.108180928	12	3.12E+00
14	1.70E+00	-0.021010453	14	1.82E+00
7	7.89E+00	-0.539623028	7	1.65E+01
15	2.01E+02	0.347156618	15	5.56E-02
12	2.77E+01	-0.245700696	12	9.47E+00
129	1.15E-09	-0.087923098	129	2.61E+06

3	3.30E-01	-0.000600816	3	6.94E-01
5	7.36E-01	0.028587298	5	7.06E-01
5	1.14E+01	-0.147504163	5	1.50E+00
8	3.39E+00	-0.365827871	8	8.53E+00
6	6.78E+01	-0.112057586	6	1.47E+00
4	1.22E-01	-0.322015851	4	2.47E+00
5	7.67E+00	-0.208728807	5	1.95E+00
10	1.20E+03	-0.744700528	10	2.06E+02
4	8.26E-01	-0.086321414	4	1.03E+00
5	6.77E-01	-0.216485779	5	2.01E+00
3	8.22E-01	-0.028582356	3	7.59E-01
18	2.48E+00	-0.091189868	18	5.58E+00
24	2.48E+02	0.118651852	24	5.37E-01
15	1.26E+02	-0.390092193	15	7.07E+01
18	1.23E-04	-0.043402986	18	3.25E+00
8	1.44E+01	-0.419933815	8	1.17E+01
2	1.03E+00	-0.213926393	2	1.14E+00
10	9.49E-01	0.120149524	10	4.89E-01
2	5.64E-01	0.019845546	2	6.13E-01
18	6.41E-02	-0.13841549	18	9.53E+00
3	5.06E+00	0.149423575	3	4.30E-01
3	6.80E+00	-0.598316015	3	4.68E+00
1	6.19E-01	0.025585035	1	5.70E-01
3	1.20E-01	0.282765265	3	2.81E-01
4	9.20E+00	-0.275416747	4	2.08E+00
3	3.33E+00	-0.248643125	3	1.53E+00
6	1.86E+00	0.338862755	6	1.67E-01
10	9.39E-01	0.097647549	10	5.73E-01
12	2.40E+01	0.224390274	12	2.13E-01
9	1.08E+00	0	9	1.06E+00
4	6.52E-01	-0.759292728	4	1.27E+01
3	1.48E+01	-0.409146105	3	2.56E+00
2	3.67E-01	0	2	6.46E-01
2	4.87E-01	0	2	6.46E-01
1	5.82E-01	0	1	6.02E-01
2	4.62E+00	0.000429684	2	6.45E-01
4	3.67E+01	0.006416279	4	7.26E-01
4	8.48E-01	0.751664937	4	4.49E-02
2	5.64E-01	0	2	6.46E-01
3	6.17E-01	0	3	6.93E-01
7	5.11E-01	0.19125468	7	3.29E-01
6	5.21E-01	-0.153106962	6	1.79E+00
7	1.41E+00	-0.058845118	7	1.26E+00
4	6.74E-01	-0.00255367	4	7.50E-01
7	3.63E-02	-0.886719183	7	1.06E+02
12	8.79E+00	-0.617716199	12	1.91E+02
4	2.21E+00	-0.334340072	4	2.59E+00

9	1.25E+00	-0.045185228	9	1.41E+00
13	2.66E+05	0.354706921	13	6.59E-02
9	1.05E+00	-0.00738765	9	1.11E+00
18	2.18E+00	-0.07050316	18	4.42E+00
13	1.76E-01	-0.036219852	13	1.91E+00
9	2.33E+00	0.118278638	9	4.93E-01
5	6.28E-01	0.257791057	5	2.65E-01
28	8.81E+05	-0.135241317	28	3.86E+01
5	2.06E+00	-0.060403595	5	1.03E+00
5	1.00E+00	-0.521965862	5	7.43E+00
9	2.16E+02	-0.619972865	9	5.74E+01
19	1.78E+00	0.027522835	19	1.54E+00
5	4.08E-01	0.085226291	5	5.54E-01
14	9.80E-01	-0.096779348	14	3.64E+00
11	5.63E-01	0.042902818	11	8.80E-01
30	6.99E+00	-0.03686411	30	8.91E+00
16	6.18E+03	-0.652915586	16	1.38E+03
9	1.74E+02	-0.261344618	9	5.69E+00
5	9.79E-01	-0.173633122	5	1.68E+00
8	1.95E+00	0.219785393	8	2.69E-01
9	2.60E+01	-0.060327203	9	1.56E+00
3	1.24E+01	-0.129358497	3	1.05E+00
7	4.31E+01	-0.797648252	7	6.60E+01
6	6.91E-01	0	6	8.55E-01
4	8.67E-01	-0.205422858	4	1.60E+00
7	7.27E-01	0.000679536	7	9.14E-01
7	8.80E-01	-0.049963927	7	1.20E+00
5	1.67E+00	0.054573502	5	6.31E-01
6	6.91E-01	0	6	8.55E-01
6	1.27E+00	0.303838171	6	1.98E-01
9	1.63E+01	-0.276564163	9	6.28E+00
3	3.49E-01	-0.587422379	3	4.52E+00
7	1.21E+00	0.105903759	7	5.20E-01
8	7.17E-02	-0.134158825	8	2.17E+00
6	5.99E-01	0.285803971	6	2.16E-01
3	1.29E+00	-0.834348603	3	9.93E+00
3	5.07E-01	-0.159324296	3	1.15E+00
3	1.66E-04	0.095052491	3	5.12E-01
8	2.62E-05	-0.027199045	8	1.16E+00
11	1.83E-05	0.132688528	11	4.48E-01
9	2.45E+00	-0.03191676	9	1.30E+00
1	5.28E-01	-0.011009864	1	6.16E-01
7	1.48E-01	-0.384311498	7	7.20E+00
37	4.13E-08	-0.078688399	37	4.14E+01
12	3.20E-06	0.305235404	12	1.11E-01
74	5.05E-10	-0.281765049	74	1.28E+07
2	1.17E+00	-1	2	1.08E+01

11	1.92E+00	-0.076271573	11	2.16E+00
27	9.81E+00	-0.481851406	27	9.20E+03
2	3.50E-01	0.243707367	2	3.39E-01
14	1.54E-04	0.607937373	14	5.74E-03
9	2.70E-04	2	9	7.02E-07
9	8.83E-09	2	9	2.35E-06
5	7.14E-03	0.323930655	5	2.00E-01
3	1.21E-02	-0.001429919	3	6.96E-01
12	3.47E-04	0.172746666	12	3.23E-01
9	1.12E-01	-0.082307393	9	1.79E+00
8	1.60E-01	0.166249275	8	3.69E-01
13	9.87E-01	0	13	1.40E+00
1	5.36E-01	0	1	6.02E-01
13	9.95E-01	0	13	1.40E+00
1	5.64E-01	-0.016770956	1	6.24E-01
10	5.14E+00	-0.284143181	10	8.25E+00
5	1.10E+00	-0.473805866	5	6.05E+00
7	2.31E+00	0.121483635	7	4.79E-01
5	1.32E+00	-0.189371085	5	1.79E+00
10	1.90E+01	0.40885153	10	6.51E-02
11	2.32E+02	0.228094965	11	2.18E-01
3	9.17E-01	-0.165284892	3	1.17E+00
6	2.30E+00	-0.033459033	6	1.00E+00
7	5.13E+02	-0.034790679	7	1.11E+00
1	5.68E-01	-0.013574552	1	6.19E-01
18	1.04E-04	-0.047986042	18	3.42E+00
5	1.59E-02	-0.159088748	5	1.57E+00
3	4.23E-01	-0.064191704	3	8.50E-01
6	9.36E-02	-0.591165632	6	1.48E+01
2	3.40E-02	-0.579513817	2	3.00E+00
6	2.25E+00	-0.278245285	6	3.27E+00
4	7.32E-01	-0.020025029	4	8.01E-01
13	2.09E+03	2	13	3.33E-07
6	8.86E-01	0.174692589	6	3.69E-01
5	1.14E+01	-0.594782828	5	1.01E+01
12	4.67E+01	-0.670034372	12	2.91E+02
7	1.45E+01	-0.886119137	7	1.06E+02
7	1.09E+02	-0.611279851	7	2.43E+01
11	9.10E+00	-0.808260153	11	5.34E+02
14	4.36E+00	0.022943454	14	1.22E+00
224	2.84E+14	0.789716999	224	2.49E-36
4	7.54E+00	0.850837543	4	3.10E-02
5	4.26E-01	-0.009713333	5	8.31E-01
5	1.05E+01	-0.209242821	5	1.95E+00
3	4.63E-01	-0.132128891	3	1.06E+00
10	1.88E+00	-0.185292814	10	4.13E+00
1	5.36E-01	-0.019893921	1	6.28E-01

8	1.32E+01	-0.713462249	8	6.64E+01
5	3.58E+01	-0.673382995	5	1.42E+01
4	6.35E+01	-0.553107562	4	5.86E+00
14	8.06E-01	-0.084688916	14	3.26E+00
26	3.50E+00	0.018708721	26	2.60E+00
36	1.78E+04	-0.332455868	36	7.79E+03
4	1.83E-02	-0.841519243	4	1.72E+01
7	3.85E+00	-0.191198757	7	2.56E+00
5	1.63E-01	0.264294304	5	2.58E-01
2	5.99E-01	-0.082023253	2	8.02E-01
15	1.00E-04	2	15	2.03E-07
3	4.73E-01	0.061128874	3	5.70E-01
7	4.58E-02	0.675276635	7	2.46E-02
5	3.05E-04	1	5	1.53E-03
3	2.99E-01	0.020794458	3	6.48E-01
7	8.52E+01	1	7	3.23E-03
6	8.57E+00	1	6	1.41E-03
13	1.76E+00	-0.095412379	13	3.18E+00
8	7.19E-01	-0.002123976	8	9.97E-01
14	6.01E-02	0.007263472	14	1.40E+00
6	4.48E-02	2	6	2.01E-04
12	6.83E-01	-0.042699043	12	1.84E+00
18	7.25E-02	0.07025217	18	8.97E-01
2	1.09E-01	-0.370921261	2	1.73E+00
22	1.36E-03	-0.136089727	22	1.65E+01
10	5.80E-04	1	10	7.22E-05
7	7.08E-02	0.314965616	7	1.70E-01
23	6.94E-01	-0.289464109	23	1.64E+02
60	2.72E+12	-0.058533223	60	2.80E+02
11	5.65E+00	-0.072387701	11	2.10E+00
13	6.72E+03	-1	13	4.48E+05
12	3.35E+01	-1	12	9.22E+03
8	9.23E-01	0.131548127	8	4.53E-01
1	4.40E-01	0.050283574	1	5.41E-01
25	1.09E+00	-0.314377432	25	3.77E+02
17	1.59E-04	0.811889299	17	2.93E-04
3	4.76E-02	0.011135321	3	6.69E-01
15	4.05E+00	-0.612004618	15	6.08E+02
38	9.62E-02	0.040266682	38	3.32E+00
10	6.07E+01	0.224726082	10	2.36E-01
9	1.41E+00	0.281359358	9	1.72E-01
4	5.92E-01	0.001054813	4	7.40E-01
6	1.46E+00	-0.272014221	6	3.17E+00
36	4.33E+04	0.009321505	36	5.79E+00
6	2.84E-01	-0.812128105	6	4.28E+01
7	8.21E-01	0.211050429	7	2.96E-01
12	1.34E+05	-0.021380339	12	1.55E+00

14	8.19E+02	-0.308841294	14	2.54E+01
2	5.64E-01	-0.322156513	2	1.52E+00
9	2.92E+00	0.134233984	9	4.45E-01
4	1.42E+00	-0.173829432	4	1.42E+00
2	7.19E-01	-0.041697952	2	7.21E-01
8	7.65E-01	0	8	9.84E-01
8	1.21E-01	0.595301643	8	2.93E-02
6	2.27E-01	0.150639169	6	4.14E-01
4	7.70E-01	0.018716984	4	6.93E-01
6	4.87E-01	-0.124082881	6	1.56E+00
5	1.20E+00	-0.207164724	5	1.93E+00
5	1.72E+00	-0.354519211	5	3.63E+00
7	6.97E-02	-0.409067801	7	8.22E+00
15	1.43E-01	-0.106377432	15	4.52E+00
7	7.23E-01	-0.004261182	7	9.39E-01
11	4.01E-01	0.313459187	11	1.15E-01
1	5.36E-01	0.035205566	1	5.59E-01
4	6.26E-01	-0.029668659	4	8.30E-01
8	1.41E-03	-0.482899466	8	1.70E+01
25	8.23E-02	0.163856279	25	2.73E-01
6	2.91E-01	0.108963145	6	5.06E-01
4	4.88E-02	-0.173332426	4	1.42E+00
23	1.95E-09	0.245193614	23	9.05E-02
11	4.34E-03	0.296626875	11	1.30E-01
12	1.34E-01	0.241703575	12	1.85E-01
13	1.50E-01	-0.712261595	13	6.46E+02
8	9.65E-01	0.108554033	8	5.19E-01
5	7.67E-01	0.118148102	5	4.81E-01
10	1.53E+00	-0.298784854	10	9.14E+00
9	6.44E+01	-0.032622009	9	1.30E+00
13	1.72E+02	-0.209549451	13	8.50E+00
10	1.22E+00	-0.143571536	10	3.09E+00
13	6.97E+00	-1	13	2.51E+05
3	8.81E+00	-0.504559869	3	3.47E+00
3	1.03E+00	-0.318238092	3	1.91E+00
10	8.12E-01	-0.121239828	10	2.64E+00
13	5.34E+02	-0.23454723	13	1.05E+01
6	1.27E-02	0.367061977	6	1.46E-01
4	1.04E+00	-0.42307636	4	3.61E+00
9	1.60E+00	-0.280518752	9	6.44E+00
10	1.39E+01	-0.694254351	10	1.45E+02
4	1.31E+00	0.142304862	4	4.37E-01
12	2.96E+05	-0.205275747	12	6.84E+00
9	8.09E+00	0.135006109	9	4.42E-01
10	6.76E+00	-0.586839186	10	6.84E+01
18	1.36E+04	-0.051284473	18	3.55E+00
4	1.41E+00	-0.385634359	4	3.14E+00

13	7.02E+00	-0.403719584	13	4.53E+01
10	2.59E+01	-0.384114533	10	1.66E+01
14	1.74E+02	-0.309755256	14	2.56E+01
10	6.62E-01	-0.623575704	10	8.84E+01
4	1.05E+00	-0.156535275	4	1.33E+00
4	6.97E-01	0.349834852	4	2.01E-01
8	5.57E+01	-0.544351444	8	2.45E+01
1	5.36E-01	0	1	6.02E-01
4	2.81E+01	-0.039468547	4	8.61E-01
5	7.92E-01	0.006785505	5	7.75E-01
4	6.02E-01	-0.088939526	4	1.04E+00
8	3.75E+01	0.545858837	8	3.93E-02
6	7.34E+00	0.015223554	6	7.95E-01
6	3.96E+01	-0.595240678	6	1.51E+01
12	9.14E+03	-0.011820009	12	1.43E+00
12	1.60E+04	-0.312807673	12	1.63E+01
7	1.87E+00	0.320273614	7	1.65E-01
9	8.37E+01	-0.30076047	9	7.34E+00
8	4.38E+00	-0.328649383	8	6.85E+00
7	1.11E+05	-1	7	5.45E+02
7	3.55E+01	-0.484831085	7	1.23E+01
4	6.24E-01	-0.278647115	4	2.10E+00
4	1.24E+00	-0.992483992	4	3.02E+01
11	8.61E+02	0.0051633	11	1.17E+00
8	1.39E+01	0.099070737	8	5.49E-01
3	7.10E-01	-0.177127108	3	1.22E+00
5	9.97E-01	-0.006930805	5	8.21E-01
2	7.79E-01	-0.012605658	2	6.68E-01
13	7.82E+04	-0.677166345	13	4.77E+02
2	5.64E-01	-0.049976489	2	7.37E-01
6	9.65E-01	0.141413672	6	4.33E-01
11	5.06E+04	0.124732206	11	4.75E-01
3	1.05E+00	-0.152702437	3	1.13E+00
6	1.02E+00	-0.032215548	6	9.99E-01
3	3.60E+00	-0.311024919	3	1.87E+00
3	2.06E+00	-0.825623172	3	9.66E+00
15	4.06E+02	-0.845586809	15	5.86E+03
6	1.43E+00	-0.264526797	6	3.06E+00
4	6.97E-01	0.42149539	4	1.54E-01
14	2.88E+01	0.185875668	14	2.74E-01
8	2.65E+00	0.407216708	8	8.90E-02
4	2.79E+00	-0.107468396	4	1.11E+00
7	2.12E+00	-0.741731462	7	4.89E+01
5	3.31E-01	-0.750305064	5	1.97E+01
6	8.33E-01	0.563487598	6	5.66E-02
2	6.03E-01	-0.013647359	2	6.70E-01
14	5.02E+00	-0.696194736	14	8.80E+02

5	1.11E+00	0.259108079	5	2.63E-01
11	6.62E+04	-0.493060338	11	4.98E+01
7	1.41E+05	-0.436331236	7	9.51E+00
5	7.46E+03	-0.724576616	5	1.77E+01
2	1.38E+00	0.298312685	2	2.93E-01
7	1.39E-02	-0.124170217	7	1.79E+00
3	5.45E-01	-0.165864144	3	1.18E+00
4	3.43E-01	-0.162654478	4	1.36E+00
17	2.73E+00	-0.078383589	17	4.31E+00
4	1.10E+00	-0.005605767	4	7.59E-01
4	6.07E-01	-0.150533986	4	1.30E+00
8	2.09E-02	-0.178237157	8	2.82E+00
9	4.62E-01	0.02570298	9	8.95E-01
13	5.86E+00	-0.24591341	13	1.16E+01
11	3.24E-01	0.134824716	11	4.40E-01
12	4.09E+01	-0.446486273	12	4.79E+01
39	2.80E+08	-0.360341181	39	3.11E+04
20	4.17E+05	0.704337356	20	3.66E-04
9	5.01E-01	-0.190123902	9	3.60E+00
13	9.95E-01	-0.226537468	13	9.84E+00
19	6.87E-02	-0.233578145	19	3.41E+01
14	6.66E-01	-0.082510342	14	3.19E+00
4	1.08E+00	0.418160629	4	1.56E-01
8	2.90E-01	-0.138083149	8	2.22E+00
1	5.18E-01	-0.011822077	1	6.17E-01
5	3.68E-01	0.214965863	5	3.18E-01
2	1.17E+00	-0.275123098	2	1.34E+00
3	5.24E+01	-1	3	1.87E+01
3	1.63E+03	-1	3	2.58E+01
1	6.32E-01	-0.068641808	1	6.96E-01
7	8.38E+02	0.023768838	7	8.08E-01
2	1.20E+00	-0.321730009	2	1.51E+00
3	6.59E-01	0.009596356	3	6.72E-01
27	1.24E-05	1	27	1.89E-07
12	1.31E+03	-1	12	6.87E+04
5	3.24E+01	-0.664220963	5	1.36E+01
8	2.07E+01	-0.251027964	8	4.33E+00
3	2.69E+00	-0.594511304	3	4.62E+00
12	3.89E+01	-0.583409482	12	1.45E+02
26	5.35E-05	-0.332988025	26	6.42E+02
5	2.38E-02	0.313032137	5	2.09E-01
19	3.72E+11	-1	19	1.27E+06
4	2.69E+01	-0.632775282	4	7.89E+00
7	2.50E+00	0.225139938	7	2.75E-01
9	8.05E-01	0	9	1.06E+00
9	8.14E-01	0	9	1.06E+00
6	8.73E-01	-0.029032341	6	9.84E-01

10	3.24E-01	0.327620931	10	1.15E-01
13	3.25E+00	2	13	7.14E-08
1	4.96E-01	0.036789131	1	5.57E-01
5	4.59E+00	-0.762494521	5	2.08E+01
1	1.32E-01	-0.217249354	1	9.51E-01
4	3.91E+00	-0.615916762	4	7.41E+00
3	5.75E-01	-0.00572036	3	7.06E-01
5	6.31E-01	0	5	7.97E-01
9	1.86E-04	0.100951075	9	5.51E-01
5	6.93E-02	-0.044065808	5	9.63E-01
9	2.87E+03	0.276673503	9	1.78E-01
10	3.64E+01	0.000341584	10	1.13E+00
5	7.69E-01	-0.143244348	5	1.47E+00
3	4.35E-01	-0.08788783	3	9.17E-01
7	8.01E+00	-0.418933336	7	8.67E+00
2	5.37E-01	0	2	6.46E-01
5	1.00E+00	-0.099859578	5	1.22E+00
2	5.73E-01	0.570561555	2	1.42E-01
6	2.39E+01	0.172004565	6	3.73E-01
11	6.63E+01	0.042554528	11	8.82E-01
12	9.27E+02	-0.060601319	12	2.13E+00
3	5.40E-01	0	3	6.93E-01
6	5.57E+00	0.427536127	6	1.09E-01
9	6.70E+03	-0.15661588	9	2.90E+00
2	2.43E+00	-0.107898059	2	8.59E-01
5	5.01E-01	-0.284989168	5	2.70E+00
7	8.76E-02	-0.19236793	7	2.57E+00
33	7.72E-03	0.567655587	33	9.11E-05
26	9.96E-03	1	26	4.66E-08
22	5.37E-01	0.278170576	22	6.17E-02
7	9.65E-02	-0.2818921	7	4.16E+00
4	4.32E-01	-0.491350548	4	4.65E+00
10	4.12E-01	-0.223049216	10	5.38E+00
18	8.96E-01	-0.022567298	18	2.57E+00
4	5.01E-02	-0.260822871	4	1.97E+00
34	9.24E+00	-0.007404811	34	7.10E+00
1	5.32E-01	0.012721684	1	5.86E-01
19	6.15E-01	-0.016562477	19	2.60E+00
3	1.11E+01	0.198134565	3	3.68E-01
13	2.86E-02	0.221048592	13	2.08E-01
18	7.60E-02	0.144583359	18	3.87E-01
12	8.97E-01	-0.163512214	12	4.88E+00
16	6.92E-01	-0.373542976	16	7.91E+01
7	7.30E-01	0	7	9.18E-01
8	1.43E+02	-0.345234938	8	7.55E+00
3	8.86E-01	0.028126652	3	6.33E-01
6	5.97E-01	-0.076810159	6	1.24E+00

3	2.89E+01	-0.316284654	3	1.90E+00
11	2.41E+04	-0.838812208	11	6.72E+02
98	4.10E+02	0.108107435	98	1.49E+00
6	3.21E-03	-0.032820099	6	1.00E+00
8	8.57E-02	0.654619981	8	2.07E-02
4	5.85E-01	0.05764983	4	5.99E-01
3	4.68E-02	2	3	1.63E-03
2	4.75E-01	0.136393462	2	4.50E-01
5	2.75E+00	-0.160590058	5	1.58E+00
6	5.33E+00	0.585327193	6	5.10E-02
7	1.34E+00	-0.580209903	7	2.06E+01
14	7.12E+00	0.928881219	14	3.04E-04
16	4.91E+01	0.608187718	16	3.41E-03
12	6.49E+00	0.884171927	12	1.04E-03
9	1.15E+00	1	9	3.82E-04
6	4.04E+00	0.849627463	6	1.43E-02
11	2.64E+03	-0.398470746	11	2.44E+01
7	4.85E+00	-0.551948684	7	1.77E+01
6	4.15E+01	-0.381092385	6	5.36E+00
6	2.38E-01	0.425742642	6	1.10E-01
12	2.33E+02	1	12	2.41E-04
9	5.40E-01	0.104913998	9	5.37E-01
8	4.27E+00	1	8	8.46E-04
7	3.27E+01	0.546968542	7	4.89E-02
7	3.44E-01	0.080586995	7	5.96E-01
6	6.68E-01	-0.102399322	6	1.40E+00
2	7.30E-01	-0.175290826	2	1.03E+00
18	1.66E-02	-0.035763938	18	2.98E+00
42	4.36E+01	-0.020614435	42	1.77E+01
47	1.13E+03	-0.030126071	47	3.45E+01
16	7.99E-04	-0.306036782	16	3.97E+01
20	6.18E+00	-0.286387157	20	7.99E+01
19	1.55E+00	-0.473870843	19	5.90E+02
13	2.08E+04	-0.353587819	13	2.94E+01
6	2.66E+01	0.122214074	6	4.75E-01
1	5.26E-01	0.111080921	1	4.76E-01
3	1.01E+02	-0.034931346	3	7.74E-01
3	5.49E+02	-0.917344212	3	1.29E+01
4	6.67E+00	-0.119340663	4	1.16E+00
2	1.31E+00	-0.00772706	2	6.59E-01
12	1.20E+02	0.119532923	12	4.97E-01
44	4.51E-01	0.220868229	44	4.50E-02
2	5.64E-01	0	2	6.46E-01
4	7.79E-02	0.955807644	4	2.10E-02
8	5.16E+00	0.824320699	8	7.59E-03
2	5.64E-01	0.69620394	2	1.02E-01
11	6.87E+00	-0.189547253	11	5.06E+00

7	6.73E+00	0.162056836	7	3.85E-01
8	2.35E-01	-0.027740287	8	1.16E+00
6	1.28E+00	-0.39835198	6	5.83E+00
8	9.71E-01	-0.240349833	8	4.07E+00
8	4.76E+00	-0.704281728	8	6.29E+01
11	1.89E+01	-1	11	5.85E+03
8	3.47E+00	0.077924679	8	6.22E-01
11	1.13E+02	0.311789231	11	1.16E-01
9	6.50E+02	-0.039816271	9	1.37E+00
4	1.09E+00	0.237461187	4	3.06E-01
3	1.33E-01	0.273096459	3	2.90E-01
18	3.07E-13	1	18	3.18E-06
82	1.43E-04	0.055829124	82	1.37E+01
4	1.18E+02	-0.165099132	4	1.38E+00
10	8.63E-01	-0.027130261	10	1.37E+00
2	5.64E-01	0	2	6.46E-01
3	5.93E-01	0.011821074	3	6.67E-01
9	1.17E+00	-0.105277579	9	2.08E+00
5	1.54E+00	-0.150660328	5	1.52E+00
6	1.17E+03	-0.024158032	6	9.61E-01
8	1.69E+02	-0.164499175	8	2.60E+00
6	3.45E+03	0.181023767	6	3.58E-01
7	1.69E+01	-0.459173815	7	1.08E+01
5	5.75E+00	-0.013696218	5	8.45E-01
7	1.72E+01	-0.212607824	7	2.87E+00
6	3.53E-01	0.011990899	6	8.07E-01
5	1.18E-01	-0.102172945	5	1.23E+00
9	3.42E+02	-0.819485509	9	2.08E+02
13	6.98E+02	-0.000737305	13	1.41E+00
5	6.27E-01	-0.20493282	5	1.91E+00
3	6.99E-01	-0.092226788	3	9.30E-01
10	7.97E+02	-0.725759052	10	1.80E+02
9	8.44E-01	0.002602895	9	1.04E+00
13	1.10E+02	-0.10470727	13	3.45E+00
14	6.98E+01	-0.194900535	14	8.94E+00
9	3.65E+00	-0.594435453	9	4.87E+01
8	2.13E+01	0.512767275	8	4.77E-02
14	1.28E+00	-0.348531	14	3.65E+01
11	5.79E-01	0.142712422	11	4.15E-01
14	7.25E-02	0.283970715	14	1.11E-01
5	5.28E-02	0.036408669	5	6.82E-01
19	3.98E-10	1	19	1.42E-05
10	4.41E-08	0.993529521	10	1.10E-03
20	1.97E-03	-0.134838122	20	1.22E+01
16	2.13E-07	0.431496087	16	2.08E-02
2	2.08E-03	2	2	5.10E-03
22	4.28E-09	-0.121267915	22	1.35E+01

33	1.53E-11	0.572565566	33	8.28E-05
6	4.99E-06	1	6	6.15E-03
17	1.72E-05	1	17	3.25E-07
8	1.41E+00	-0.137651898	8	2.22E+00
5	1.59E-02	0.751780667	5	3.20E-02
13	1.46E-05	0.759664268	13	2.01E-03
6	8.24E-01	0.036849038	6	7.16E-01
13	3.58E+01	-0.04504853	13	2.06E+00
16	2.40E-01	-0.030570645	16	2.36E+00
8	7.65E-01	-0.049206108	8	1.32E+00
3	5.15E-01	0.163573101	3	4.11E-01
11	4.17E-01	-0.306860935	11	1.22E+01
7	1.49E-01	-0.474295575	7	1.17E+01
8	4.24E-02	0.042884319	8	7.64E-01
6	8.09E-01	0.077015387	6	5.90E-01
9	5.29E+04	-0.514519304	9	2.91E+01
5	5.96E+00	0.398109863	5	1.45E-01
4	8.76E+00	-1	4	7.58E+01
5	2.34E+00	-1	5	3.04E+02
3	7.72E+00	-2	3	1.48E+02
11	6.55E-04	-0.186895878	11	4.96E+00
4	4.20E-01	0.063862778	4	5.86E-01
3	3.97E-01	0.089540378	3	5.21E-01
8	6.92E-01	0.078807067	8	6.18E-01
5	6.57E-01	0	5	7.97E-01
22	1.95E-01	-0.084662539	22	8.25E+00
4	6.24E-01	0	4	7.43E-01
31	8.46E-03	0.125836511	31	4.91E-01
8	2.06E-01	0	8	9.84E-01
16	1.61E+00	0.003166317	16	1.67E+00
5	7.03E-01	-0.284536029	5	2.69E+00
5	1.20E-01	-0.506084547	5	6.94E+00
3	9.97E-01	-0.297339464	3	1.79E+00
9	1.87E+00	-0.138003198	9	2.57E+00
2	7.69E-01	-0.0468169	2	7.31E-01
16	1.32E+00	-0.110784907	16	5.37E+00
1	5.39E-01	-0.008636462	1	6.13E-01
9	1.35E+00	-0.154614682	9	2.86E+00
5	4.40E-01	0.166907871	5	3.91E-01
10	1.05E+00	-0.003242844	10	1.16E+00
4	2.18E-01	0.561747298	4	9.13E-02
31	1.13E-01	0.125903882	31	4.90E-01
8	1.22E+00	-0.097113784	8	1.75E+00
6	2.07E+01	-0.255599995	6	2.93E+00
21	4.71E+01	-0.449466495	21	8.28E+02
14	1.16E+00	0.363520009	14	5.38E-02
15	2.51E-03	0.537358753	15	8.79E-03

6	1.99E-01	0.031940307	6	7.33E-01
7	8.21E-01	0.084692029	7	5.83E-01
15	1.68E+00	0.072900666	15	7.94E-01
6	2.94E-01	-0.027449073	6	9.76E-01
39	5.67E-01	0.107602471	39	7.55E-01
5	3.92E-01	0.016806957	5	7.42E-01
4	2.11E-01	-0.158845984	4	1.34E+00
1	5.36E-01	0	1	6.02E-01
12	1.49E+00	-0.130040397	12	3.72E+00
5	1.35E-01	1	5	3.08E-03
12	7.19E+00	-0.151973581	12	4.45E+00
4	1.50E-01	2	4	1.35E-03
7	9.89E+03	-0.213058305	7	2.87E+00
15	6.70E-01	-0.107566516	15	4.57E+00
2	5.56E-01	-0.014237164	2	6.71E-01
2	5.53E-01	7.61E-05	2	6.46E-01
5	2.81E-01	-0.142763974	5	1.47E+00
2	5.33E-01	-0.021926255	2	6.84E-01
130	2.02E+10	0.160357939	130	5.00E-02
30	1.88E+02	-0.191650036	30	1.41E+02
9	8.08E-01	0.019320019	9	9.32E-01
19	8.50E+00	-0.208565481	19	2.53E+01
47	1.47E-02	0.063089217	47	2.77E+00
15	1.81E-04	0.204503656	15	2.22E-01
6	4.00E-01	-0.208763431	6	2.34E+00
19	1.45E+00	-0.041410399	19	3.49E+00
11	1.24E+00	0.061576694	11	7.65E-01
28	1.51E+00	0.134056876	28	4.25E-01
9	5.87E+02	0.12490875	9	4.72E-01
3	4.55E-01	0	3	6.93E-01
6	8.44E-01	0.438849139	6	1.03E-01
10	8.77E-02	0.192868569	10	2.94E-01
3	5.71E-01	0.078033062	3	5.40E-01
10	2.88E-01	-0.165114355	10	3.59E+00
3	6.06E-01	0	3	6.93E-01
25	2.82E-02	-0.075344826	25	1.02E+01
12	3.47E-02	0.512293945	12	2.09E-02
7	3.87E-01	-0.086580481	7	1.46E+00
6	2.06E+01	-0.530333701	6	1.10E+01
9	1.60E+02	-0.515268936	9	2.92E+01
7	8.33E+00	-0.47606247	7	1.18E+01
3	3.60E+00	-0.707447383	3	6.62E+00
1	5.47E-01	-0.02121048	1	6.29E-01
11	3.76E-01	-0.033599385	11	1.57E+00
61	3.51E+00	-0.034704432	61	1.36E+02
7	4.92E+00	-0.315510355	7	4.98E+00
8	7.65E-01	0	8	9.84E-01

53	8.90E+03	-0.253479953	53	5.04E+04
5	5.94E+00	-0.512328048	5	7.13E+00
7	3.75E+00	6.37E-05	7	9.17E-01
6	2.48E+00	-0.06318572	6	1.16E+00
3	1.97E+01	-0.620713576	3	5.02E+00
2	6.05E-01	0.014723901	2	6.21E-01
8	7.39E+00	0.013960738	8	9.07E-01
13	3.68E-02	0.468841793	13	2.47E-02
6	6.21E-01	2	6	4.89E-04
6	1.42E+00	-0.443390546	6	7.24E+00
10	8.46E+03	-0.595744352	10	7.27E+01
19	9.30E+00	-0.124110834	19	9.30E+00
15	1.44E+00	-0.634349413	15	7.56E+02
62	3.97E+10	-0.564289514	62	1.83E+10
8	4.50E+00	-0.081993329	8	1.60E+00
3	6.05E-01	0	3	6.93E-01
3	2.85E-01	0	3	6.93E-01
4	7.59E+00	-0.199234426	4	1.56E+00
2	1.65E+00	0.356177053	2	2.51E-01
1	1.20E-01	-0.28943181	1	1.11E+00
2	1.72E-02	0.114000496	2	4.77E-01
5	4.90E-03	0.052823557	5	6.36E-01
9	1.17E+02	-0.159359305	9	2.95E+00
1	6.92E-01	-0.097820344	1	7.40E-01
5	1.84E+00	-0.355117045	5	3.64E+00
2	5.46E-01	0.017806178	2	6.16E-01
16	2.70E-01	2	16	4.05E-09
1	5.01E-01	0.438856458	1	2.39E-01
5	2.14E+00	-0.171694988	5	1.66E+00
6	1.69E+00	-0.116565017	6	1.50E+00
9	4.57E+04	-0.948060201	9	4.75E+02
15	1.55E-05	0.628847425	15	3.62E-03
14	4.23E-03	-0.06933285	14	2.83E+00
20	1.25E+00	0.111715129	20	5.72E-01
5	2.59E-01	-0.233748979	5	2.17E+00
14	2.32E+03	-0.695321327	14	8.73E+02
8	4.08E-01	-0.469707239	8	1.57E+01
21	7.05E+00	-0.196299771	21	3.12E+01
5	5.86E-01	0.090666277	5	5.41E-01
13	6.14E-02	0.930955101	13	4.61E-04
19	1.31E-01	0.13881984	19	4.11E-01
1	5.36E-01	0	1	6.02E-01
6	6.01E-01	0.037836737	6	7.13E-01
11	8.84E-01	-0.023933512	11	1.46E+00
34	2.11E-02	-0.110787147	34	5.61E+01
1	5.36E-01	-0.009679801	1	6.14E-01
1	4.52E-01	-0.329223657	1	1.20E+00

8	6.54E+02	-1	8	5.77E+02
3	6.61E-01	-1	3	2.32E+01
5	3.50E-01	-0.697476058	5	1.57E+01
1	2.32E-01	-0.323981064	1	1.19E+00
12	1.08E-02	-0.457125693	12	5.22E+01
12	2.30E-01	-0.045590889	12	1.88E+00
3	7.23E+00	-0.504763503	3	3.47E+00
12	1.09E-01	0.043761375	12	9.16E-01
11	1.88E-01	-0.166368073	11	4.25E+00
50	9.47E-10	0.119740021	50	6.08E-01
3	8.31E-01	-0.389637043	3	2.40E+00
14	2.74E-02	0.786257605	14	1.12E-03
13	8.48E+00	-0.154865636	13	5.31E+00
12	1.02E+02	-0.845222971	12	1.20E+03
7	8.41E-01	-0.105154575	7	1.61E+00
6	6.91E-01	0	6	8.55E-01
13	1.56E-01	-0.067741488	13	2.51E+00
5	6.57E-01	0	5	7.97E-01
8	8.01E-01	0.004054613	8	9.61E-01
7	5.15E-03	-0.231413057	7	3.17E+00
9	6.82E+01	-0.824294207	9	2.14E+02
4	4.22E+00	-0.405501939	4	3.38E+00
7	9.39E-01	-0.46263057	7	1.10E+01
9	7.92E+00	-0.785453029	9	1.67E+02
31	4.86E-01	0.554962984	31	1.85E-04
9	8.09E-07	2	9	6.06E-05
7	5.61E+00	-0.300679251	7	4.60E+00
4	1.75E+00	-0.267542919	4	2.02E+00
42	2.40E+03	-0.362312513	42	7.25E+04
7	2.91E+04	-0.990932943	7	1.86E+02
8	1.17E+01	-0.302403717	8	5.87E+00
12	4.82E+03	0.228972272	12	2.05E-01
7	3.25E+00	-0.31868836	7	5.06E+00
5	8.31E+02	-0.949349707	5	4.62E+01
26	3.02E+05	-0.342763159	26	7.48E+02
64	3.66E+12	-0.687152995	64	3.34E+12
6	1.02E-04	0.371461938	6	1.43E-01
20	1.35E+00	0.027826162	20	1.62E+00
22	5.66E-02	0.277116792	22	6.26E-02
7	1.51E+00	1	7	3.18E-04
13	5.72E-01	0.280481327	13	1.25E-01
6	1.20E+00	-0.122786168	6	1.55E+00
21	1.13E+01	-0.777169492	21	5.77E+04
34	5.80E-07	-0.203489382	34	3.58E+02
16	7.10E-03	-0.341725889	16	5.71E+01
12	4.42E-01	-0.28105099	12	1.26E+01
19	5.43E-01	-0.123243978	19	9.20E+00

29	1.04E+00	0.414103845	29	3.35E-03
6	1.06E+01	0.856624099	6	1.38E-02
66	1.59E+09	-0.287127136	66	2.63E+06
2	5.80E-01	-0.000361094	2	6.46E-01
6	2.16E-01	-0.136314245	6	1.65E+00
9	1.97E+00	0.581801984	9	2.49E-02
4	4.84E+00	2	4	7.50E-04
8	7.73E-01	0.000929426	8	9.79E-01
20	2.38E+00	-0.04949329	20	4.23E+00
12	3.85E-01	0.05273965	12	8.52E-01
4	5.68E-01	-0.059265343	4	9.27E-01
37	1.14E+01	0.095313326	37	9.62E-01
18	7.56E+00	-0.154740688	18	1.15E+01
55	3.30E-08	0.2410824	55	1.39E-02
24	3.69E+00	-0.116164043	24	1.65E+01
115	1.07E+01	0.217012378	115	1.72E-03
4	7.77E-01	-0.013054453	4	7.80E-01
39	3.08E-03	-0.336917429	39	1.83E+04
16	3.46E-02	0.063357401	16	9.03E-01
11	2.14E-01	0.10491247	11	5.52E-01
9	6.31E+00	-0.032970936	9	1.31E+00
12	2.84E-01	0.152116524	12	3.82E-01
8	1.34E-01	0.112291832	8	5.07E-01
2	6.41E-01	0.429332612	2	2.07E-01
19	1.81E-01	0.063875399	19	9.99E-01
20	1.04E+00	-0.105020933	20	8.42E+00
7	1.95E+00	0.394488614	7	1.11E-01
12	2.52E+00	-0.214636586	12	7.37E+00
9	4.79E-01	0.23578874	9	2.31E-01
5	1.76E-01	0.424557485	5	1.30E-01
6	2.34E+00	-0.179525539	6	2.03E+00
15	3.12E+01	-0.124573017	15	5.39E+00
9	9.49E-01	0.433982272	9	6.44E-02
11	3.61E+02	2	11	2.07E-06
8	9.71E-03	0.609464927	8	2.70E-02
10	2.82E-01	0.162948505	10	3.63E-01
1	5.63E-01	-0.103065118	1	7.48E-01
6	1.52E+00	-0.01385145	6	9.14E-01
2	6.01E-01	-0.02618589	2	6.92E-01
10	1.33E-01	-0.502392526	10	3.79E+01
5	2.35E-02	-0.531451555	5	7.73E+00
25	3.85E+01	0.57912819	25	5.12E-04
13	2.51E-01	0.164769998	13	3.38E-01
15	6.81E+01	-0.525631329	15	2.63E+02
6	1.23E-01	-0.460947055	6	7.88E+00
15	9.39E+00	0.645160941	15	3.09E-03
4	4.72E+00	0.359300866	4	1.94E-01

3	4.08E+00	1	3	1.81E-02
23	6.28E-01	-0.07811075	23	8.45E+00
11	3.63E-01	-0.23389579	11	7.07E+00
2	5.41E-01	-0.057569159	2	7.52E-01
27	3.11E-01	-0.138358111	27	3.52E+01
6	6.65E-01	-0.330940644	6	4.21E+00
2	1.65E-01	0.345609035	2	2.58E-01
16	3.51E-03	0.960479894	16	9.25E-05
10	5.58E-02	-0.270070546	10	7.48E+00
5	3.79E-02	0.698270947	5	4.03E-02
22	1.25E-05	-0.059575973	22	5.88E+00
15	1.40E-01	-0.266055341	15	2.12E+01
7	2.45E-01	-0.184754553	7	2.47E+00
3	4.63E-01	-0.082426437	3	9.01E-01
18	1.12E-03	-0.826648098	18	2.31E+04
1	4.99E+00	-0.592437091	1	2.10E+00
12	2.12E+00	-0.305658715	12	1.54E+01
22	3.63E+04	0.861582501	22	2.35E-05
13	1.70E+01	0.597867734	13	8.12E-03
8	3.93E+00	0.888210132	8	5.21E-03
46	6.17E+06	-2	46	1.85E+20
8	3.11E-01	-0.2860878	8	5.33E+00
11	2.70E+00	-0.149370401	11	3.74E+00
138	6.11E-18	0.026224419	138	1.23E+03
13	1.51E+05	-0.730140544	13	7.53E+02
78	4.87E-12	0.176162738	78	5.95E-02
8	1.14E+01	-0.916986302	8	2.21E+02
7	8.52E+00	-0.935572268	7	1.38E+02
6	3.44E+00	-0.169415745	6	1.93E+00
2	5.75E-01	-0.003064307	2	6.51E-01
17	2.72E-10	0.438876398	17	1.63E-02
7	6.06E-01	0.114683971	7	4.96E-01
28	1.41E+06	-0.661772045	28	2.61E+05
13	3.14E+03	-0.593677807	13	2.33E+02
37	3.07E+11	-0.395796868	37	3.94E+04
7	1.03E+02	0.397750741	7	1.09E-01
28	4.47E-01	-0.267599365	28	3.55E+02
14	3.02E-01	0.228314344	14	1.86E-01
11	1.71E+03	0.277849776	11	1.50E-01
5	7.69E-02	-0.983257728	5	5.34E+01
5	1.14E-02	-1	5	9.02E+01
19	1.63E-01	0.490622342	19	6.32E-03
5	1.65E-01	2	5	6.79E-04
47	1.01E-02	0.422410737	47	1.67E-04
5	2.68E-01	0.066878561	5	5.99E-01
5	5.06E-02	0.19585955	5	3.45E-01
9	4.38E+01	-0.038765051	9	1.36E+00

7	1.04E+01	-0.04192349	7	1.15E+00
4	3.04E+00	-0.460724701	4	4.15E+00
10	8.62E+00	-0.569117098	10	6.04E+01
12	1.19E+04	-0.262113686	12	1.08E+01
8	1.19E-01	-0.058641233	8	1.39E+00
1	5.02E-01	2.28E-05	1	6.02E-01
3	1.55E+00	0	3	6.93E-01
10	1.04E+00	-0.247314139	10	6.38E+00
7	1.56E+00	0.297340133	7	1.86E-01
10	2.42E+01	0.360694727	10	9.12E-02
6	2.05E+01	-0.634122713	6	1.82E+01
7	3.23E+02	-1	7	3.93E+02
3	6.86E-01	-0.167498252	3	1.18E+00
4	3.93E+00	0.342088293	4	2.07E-01
15	4.21E+01	-0.199036425	15	1.11E+01
7	4.86E+00	-0.711662386	7	4.16E+01
6	3.76E-01	0.337819593	6	1.68E-01
6	2.33E-01	0.091821644	6	5.50E-01
30	3.41E+05	2	30	3.02E-15
13	1.15E+01	2	13	2.71E-08
18	8.12E+05	-0.168477321	18	1.34E+01
8	2.97E+02	-0.792971094	8	1.06E+02
4	5.67E+01	0.000354357	4	7.42E-01
21	2.82E+06	-0.584787864	21	4.77E+03
11	8.31E-04	0.563732493	11	1.74E-02
9	1.00E+00	-0.309260293	9	7.75E+00
12	2.06E-02	-0.119532847	12	3.42E+00
7	5.24E-01	0.110390909	7	5.08E-01
1	5.45E-01	0	1	6.02E-01
4	3.69E-01	-0.095016931	4	1.06E+00
5	2.05E+02	-0.817619263	5	2.63E+01
8	1.03E+01	-0.326489909	8	6.76E+00
6	1.50E+00	-1	6	4.05E+02
9	1.59E+00	0.15581769	9	3.87E-01
16	6.87E+01	0.176200752	16	2.84E-01
2	5.86E-01	0.198380869	2	3.82E-01
5	1.56E+00	-0.682362224	5	1.47E+01
10	5.43E+00	-0.619555252	10	8.59E+01
11	8.92E+00	-0.28568352	11	1.04E+01
22	1.33E+03	0.068266093	22	1.05E+00
8	7.65E-01	0.00063472	8	9.81E-01
14	9.54E-01	0.140649595	14	4.14E-01
3	8.51E-01	0.236150884	3	3.26E-01
14	1.77E+00	0.435817017	14	2.78E-02
6	3.46E-01	-0.177396481	6	2.01E+00
4	2.82E-01	-0.115427117	4	1.14E+00
6	5.30E-01	-0.410001592	6	6.17E+00

31	2.18E+00	-0.25077761	31	4.97E+02
7	6.59E-01	-0.51012871	7	1.41E+01
6	3.46E+00	-0.002231979	6	8.65E-01
54	2.37E+12	-0.374434037	54	2.58E+06
11	1.23E+00	-0.221508436	11	6.44E+00
17	1.20E-07	0.60270186	17	2.79E-03
14	7.10E-01	0.146555093	14	3.92E-01
8	4.11E-01	0.276445574	8	1.93E-01
43	6.31E-02	-0.054677541	43	4.49E+01
16	1.11E+08	-0.509957897	16	3.20E+02
3	7.82E-01	-0.019620565	3	7.38E-01
14	2.70E+00	0.009473549	14	1.38E+00
6	4.94E+00	0.018293751	6	7.83E-01
7	1.45E+00	-0.075697784	7	1.38E+00
6	1.50E-01	0.240855974	6	2.68E-01
4	6.32E-01	0.025084723	4	6.77E-01
3	7.56E-01	-0.08258055	3	9.02E-01
4	4.49E-01	0	4	7.43E-01
3	9.63E-01	-0.166438084	3	1.18E+00
4	8.93E-01	0.074410807	4	5.63E-01
10	1.27E+06	-1	10	2.04E+03
16	1.01E+09	-1	16	3.48E+06
4	1.73E+01	-0.856041779	4	1.82E+01
4	6.62E-01	-0.756300769	4	1.25E+01
4	6.21E-01	0.09797526	4	5.16E-01
18	1.09E-02	-0.619360036	18	2.21E+03
8	2.79E-01	-1	8	6.93E+02
4	1.79E+00	-0.011051544	4	7.75E-01
4	8.38E-01	-0.001950157	4	7.49E-01
2	3.75E-01	-0.013540665	2	6.69E-01
4	1.37E-01	0.230797474	4	3.14E-01
3	1.39E-01	-0.009910797	3	7.15E-01
7	6.01E-01	-0.082062034	7	1.42E+00
7	8.73E+01	0.021708431	7	8.17E-01
5	5.61E+00	-0.328964778	5	3.25E+00
11	3.33E-01	0.123808264	11	4.79E-01
15	1.08E-02	0.065337181	15	8.54E-01
18	1.71E+01	-0.514921817	18	6.77E+02
4	1.02E+01	-1	4	3.44E+01
7	2.79E+01	-0.399659335	7	7.82E+00
4	2.06E-01	0.186365942	4	3.71E-01
16	5.12E-02	0.15121905	16	3.67E-01
3	6.43E-01	0	3	6.93E-01
5	4.99E-01	-0.112821772	5	1.29E+00
9	3.49E-04	-0.12011341	9	2.29E+00
3	2.86E+00	-0.774227692	3	8.20E+00
17	1.65E+01	-0.222821042	17	2.05E+01

12	7.09E-01	0.051989603	12	8.57E-01
9	9.10E-01	-0.576679327	9	4.34E+01
3	8.34E-01	-0.183429182	3	1.24E+00
3	2.72E-01	-2	3	4.64E+02
8	1.24E+05	-1	8	1.12E+03
9	2.58E+00	-1	9	1.09E+03
2	1.79E-01	-0.087715571	2	8.15E-01
8	6.96E-01	-0.050504851	8	1.33E+00
3	5.72E-01	-0.090217125	3	9.24E-01
12	6.22E+00	-0.26248609	12	1.08E+01
4	6.27E-01	0.002383741	4	7.37E-01
13	4.00E-03	0.610681587	13	7.27E-03
1	3.85E-01	0.134989376	1	4.53E-01
13	6.27E+00	0.186752091	13	2.80E-01
14	2.44E+00	0.002748872	14	1.46E+00
9	7.16E+00	-0.085303788	9	1.83E+00
3	5.80E-01	0.01246057	3	6.66E-01
4	5.04E+00	0.144848206	4	4.33E-01
14	5.84E+02	-0.094746353	14	3.57E+00
8	2.26E-01	0.520455259	8	4.56E-02
12	2.49E-03	-0.134291732	12	3.85E+00
4	1.17E+00	-0.124430254	4	1.18E+00
33	2.85E+02	-0.207587431	33	3.24E+02
17	2.15E+00	-0.38622775	17	1.19E+02
6	5.02E-01	-0.420746161	6	6.49E+00
23	3.31E+01	-0.055586999	23	6.16E+00
1	5.36E-01	0	1	6.02E-01
2	6.93E-01	0.019489791	2	6.13E-01
14	9.11E+05	-0.39530738	14	5.60E+01
9	1.37E+00	0.052484519	9	7.53E-01
9	1.35E+00	-0.204775708	9	3.95E+00
1	5.84E-01	2.02E-05	1	6.02E-01
7	9.82E+00	-0.44904339	7	1.02E+01
4	3.72E+00	-0.029960668	4	8.31E-01
5	3.86E+00	-0.313553914	5	3.05E+00
4	2.86E+03	-0.166993168	4	1.39E+00
1	5.62E-01	0.045108496	1	5.47E-01
3	6.47E-01	-0.089507974	3	9.22E-01
12	3.59E-01	-0.433709772	12	4.32E+01
3	1.22E-02	-0.894262266	3	1.20E+01
1	3.29E-01	-0.308043172	1	1.15E+00
3	9.65E-01	-0.37475419	3	2.29E+00
2	9.06E+00	-0.850987721	2	6.15E+00
6	2.38E+00	-0.192121897	6	2.16E+00
25	1.35E+04	0.233048838	25	9.59E-02
7	6.66E+02	-0.405087519	7	8.05E+00
6	1.99E+00	-0.133487114	6	1.63E+00

6	3.35E+00	-0.190725095	6	2.14E+00
38	2.25E-02	-0.087317443	38	5.62E+01
16	1.91E-01	-0.170342799	16	9.88E+00
4	3.94E+00	1	4	3.27E-03
7	2.18E+00	0.000508421	7	9.15E-01
5	6.75E-01	-0.01376773	5	8.46E-01
6	9.21E-01	-0.66841253	6	2.14E+01
10	1.30E+00	-0.220173931	10	5.28E+00
4	7.98E+00	-0.071792246	4	9.72E-01
1	5.55E-01	0	1	6.02E-01
3	6.03E-01	0	3	6.93E-01
4	2.03E-01	0.136695955	4	4.46E-01
1	5.36E-01	0.055520385	1	5.35E-01
5	1.56E+00	-0.167322874	5	1.63E+00
15	1.51E+02	-0.410900078	15	8.66E+01
3	6.02E-01	0.039424533	3	6.11E-01
6	2.91E+00	0.212379903	6	3.07E-01
12	1.56E+00	0.158928478	12	3.62E-01
35	1.50E+05	-0.224359392	35	6.59E+02
13	3.23E-01	-0.017617518	13	1.63E+00
8	3.85E+03	0.017739965	8	8.87E-01
8	1.45E+00	-0.036683989	8	1.22E+00
13	2.68E-02	0.142367391	13	4.10E-01
2	5.64E-01	-0.002367757	2	6.50E-01
4	3.90E-02	-0.354688547	4	2.79E+00
2	6.72E-01	-0.039840813	2	7.18E-01
4	1.02E+00	-0.001758192	4	7.48E-01
5	7.23E-01	-0.021516633	5	8.74E-01
4	1.23E+00	0.216314742	4	3.31E-01
4	6.38E-01	0	4	7.43E-01
6	1.89E+00	-0.176615534	6	2.00E+00
1	5.50E-01	0.049775738	1	5.42E-01
13	6.74E+05	0.24104802	13	1.75E-01
9	8.76E+03	-0.092211277	9	1.91E+00
5	1.93E+01	-1	5	2.01E+02
10	2.71E+02	-0.189386993	10	4.25E+00
2	1.77E+00	-0.484116965	2	2.33E+00
5	3.17E+00	-0.744308146	5	1.92E+01
6	1.31E+00	0.253709372	6	2.52E-01
6	3.47E+01	-0.794285674	6	3.93E+01
5	2.62E+01	-1	5	1.06E+02
2	7.28E-01	0.256315476	2	3.27E-01
4	3.63E-01	-0.203345476	4	1.59E+00
3	8.06E+01	-1	3	6.45E+01
5	4.68E+00	0.164648662	5	3.94E-01
2	9.96E-01	-1	2	1.47E+01
6	1.04E+00	-0.723132818	6	2.79E+01

42	2.84E+03	-0.021816381	42	1.83E+01
4	1.16E+01	-0.694339146	4	9.93E+00
5	7.57E-01	-0.058960862	5	1.03E+00
11	3.46E+01	-0.427577278	11	3.04E+01
57	1.73E+08	0.533079169	57	9.37E-07
27	1.34E+00	-0.139093111	27	3.56E+01
14	6.20E+00	-0.244619011	14	1.41E+01
2	4.01E-01	-0.028563898	2	6.97E-01
11	5.28E-01	-0.337083522	11	1.54E+01
7	3.92E-01	-0.394405039	7	7.60E+00
7	1.24E-01	-0.525344029	7	1.53E+01
6	3.72E+00	-0.060010041	6	1.14E+00
8	3.94E+00	-0.555110923	8	2.61E+01
10	2.66E+02	0.807919277	10	4.01E-03
9	9.62E+00	-0.573487095	9	4.25E+01
11	1.17E+04	0.410524518	11	5.53E-02
2	6.41E+00	-0.39684019	2	1.85E+00
1	5.31E-01	0.026253417	1	5.70E-01
15	9.57E+01	-0.409664218	15	8.55E+01
9	1.27E+00	-0.41430697	9	1.52E+01
10	2.76E+00	-0.327877657	10	1.12E+01
11	8.39E+00	-0.368563305	11	1.95E+01
13	9.30E+03	-0.356564417	13	3.02E+01
8	3.53E+01	0.28255564	8	1.86E-01
7	3.15E+02	0.057964886	7	6.73E-01
12	7.19E+00	-0.372495311	12	2.64E+01
3	4.41E+01	-0.538100119	3	3.86E+00
4	2.35E+00	-0.014623126	4	7.85E-01
4	1.62E+01	-0.443526022	4	3.89E+00
7	7.95E+00	-0.085898905	7	1.45E+00
8	2.46E+04	-0.114932525	8	1.94E+00
4	3.95E-01	0.083125261	4	5.45E-01
5	5.52E-01	0.184526799	5	3.62E-01
7	9.61E+00	-0.029523859	7	1.07E+00
7	6.10E+01	0.744162976	7	1.70E-02
8	1.84E+00	-0.034119364	8	1.20E+00
8	1.15E+01	-0.484606089	8	1.72E+01
17	1.22E+02	-0.601414977	17	1.21E+03
8	9.43E+01	0.001032351	8	9.78E-01
9	9.67E+01	-0.326062982	9	8.63E+00
3	7.23E-01	-0.694072273	3	6.35E+00
3	1.34E+00	-0.700067348	3	6.47E+00
5	6.48E+00	-0.414048076	5	4.68E+00
9	8.05E-01	0	9	1.06E+00
9	8.05E-01	0	9	1.06E+00
9	8.05E-01	-0.007181044	9	1.11E+00
8	1.16E+05	0.173252717	8	3.54E-01

6	4.65E-01	-0.160925903	6	1.86E+00
17	5.36E+01	-0.153516095	17	9.70E+00
3	1.15E+01	-0.426969097	3	2.71E+00
3	1.29E+00	-0.334679557	3	2.02E+00
3	4.30E-01	0.049971221	3	5.91E-01
4	2.42E+00	-0.365528302	4	2.91E+00
3	7.36E-01	-0.252441253	3	1.55E+00
2	4.16E-01	-0.667255424	2	3.78E+00
13	5.45E-02	0.698374356	13	3.42E-03
4	6.59E-01	-0.21616996	4	1.67E+00
3	1.79E-01	-0.173437575	3	1.20E+00
2	5.64E-01	0	2	6.46E-01
5	6.57E-01	-0.24360094	5	2.26E+00
3	4.20E-01	-0.069502234	3	8.65E-01
14	1.28E-02	-0.134009634	14	5.12E+00
8	3.16E-01	-0.575882891	8	2.95E+01
7	1.19E+00	-0.023645556	7	1.04E+00
7	4.68E+00	-0.413365879	7	8.41E+00
6	1.08E+00	-0.269818675	6	3.14E+00
4	5.66E+00	-0.57773617	4	6.42E+00
3	6.19E-01	0	3	6.93E-01
2	6.10E-01	0.008000672	2	6.32E-01
10	9.45E-01	-0.041943491	10	1.52E+00
8	1.00E+00	0.08226992	8	6.06E-01
7	9.72E-02	0.077509334	7	6.06E-01
120	1.66E+21	2	120	1.92E-42
6	1.80E+01	0.25212034	6	2.54E-01
3	6.03E-01	-0.009844261	3	7.15E-01
5	6.57E-01	0	5	7.97E-01
12	1.01E+02	0.001636696	12	1.29E+00
43	5.02E-02	0.11169498	43	7.15E-01
39	5.32E+01	-0.130029705	39	1.67E+02
13	1.40E+03	-0.440156611	13	6.20E+01
14	4.45E+03	-0.365274896	14	4.25E+01
13	8.28E+02	-1	13	8.47E+03
4	6.31E-01	-0.120239377	4	1.16E+00
7	5.12E-01	-0.057577746	7	1.25E+00
2	4.58E-01	0.000704952	2	6.45E-01
9	1.10E+01	-0.27671259	9	6.28E+00
15	1.68E+02	-0.029165817	15	2.14E+00
3	5.49E-01	-0.004696046	3	7.03E-01
18	7.28E+01	-0.310028647	18	6.65E+01
4	1.16E+02	-1	4	6.46E+01
3	5.99E-01	-0.22988039	3	1.44E+00
4	6.24E-01	-0.317653651	4	2.43E+00
4	6.78E-01	0.096302371	4	5.19E-01
10	1.36E+00	-0.641048497	10	9.98E+01

25	5.64E-01	0.082043064	25	9.40E-01
11	5.36E-05	3	11	4.31E-09
33	8.25E-02	0.022341725	33	3.69E+00
7	7.46E-01	0.053169184	7	6.90E-01
5	7.51E-02	-0.238437843	5	2.21E+00
1	5.14E-01	0	1	6.02E-01
15	4.03E-03	-0.106304913	15	4.51E+00
3	9.94E-01	-0.282333732	3	1.71E+00
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0	2	6.46E-01
7	1.11E+00	0.072909719	7	6.21E-01
3	2.90E+00	-0.461565861	3	3.02E+00
5	8.26E-01	-0.160643754	5	1.58E+00
7	3.62E+01	-0.243757747	7	3.39E+00
4	9.15E-03	-0.227752395	4	1.74E+00
3	1.32E-01	-0.641306464	3	5.36E+00
5	2.05E-01	0.249114194	5	2.75E-01
1	3.49E-01	0.450836129	1	2.33E-01
13	1.92E+00	0.182189081	13	2.91E-01
11	3.62E+00	0.261381804	11	1.70E-01
18	1.39E+01	-0.186767648	18	1.65E+01
7	6.78E-01	-0.287769387	7	4.29E+00
30	1.05E+01	-0.112893358	30	3.46E+01
6	3.06E+00	-0.068326681	6	1.19E+00
11	1.68E+00	-0.117938181	11	2.95E+00
3	2.85E-01	-0.07633947	3	8.84E-01
51	1.12E+02	0	51	2.02E+01
8	9.96E-01	0.24946766	8	2.26E-01
6	8.92E-01	-0.467196718	6	8.12E+00
6	2.86E+00	0.07893419	6	5.85E-01
3	3.26E+00	-0.226087843	3	1.43E+00
26	2.72E-01	0.104493076	26	6.79E-01
10	3.16E-02	-0.114985448	10	2.53E+00
14	4.54E-01	-0.111086644	14	4.15E+00
2	5.64E-01	0	2	6.46E-01
2	5.64E-01	0	2	6.46E-01
8	2.16E-01	0.029871065	8	8.25E-01
1	2.68E-01	0.09972839	1	4.88E-01
5	3.23E-01	-0.189242295	5	1.79E+00
5	1.67E-02	-0.568821725	5	9.07E+00
7	5.77E+00	0.02629211	7	7.97E-01
7	3.11E+00	-0.024872228	7	1.05E+00
4	1.04E+00	-1	4	3.69E+01
6	1.66E+00	-0.127869726	6	1.58E+00
3	6.90E-01	-0.222257893	3	1.41E+00
1	5.36E-01	-0.02121048	1	6.29E-01
4	6.24E-01	-0.222861024	4	1.71E+00

1	5.52E-01	0	1	6.02E-01
3	7.56E+00	-0.362368246	3	2.20E+00
4	5.94E+00	-0.787490995	4	1.41E+01
4	6.24E-01	-0.358703852	4	2.84E+00
13	1.91E+05	-1	13	8.15E+03
18	9.52E+04	-0.214632808	18	2.26E+01
4	8.64E-01	-0.464693517	4	4.21E+00
8	1.92E+02	-0.481322437	8	1.69E+01
4	4.36E+02	-1	4	1.42E+02
7	4.78E+02	-0.607854294	7	2.39E+01
12	2.56E+00	0.0540089	12	8.43E-01
4	6.37E-01	0.078664117	4	5.54E-01
10	2.13E-01	0.938043105	10	1.61E-03
18	1.51E-01	1	18	6.02E-06
36	2.00E+14	0.788783864	36	4.22E-07
12	9.29E+03	-1	12	4.86E+03
8	5.21E+02	-0.415786796	8	1.15E+01
12	2.21E+04	-0.913090633	12	2.07E+03
10	1.66E+00	-0.365519222	10	1.46E+01
6	5.94E+00	-0.261124527	6	3.01E+00
4	1.22E-01	-0.456575833	4	4.09E+00
2	7.48E-01	-0.350677992	2	1.63E+00
4	2.50E+00	-0.294200691	4	2.23E+00
4	9.45E-01	0.461368024	4	1.33E-01
2	8.32E-01	-0.201092609	2	1.10E+00
18	1.30E+09	-0.573029342	18	1.31E+03
10	1.62E+03	-0.481142058	10	3.27E+01
3	2.81E+00	-0.07092131	3	8.69E-01
7	1.78E+02	-0.75666739	7	5.30E+01
7	3.26E+02	-2	7	4.31E+03
4	3.72E+02	-0.370886012	4	2.97E+00
4	2.61E+01	-0.73540932	4	1.16E+01
6	5.70E+00	-0.558756498	6	1.26E+01
4	1.13E+00	0.199246902	4	3.53E-01
7	3.47E+00	1	7	4.29E-03
6	5.17E+00	1	6	7.66E-04
1	5.07E-01	0.010118539	1	5.89E-01
4	2.27E+00	-0.385876678	4	3.14E+00
16	1.02E+00	-0.35090471	16	6.28E+01
7	2.14E+01	-0.186556695	7	2.49E+00
7	1.98E+02	-0.193357016	7	2.59E+00
55	5.67E+23	-0.423365109	55	1.58E+07
6	1.56E+01	-1	6	1.76E+02
9	3.97E+00	0.308860073	9	1.44E-01
14	3.54E+05	-0.225518856	14	1.18E+01
3	1.74E+01	-0.425480014	3	2.69E+00
4	7.61E+00	-0.11269788	4	1.13E+00

9	6.63E+04	-0.797553705	9	1.80E+02
6	4.23E+00	-0.377977293	6	5.28E+00
4	1.37E+00	-0.198150664	4	1.56E+00
9	2.90E+01	-0.251993217	9	5.36E+00
21	3.85E+02	-0.535814129	21	2.53E+03
8	1.47E+03	-0.765155061	8	9.00E+01
1	5.36E-01	0	1	6.02E-01
6	1.86E+03	-0.958126245	6	8.65E+01
4	1.35E+01	-0.41404893	4	3.49E+00
4	1.20E+00	-0.335634678	4	2.60E+00
6	3.37E+00	-0.050867556	6	1.09E+00
5	1.79E+00	-0.771523482	5	2.16E+01
13	7.97E+03	-0.036806121	13	1.92E+00
5	3.81E+03	-0.67367378	5	1.42E+01
5	7.37E+00	0.01578564	5	7.45E-01
7	1.12E+02	-0.26681533	7	3.83E+00
3	2.03E+00	0.255901752	3	3.06E-01
5	1.71E+02	0.85073405	5	2.10E-02
10	2.07E+02	3	10	2.49E-09
6	3.60E-01	0.535906805	6	6.47E-02
12	1.44E+05	0.574068628	12	1.27E-02
13	9.61E+00	-0.462623488	13	7.52E+01
11	2.30E-03	-0.248542934	11	7.90E+00
6	1.76E+01	0.140638875	6	4.34E-01
7	2.70E+01	-0.945461906	7	1.46E+02
4	7.08E-01	-0.005622444	4	7.59E-01
5	1.06E+01	-0.297948543	5	2.85E+00
10	2.24E+02	-0.451108417	10	2.65E+01
3	3.71E+00	-0.246927499	3	1.52E+00
3	1.26E+01	-0.791429956	3	8.66E+00
3	3.32E+01	0.127990836	3	4.60E-01
4	2.05E+02	0.622842728	4	7.27E-02
12	3.10E+00	-0.054596165	12	2.03E+00
4	6.69E-01	-0.098006152	4	1.07E+00
9	1.71E+00	-0.165488591	9	3.07E+00
19	3.84E+00	0.67724639	19	6.90E-04
8	1.40E+00	0.736381746	8	1.28E-02
13	1.94E+00	0.801136369	13	1.41E-03
4	6.44E-01	0.417743681	4	1.56E-01
11	1.63E+01	0.608219767	11	1.25E-02
5	3.36E-01	0.152922213	5	4.15E-01
6	6.78E-01	0.004032948	6	8.39E-01
2	8.77E-01	-0.382806056	2	1.78E+00
9	2.36E+03	-0.765606957	9	1.47E+02
6	3.95E-01	0.002981437	6	8.43E-01
5	2.02E+00	0.561627333	5	7.22E-02
2	4.37E-01	0	2	6.46E-01

6	2.18E-01	0.325507821	6	1.78E-01
4	7.03E-01	-0.05164286	4	9.01E-01
7	6.38E-01	0.341832965	7	1.47E-01
16	8.51E+01	0.769034854	16	6.57E-04
4	8.81E-01	0.311678236	4	2.32E-01
5	1.30E+00	1	5	4.25E-03
7	1.16E+00	0.028352254	7	7.88E-01
14	1.54E+00	-0.218113343	14	1.11E+01
7	6.08E+00	2	7	8.60E-05
6	1.25E+00	0.070217443	6	6.10E-01
9	1.25E+03	0.718735218	9	1.03E-02
7	1.12E+07	-0.759716058	7	5.38E+01
10	4.33E+03	0.01965459	10	9.88E-01
2	3.62E+01	-0.118798457	2	8.85E-01
10	4.25E+03	-0.043727806	10	1.54E+00
3	3.12E+00	-0.901692817	3	1.23E+01
7	2.96E+00	-0.378982135	7	7.00E+00
1	5.44E-01	-0.018731254	1	6.26E-01
6	8.25E+00	0.447700898	6	9.90E-02
3	6.11E-01	-0.059861645	3	8.39E-01
6	1.82E+01	-0.132110435	6	1.62E+00
9	8.07E+01	-0.422729193	9	1.61E+01
2	6.84E-01	-0.238494932	2	1.21E+00
3	5.93E-01	-0.038751702	3	7.84E-01
3	5.93E-01	0	3	6.93E-01
2	5.67E-01	-0.033434493	2	7.06E-01
1	5.70E-01	-0.35354751	1	1.27E+00
9	2.41E+00	-0.347890287	9	9.94E+00
3	5.93E-01	-0.51554307	3	3.59E+00
2	3.42E-01	0	2	6.46E-01
8	2.89E+00	-0.183813374	8	2.91E+00
6	6.91E-01	0.384099249	6	1.34E-01
4	6.24E-01	-0.020380581	4	8.02E-01
11	4.20E+00	0.759766017	11	3.99E-03
1	5.36E-01	0	1	6.02E-01
2	8.25E-01	-0.213292761	2	1.14E+00
7	2.05E+02	-1	7	4.21E+02
5	2.08E+00	-0.251725573	5	2.34E+00
6	2.81E-01	0.397452478	6	1.26E-01
5	6.81E-01	0.01346689	5	7.53E-01
5	1.78E+00	0.061227461	5	6.14E-01
9	8.45E+01	-1	9	7.75E+03
5	1.43E-01	-0.599500635	5	1.03E+01
13	2.44E+02	-0.166089887	13	5.85E+00
5	6.57E-01	0.137203946	5	4.43E-01
1	5.90E-01	0.055743114	1	5.35E-01
1	8.62E-01	-0.037222424	1	6.51E-01

7	1.22E+03	-0.184663673	7	2.47E+00
7	2.02E+00	-0.398467955	7	7.77E+00
5	6.65E-01	-0.156461479	5	1.56E+00
43	4.57E+00	0	43	1.15E+01
43	4.49E+00	0	43	1.15E+01
3	5.14E-01	-0.005642802	3	7.05E-01
2	5.64E-01	0.068388684	2	5.39E-01
5	6.61E-01	2	5	7.48E-04
3	5.66E-01	1	3	2.22E-02
3	3.67E-01	0.938355767	3	3.47E-02
42	3.42E+00	0.064766909	42	2.22E+00
1	5.63E-01	-0.010390217	1	6.15E-01
5	1.85E+00	-0.324922116	5	3.20E+00
6	1.45E-01	1	6	3.72E-03
10	1.07E+04	-0.926338614	10	7.33E+02
2	8.93E-01	-0.417591578	2	1.95E+00
10	1.10E+00	-0.851405772	10	4.34E+02
3	2.86E-01	-0.033498934	3	7.71E-01
3	2.72E+00	-0.366755317	3	2.23E+00
8	2.20E+00	-0.025509322	8	1.14E+00
9	3.53E+01	-0.751328813	9	1.34E+02
3	3.85E+01	-0.626331006	3	5.11E+00
4	1.39E+00	-0.028778306	4	8.27E-01
4	6.39E-01	-0.011676177	4	7.76E-01
2	5.19E-01	-0.270169386	2	1.32E+00
7	6.92E-01	-0.021090824	7	1.03E+00
5	7.50E-01	-0.660617614	5	1.34E+01
3	1.70E+01	-1	3	2.19E+01
7	8.75E+00	-0.584830013	7	2.11E+01
2	5.93E-01	-0.007730739	2	6.59E-01
1	5.48E-01	-0.325647077	1	1.20E+00
12	6.01E+03	-0.209353522	12	7.06E+00
20	5.07E+03	-0.386793525	20	2.78E+02
3	4.84E+00	-0.510522801	3	3.53E+00
2	1.09E+00	0.765339238	2	8.50E-02
6	9.57E+01	0.275004811	6	2.27E-01
10	3.52E+00	-0.124503685	10	2.70E+00
2	9.61E-01	-1	2	2.04E+01
6	1.20E+00	-0.539977933	6	1.15E+01
10	1.72E+01	-0.647834422	10	1.05E+02
12	1.54E+00	0.053369588	12	8.48E-01
2	5.85E-01	0.100044179	2	4.95E-01
5	1.80E+00	-0.450043889	5	5.46E+00
3	2.12E+00	0.033876992	3	6.22E-01
4	1.03E+00	-0.259307455	4	1.96E+00
9	6.72E-01	0.084972795	9	6.11E-01
7	8.70E+01	-0.066965244	7	1.31E+00

6	7.19E-01	-0.11844253	6	1.51E+00
5	1.06E+00	-0.09507524	5	1.20E+00
7	1.44E+00	-0.077898751	7	1.39E+00
7	1.52E+00	-0.244305996	7	3.40E+00
6	1.04E+00	-0.006355692	6	8.82E-01
5	2.19E+00	-0.168854267	5	1.64E+00
6	9.80E+00	-0.306611847	6	3.75E+00
3	5.93E-01	-0.396906143	3	2.46E+00
3	3.01E+04	2	3	6.14E-04
4	6.89E-01	0.577427014	4	8.61E-02
8	1.53E+04	2	8	1.39E-04
1	1.12E+00	0.852670241	1	9.99E-02
1	5.36E-01	0	1	6.02E-01
8	2.97E+00	0.274685861	8	1.95E-01
8	7.29E-01	-0.195302129	8	3.12E+00
4	1.27E-01	0.063189547	4	5.87E-01
3	4.73E-01	0.017104498	3	6.56E-01
1	3.95E-01	-0.029671899	1	6.41E-01
16	1.12E+00	0.350024018	16	4.80E-02
8	1.04E+00	0.058443902	8	6.97E-01
31	3.49E-01	-0.070441046	31	1.81E+01
32	8.19E+06	-0.587981638	32	3.59E+05
2	5.64E-01	-0.131058208	2	9.14E-01
11	9.97E-01	-0.032303411	11	1.55E+00
16	3.95E-02	0.259985752	16	1.21E-01
11	1.33E+00	-0.011085309	11	1.32E+00
29	2.63E+02	0.377767648	29	6.28E-03
15	4.79E+00	0.588036332	15	5.37E-03
11	9.26E+07	0.701031315	11	6.20E-03
9	1.57E+02	2	9	1.06E-06
10	1.17E+01	0.702912251	10	8.35E-03
4	3.70E-02	0.062807708	4	5.88E-01
8	5.74E-02	0.975320118	8	3.11E-03
12	1.80E-04	0.308792715	12	1.08E-01
6	8.11E+00	0.204706714	6	3.19E-01
5	2.21E-01	0.610125692	5	5.87E-02
11	6.34E+01	-0.234588346	11	7.11E+00
6	1.20E+02	-0.574493649	6	1.36E+01
6	2.41E+00	-1	6	3.95E+02
5	2.11E-01	-0.475869702	5	6.10E+00
3	6.22E-01	0.327495813	3	2.44E-01
5	9.69E-01	-0.427227551	5	4.95E+00
2	9.51E-01	-0.130358849	2	9.12E-01
2	5.64E-01	-0.025572051	2	6.91E-01
8	3.55E+00	0.421397987	8	8.19E-02
4	5.44E-01	1	4	9.73E-03
3	5.49E-01	0.936257357	3	3.49E-02

2	3.24E+00	0.668541511	2	1.10E-01
7	1.92E+00	1	7	3.48E-04
6	9.25E+00	0.832877747	6	1.55E-02
5	6.71E-01	0.01138892	5	7.59E-01
10	4.61E+00	0.161803302	10	3.66E-01
5	1.05E+00	-0.089082876	5	1.17E+00
5	1.78E-01	-0.214797982	5	2.00E+00
14	9.97E+00	0.010582186	14	1.36E+00
1	5.24E-01	-0.006526186	1	6.10E-01
7	1.40E+00	-0.179808043	7	2.41E+00
8	8.15E+00	0.310381683	8	1.58E-01
3	9.17E-01	-0.139379312	3	1.08E+00
6	3.72E+02	-0.848617394	6	5.10E+01
5	5.95E+02	-0.565165545	5	8.93E+00
14	1.20E+02	-0.294063666	14	2.22E+01
5	2.20E+00	0.138268186	5	4.41E-01
7	7.87E+00	0.151071582	7	4.08E-01
4	7.69E-01	-0.739856873	4	1.18E+01
6	2.02E+00	-0.059831221	6	1.14E+00
2	7.60E-01	-0.152306871	2	9.67E-01
1	5.70E-01	-0.321845806	1	1.19E+00
1	5.57E-01	-0.02541541	1	6.35E-01
3	2.26E+00	-0.302056188	3	1.82E+00
3	2.08E+00	0.188085213	3	3.80E-01
8	4.57E+04	-0.863427741	8	1.61E+02
5	1.46E+00	-0.4503288	5	5.47E+00
4	1.87E+00	-0.157915582	4	1.34E+00
2	5.92E-01	-0.012801643	2	6.68E-01
1	5.10E-01	0.067144638	1	5.23E-01
15	2.31E+01	0.016630588	15	1.37E+00
7	2.81E-02	0.881715516	7	8.13E-03
7	8.07E-02	0.698527097	7	2.17E-02
5	8.18E+01	0.175621404	5	3.76E-01
5	1.80E+00	-0.039347096	5	9.43E-01
15	2.13E+02	1	15	2.04E-06
11	6.38E+00	-0.326847447	11	1.42E+01
30	7.84E-02	0.413971947	30	2.88E-03
7	9.64E-02	0.406264062	7	1.04E-01
21	6.31E-01	-0.096591766	21	8.57E+00
11	3.06E-02	-0.310921802	11	1.26E+01
6	7.65E-01	0.299760127	6	2.02E-01
4	7.51E-01	-0.650572285	4	8.43E+00
5	1.82E+00	-0.142134075	5	1.46E+00
2	2.86E-01	-0.313900575	2	1.48E+00
21	2.76E-02	-0.120652172	21	1.17E+01
12	1.29E+00	0.079392149	12	6.87E-01
8	2.76E+06	-2	8	3.00E+04

20	1.44E+05	-0.334528804	20	1.45E+02
3	6.02E-01	-0.001750894	3	6.97E-01
5	6.75E-01	0	5	7.97E-01
6	6.91E-01	0	6	8.55E-01
19	4.27E+03	-0.302684464	19	7.74E+01
30	2.86E-03	0.515217275	30	4.73E-04
12	2.25E+00	0.266319149	12	1.52E-01
33	1.79E+06	-0.526277635	33	1.60E+05
18	7.68E-01	-0.05638431	18	3.76E+00
6	7.97E-01	0	6	8.55E-01
3	6.46E-01	0.086654206	3	5.25E-01
5	2.48E+00	0.624271861	5	5.53E-02
10	4.81E+00	0.080310884	10	6.46E-01
42	2.67E-01	0.14039702	42	3.52E-01
12	3.08E+05	0.269075783	12	1.49E-01
7	4.20E+00	-0.17814558	7	2.38E+00
8	1.32E+01	0.14966931	8	4.07E-01
5	8.10E-01	-0.086585173	5	1.15E+00
2	1.15E+00	-0.020656975	2	6.82E-01
3	4.98E+00	-0.031648274	3	7.66E-01
5	6.57E-01	-0.465781751	5	5.84E+00
5	6.54E-01	-0.278059623	5	2.62E+00
5	7.88E-01	-0.459161659	5	5.68E+00
2	5.75E-01	-0.034558396	2	7.08E-01
7	1.53E+00	-0.080006438	7	1.41E+00
6	3.03E+00	0.14933394	6	4.17E-01
2	5.42E-01	0.028768095	2	5.98E-01
2	4.65E-01	0	2	6.46E-01
5	7.31E-01	0.249570622	5	2.74E-01
2	1.14E+00	-0.221377532	2	1.16E+00
8	1.68E-02	-0.119710227	8	2.00E+00
6	1.52E+01	-0.409586029	6	6.15E+00
6	2.78E-01	0.815528455	6	1.68E-02
3	9.46E-01	0.007011491	3	6.77E-01
3	9.48E-01	-0.123221801	3	1.03E+00
24	7.05E+04	-0.280616181	24	1.81E+02
1	5.24E-01	0.01490241	1	5.83E-01
3	4.55E-01	-0.285618301	3	1.72E+00
7	1.88E+00	-0.041203089	7	1.14E+00
18	2.07E+03	2	18	1.75E-08
7	1.75E+01	0.507982878	7	6.03E-02
13	2.14E+01	0.209590504	13	2.30E-01
5	2.47E-01	-0.541598473	5	8.08E+00
6	1.23E+00	-0.954357305	6	8.49E+01
2	8.15E+00	-2	2	4.31E+01
2	1.72E+00	-0.881160451	2	6.67E+00
2	8.34E-03	0	2	6.46E-01

5	1.56E-01	0	5	7.97E-01
4	9.80E-03	-0.6492957	4	8.39E+00
6	4.58E-01	-0.610381416	6	1.62E+01
4	2.17E+00	-0.129558879	4	1.21E+00
4	3.78E-01	-0.190871661	4	1.52E+00
12	4.04E+00	-0.699959975	12	3.70E+02
11	1.47E-01	0.314464357	11	1.14E-01
3	6.66E-01	-0.124710285	3	1.03E+00
5	1.18E-01	-0.124540825	5	1.36E+00
19	2.23E-02	0.021665965	19	1.65E+00
1	6.77E-01	0.049333536	1	5.43E-01
22	2.30E-05	-0.302569868	22	1.56E+02
7	3.74E-09	2	7	2.19E-05
2	6.00E-01	0.038796026	2	5.83E-01
10	1.51E+01	0.397302803	10	7.06E-02
1	5.63E-01	0	1	6.02E-01
4	7.30E-01	-0.039537902	4	8.61E-01
2	5.50E-01	-0.009403307	2	6.62E-01
2	5.79E-01	-0.01299681	2	6.68E-01
10	3.95E-01	-0.358239348	10	1.38E+01
9	3.42E+00	-0.023557519	9	1.23E+00
6	1.07E+00	-0.202975284	6	2.27E+00
6	1.19E-01	-0.14104214	6	1.69E+00
3	6.39E-02	-0.066141213	3	8.56E-01
5	1.16E+01	0.22392204	5	3.06E-01
6	2.25E+02	-0.470850263	6	8.27E+00
9	3.23E+01	0.000726996	9	1.05E+00
7	5.34E+02	-0.283732492	7	4.20E+00
4	2.47E+01	0.210853909	4	3.38E-01
4	1.71E+00	0.220331992	4	3.26E-01
5	2.65E-02	-0.971124424	5	5.07E+01
18	2.14E-01	0.188655724	18	2.35E-01
11	1.58E-01	0.00539238	11	1.17E+00
22	2.43E-02	0.444465499	22	6.55E-03
2	5.87E-01	-0.051291541	2	7.40E-01
4	8.03E-01	-0.044782718	4	8.78E-01
9	2.51E-01	-0.178503651	9	3.34E+00
8	5.69E-01	-0.20113794	8	3.23E+00
1	4.93E-01	-0.065944874	1	6.92E-01
2	1.97E+00	-0.346053723	2	1.62E+00
3	1.22E+02	-0.684562631	3	6.16E+00
5	1.02E+01	0.149273858	5	4.21E-01
5	7.71E-01	0.480779508	5	1.02E-01
8	1.43E-03	-0.002833161	8	1.00E+00
9	2.22E+00	-0.395613062	9	1.35E+01
2	5.73E-01	0	2	6.46E-01
3	1.04E+01	-0.213918525	3	1.37E+00

4	4.12E+00	0.285956093	4	2.56E-01
30	5.51E+01	-0.190861804	30	1.39E+02
6	8.26E-02	0.341989202	6	1.65E-01
1	7.22E-01	0.273205895	1	3.39E-01
2	5.55E-01	-0.499527132	2	2.43E+00
9	7.69E-01	-0.850021253	9	2.53E+02
2	3.98E-01	-0.438664875	2	2.06E+00
3	5.93E-01	-0.079447974	3	8.93E-01
13	7.27E-01	-0.050069828	13	2.15E+00
5	5.71E-01	0.05290162	5	6.36E-01
7	6.93E-01	0.031434082	7	7.75E-01
3	5.93E-01	0	3	6.93E-01
18	8.15E-01	0.101757419	18	6.28E-01
9	7.80E-01	-0.030808665	9	1.29E+00
9	2.24E-01	-0.259156913	9	5.61E+00
18	1.60E+01	1	18	2.65E-07
3	7.26E-01	1	3	1.94E-02
1	2.57E+00	0.451090992	1	2.33E-01
16	3.47E+08	-0.464567169	16	2.01E+02
16	5.44E+00	-0.685067544	16	1.92E+03
6	2.29E-01	-0.302408792	6	3.67E+00
9	8.45E-01	-0.125962908	9	2.38E+00
7	5.61E+00	-0.027440684	7	1.06E+00
8	6.36E+00	-0.105056068	8	1.83E+00
10	5.06E+00	-0.256137576	10	6.78E+00
10	3.97E+01	-0.745017127	10	2.06E+02
6	5.93E-01	0.174039896	6	3.70E-01
9	3.63E+00	-0.36657704	9	1.12E+01
4	2.11E+00	-0.098399807	4	1.07E+00
7	3.07E+00	-0.227481054	7	3.11E+00
34	8.04E-06	0.443224968	34	8.65E-04
18	1.10E-03	-0.573160527	18	1.31E+03
11	8.75E-02	-0.658810599	11	1.73E+02
11	3.70E+00	-0.131740514	11	3.28E+00
8	2.17E-02	-1	8	5.78E+03
11	2.72E+02	-0.837379869	11	6.65E+02
12	2.68E+00	-0.34715226	12	2.15E+01
8	1.22E-02	0.097196023	8	5.55E-01
4	8.96E-01	0.005965124	4	7.27E-01
2	6.74E-01	0.448924329	2	1.97E-01
3	1.46E+00	0.490331826	3	1.45E-01
9	1.79E+01	1	9	1.49E-03
9	1.28E+00	-0.12445936	9	2.36E+00
7	1.58E+00	-0.381802663	7	7.10E+00
9	1.09E+02	0.045830781	9	7.86E-01
4	1.57E+00	0.371078804	4	1.86E-01
5	4.65E-01	0.042108536	5	6.66E-01

15	2.45E+06	-0.701621411	15	1.45E+03
3	2.10E-01	-0.104163397	3	9.66E-01
9	1.12E+03	-0.900415715	9	3.50E+02
12	8.63E+00	-0.752738777	12	5.67E+02
7	1.30E-01	-0.111885566	7	1.67E+00
9	1.49E-01	0.411819936	9	7.43E-02
14	5.61E-05	-0.036205873	14	2.09E+00
3	1.20E-03	2	3	1.39E-03
7	3.28E-01	-0.01166927	7	9.77E-01
14	9.89E-01	-0.021510375	14	1.83E+00
22	5.69E-02	0.111007352	22	5.89E-01
12	2.55E+00	-0.313163818	12	1.63E+01
12	1.40E+01	0.081195136	12	6.77E-01
5	6.97E-01	-0.030307433	5	9.08E-01
2	6.79E-01	-0.650952401	2	3.62E+00
5	1.67E+00	-0.007301299	5	8.23E-01
12	1.40E+00	-0.08709358	12	2.63E+00
40	1.83E+18	-0.966238115	40	5.33E+10
9	1.75E+00	-0.27189935	9	6.09E+00
5	1.76E+00	-0.319827511	5	3.13E+00
16	9.70E+02	0.279283134	16	9.89E-02
4	6.28E-01	-0.11551347	4	1.14E+00
26	2.05E+01	0.505109409	26	1.28E-03
3	1.65E+01	0.281068325	3	2.83E-01
6	1.88E+01	0.306480028	6	1.95E-01
6	3.24E+00	-0.448835576	6	7.43E+00
9	8.90E+01	-0.068925633	9	1.65E+00
7	1.54E+00	-0.392138578	7	7.51E+00
7	1.06E+00	-0.172504373	7	2.31E+00
6	1.24E+00	-0.403202334	6	5.97E+00
2	1.50E+00	-0.269467812	2	1.32E+00
4	7.63E-01	-0.486683267	4	4.57E+00
12	6.52E+00	0.030111575	12	1.02E+00
2	5.72E-01	0.690031947	2	1.04E-01
7	4.25E+02	-0.247309114	7	3.45E+00
3	5.93E-01	-0.109713951	3	9.83E-01
6	6.94E-01	-0.002107697	6	8.64E-01
7	2.51E+02	-0.060266431	7	1.27E+00
4	1.41E+00	-0.525773237	4	5.29E+00
9	1.36E+02	-0.239228905	9	4.93E+00
7	7.42E+00	-0.086432198	7	1.46E+00
5	1.52E+01	0	5	7.97E-01
6	3.38E+00	-0.230624402	6	2.60E+00
4	8.38E-01	0.236968641	4	3.07E-01
1	5.48E-01	-0.28943181	1	1.11E+00
27	1.56E+03	-0.316084035	27	6.27E+02
4	8.85E-01	-0.050736961	4	8.98E-01

2	1.76E+00	-0.093237564	2	8.27E-01
7	2.34E+01	-0.184052832	7	2.46E+00
3	2.39E-01	-0.106586173	3	9.73E-01
3	5.39E-01	-0.47683177	3	3.17E+00
1	7.36E-01	-0.336896877	1	1.22E+00
3	9.60E+00	0.115783596	3	4.79E-01
5	8.19E-01	-0.125864383	5	1.37E+00
3	1.89E+00	-0.778446318	3	8.31E+00
4	1.59E+00	-0.27334707	4	2.06E+00
6	2.01E+01	-0.702447776	6	2.52E+01
4	5.98E-01	0.444734425	4	1.41E-01
4	1.60E+00	0.804277549	4	3.69E-02
4	1.33E+00	-0.059669412	4	9.29E-01
2	5.80E-01	-0.214176044	2	1.14E+00
5	1.86E+00	-0.031065233	5	9.11E-01
4	2.27E+00	0.170810662	4	3.93E-01
3	8.67E-01	0.03491339	3	6.20E-01
5	1.06E+00	-0.177127767	5	1.70E+00
9	4.88E-01	0.111051878	9	5.16E-01
2	5.64E-01	-0.002197745	2	6.50E-01
4	1.53E+00	0	4	7.43E-01
10	2.68E+05	-0.753120899	10	2.18E+02
1	1.25E+00	0.044165819	1	5.48E-01
2	5.76E-01	0.205734351	2	3.74E-01
9	2.11E+00	0.202925901	9	2.86E-01
4	1.16E+00	0.116162363	4	4.82E-01
9	2.95E+02	0.945936922	9	2.38E-03
14	4.44E+00	0.066615481	14	8.16E-01
2	5.34E-01	-0.062068568	2	7.61E-01
5	1.81E-02	0.102244459	5	5.15E-01
10	2.53E+00	0.111196352	10	5.21E-01
5	1.10E+02	0.061091199	5	6.14E-01
16	3.81E+01	0.111207584	16	5.53E-01
28	6.63E+06	-0.381620197	28	2.39E+03
8	1.72E+01	-0.585537769	8	3.12E+01
7	1.57E+01	0.111422639	7	5.05E-01
1	5.36E-01	-0.28943181	1	1.11E+00
5	8.78E-01	-0.075964658	5	1.10E+00
6	7.33E-01	-0.303982773	6	3.70E+00
5	2.83E+01	-0.383335826	5	4.11E+00
5	3.22E+01	-0.787649274	5	2.31E+01
3	1.50E-01	-0.547776684	3	3.98E+00
10	2.00E+00	2	10	1.36E-06
14	7.07E-01	-0.119890512	14	4.50E+00
4	2.90E-01	-0.103730232	4	1.09E+00
5	1.09E+01	-0.34060741	5	3.42E+00
9	1.11E+03	-0.257548493	9	5.55E+00

6	1.47E+01	-0.238071161	6	2.69E+00
4	8.66E+00	-0.26614724	4	2.01E+00
4	3.16E+00	-0.246572189	4	1.87E+00
5	8.68E+00	0.237151527	5	2.89E-01
8	8.82E+01	-0.297243113	8	5.69E+00
7	5.19E+03	-0.540674853	7	1.66E+01
8	1.21E+02	0.181420133	8	3.37E-01
3	1.38E+00	-0.138371373	3	1.08E+00
9	1.57E+01	-0.1301096	9	2.44E+00
31	1.72E+05	-0.269362809	31	6.99E+02
5	1.26E+03	-0.518503289	5	7.32E+00
7	1.79E+00	-0.456163869	7	1.06E+01
13	1.52E+00	-0.20612641	13	8.26E+00
4	2.65E+00	-0.235275407	4	1.79E+00
7	1.31E+02	-2	7	4.08E+03
7	4.65E+00	0.315364659	7	1.69E-01
4	3.50E-01	-0.041907237	4	8.69E-01
7	2.76E-01	-0.132071553	7	1.86E+00
6	6.77E+00	-0.312514646	6	3.85E+00
14	1.94E+03	-0.660279979	14	6.33E+02
5	1.23E+00	0.354330286	5	1.75E-01
1	1.83E+00	-0.654874213	1	2.39E+00
12	1.52E+01	0.022921948	12	1.08E+00
12	1.14E+02	0.089682583	12	6.32E-01
16	5.73E+02	-0.136504906	16	6.99E+00
25	7.11E+11	-0.855769515	25	1.35E+06
14	5.95E+02	-0.102089816	14	3.82E+00
12	8.11E+02	-0.22241548	12	7.85E+00
17	4.63E+02	-0.549278804	17	6.91E+02
2	3.94E-01	0.338389651	2	2.63E-01
12	1.65E+01	-0.438448168	12	4.49E+01
20	5.25E-05	0.138763843	20	4.09E-01
8	3.19E-01	-0.342482881	8	7.43E+00
31	1.75E+01	-0.828909325	31	2.04E+07
13	5.38E-04	-0.167616688	13	5.93E+00
5	1.54E-03	-0.68551849	5	1.49E+01
3	2.19E-01	-0.168729848	3	1.19E+00
4	5.68E-01	-0.212184723	4	1.64E+00
7	6.86E-01	0.192836531	7	3.26E-01
5	8.50E-02	-0.365030858	5	3.80E+00
5	1.16E-01	-0.643279729	5	1.25E+01
6	6.91E-01	-0.293491669	6	3.52E+00
5	6.57E-01	-0.311661561	5	3.02E+00
3	5.93E-01	-0.122588921	3	1.02E+00
4	6.24E-01	-0.128382122	4	1.20E+00
3	1.94E+00	-0.444868911	3	2.87E+00
2	5.90E-01	0	2	6.46E-01

2	3.78E+00	-0.570244524	2	2.92E+00
3	7.98E-01	-0.085272951	3	9.09E-01
3	1.57E+00	-0.279578076	3	1.69E+00
2	1.32E+00	-0.275194693	2	1.34E+00
2	5.76E-01	0	2	6.46E-01
1	8.62E-01	0	1	6.02E-01
1	5.36E-01	0	1	6.02E-01
6	4.52E+00	0.280049992	6	2.22E-01
7	2.40E+01	-0.560077268	7	1.85E+01
5	8.44E-01	-0.283254182	5	2.68E+00
14	1.33E+00	-0.036484864	14	2.10E+00
5	1.82E-01	0.011499098	5	7.59E-01
35	6.08E-01	0.233594986	35	5.41E-02
8	4.86E-01	-0.336688317	8	7.18E+00
6	1.81E-01	0.326211816	6	1.78E-01
8	2.96E-01	-0.01316534	8	1.06E+00
5	3.74E-01	-0.094152914	5	1.19E+00
5	8.84E-01	0.415692932	5	1.35E-01
9	7.70E-01	-0.359625283	9	1.07E+01
24	3.78E-13	1	24	3.78E-09
5	5.88E-08	2	5	5.16E-05
12	2.39E-03	0.066480877	12	7.63E-01
7	5.54E-01	-0.102958371	7	1.59E+00
15	1.42E-04	-0.244660193	15	1.73E+01
18	7.29E-01	0.008386598	18	1.81E+00
12	1.75E-01	0.828506334	12	1.63E-03
8	3.27E-03	0.033093654	8	8.10E-01
38	1.09E-12	0.474025821	38	2.21E-04
4	1.08E-02	-0.615255074	4	7.39E+00
4	9.79E-03	-0.054421894	4	9.11E-01
3	4.91E-01	-0.358570028	3	2.18E+00
2	4.45E-01	0.35960177	2	2.49E-01
3	9.06E-04	2	3	4.15E-03
4	2.84E-02	-0.179330867	4	1.45E+00
4	1.38E-01	0.343683216	4	2.06E-01
7	2.28E+01	-0.550114101	7	1.75E+01
6	2.85E+01	-0.953322976	6	8.45E+01
7	3.22E+05	0.117485054	7	4.89E-01
3	6.01E-01	-0.037635314	3	7.81E-01
5	9.48E-01	-0.13873467	5	1.44E+00
8	5.02E+00	-0.057249132	8	1.38E+00
2	5.64E-01	0	2	6.46E-01
2	5.64E-01	0	2	6.46E-01
1	5.36E-01	0	1	6.02E-01
2	1.41E+00	0.478403791	2	1.82E-01
25	8.12E+05	-0.506413922	25	6.87E+03
19	2.20E+04	-0.280230697	19	5.93E+01

21	5.94E+02	-0.180079784	21	2.53E+01
3	4.35E-01	-0.094227283	3	9.36E-01
9	3.96E+00	-0.249025778	9	5.26E+00
16	7.41E+02	-0.10604897	16	5.12E+00
9	1.35E+01	-0.678190004	9	8.35E+01
9	2.38E+00	-0.492569908	9	2.52E+01
6	6.81E+00	-1	6	1.08E+02
4	6.59E-02	0.034122556	4	6.54E-01
17	3.90E+02	-0.485362811	17	3.47E+02
3	6.07E-01	0	3	6.93E-01
3	9.11E-01	0	3	6.93E-01
19	1.46E+02	0.021833222	19	1.65E+00
12	6.52E+04	-1	12	2.33E+04
6	7.78E-01	0.068183097	6	6.16E-01
3	2.84E-01	-0.290143107	3	1.75E+00
3	1.05E+00	0	3	6.93E-01
1	5.36E-01	-0.028846715	1	6.40E-01
4	7.83E+00	-0.258799959	4	1.95E+00
3	1.48E+00	0.202226742	3	3.63E-01
9	5.57E+00	-0.515034229	9	2.92E+01
3	6.10E-01	-0.073258191	3	8.75E-01
11	8.48E-01	-0.011694365	11	1.33E+00
9	4.23E-02	0.014995909	9	9.59E-01
6	2.49E+01	-0.70317257	6	2.53E+01
8	1.03E+05	-0.495193607	8	1.83E+01
2	6.06E-01	0.003007255	2	6.41E-01
2	5.68E-01	-0.056781565	2	7.51E-01
2	6.40E-01	-0.101017772	2	8.44E-01
8	1.54E+02	0.115720979	8	4.97E-01
2	1.40E+00	-0.230299445	2	1.19E+00
7	1.50E+01	-0.382916498	7	7.14E+00
4	3.07E+00	-0.35524486	4	2.80E+00
4	4.08E-01	0.272555359	4	2.69E-01
8	2.35E+00	0.402531885	8	9.15E-02
11	1.21E+02	-0.287516132	11	1.06E+01
1	6.03E-01	0.01490241	1	5.83E-01
5	1.06E+00	-0.095609261	5	1.20E+00
9	1.08E+01	-0.442460179	9	1.83E+01
9	1.15E+04	0.303671745	9	1.49E-01
4	4.49E+01	-0.684337859	4	9.56E+00
2	1.29E+00	-0.011415995	2	6.66E-01
9	4.57E+01	-0.342018604	9	9.57E+00
3	6.07E+00	-0.016806893	3	7.31E-01
11	3.36E+02	-0.930003469	11	1.33E+03
8	4.27E+01	-0.609750192	8	3.60E+01
9	7.35E+04	-1	9	9.84E+03
8	1.03E+03	-0.121350913	8	2.01E+00

6	5.04E-01	-0.211791861	6	2.37E+00
4	8.75E-01	0.121695282	4	4.72E-01
9	2.61E+00	0.212744787	9	2.68E-01
3	1.06E+00	-0.128824994	3	1.05E+00
5	4.96E-01	0.289282674	5	2.31E-01
10	8.76E+02	-0.852353197	10	4.37E+02
3	7.54E-01	-0.065245115	3	8.53E-01
28	5.15E+03	-0.432105453	28	5.57E+03
5	6.66E-01	-0.015585003	5	8.52E-01
5	4.84E+00	-0.541232462	5	8.07E+00
4	6.40E-01	-0.008995954	4	7.69E-01
10	3.70E+01	-0.786560846	10	2.76E+02
6	1.29E+02	0.313180896	6	1.89E-01
1	1.33E+00	0.737233461	1	1.27E-01
3	2.90E+00	-0.378634236	3	2.32E+00
8	7.23E+01	-0.920995751	8	2.26E+02
18	8.63E+02	-0.46050806	18	3.66E+02
4	9.68E+00	0.319405472	4	2.26E-01
7	6.63E-01	-0.48943309	7	1.26E+01
5	3.07E-01	-0.103555191	5	1.24E+00
8	2.20E+00	0.875501274	8	5.61E-03
6	4.86E-01	-0.121375282	6	1.53E+00
6	1.21E+00	0.080910377	6	5.79E-01
7	1.38E+01	0.195940992	7	3.21E-01
6	4.82E+00	-0.320130789	6	4.00E+00
10	4.29E+00	-0.284042058	10	8.24E+00
6	1.16E+00	-0.287045949	6	3.41E+00
3	6.29E-01	0.011770351	3	6.67E-01
8	1.27E+00	0.066374712	8	6.65E-01
7	3.80E-01	0.016814117	7	8.39E-01
5	1.21E+00	0.320186605	5	2.03E-01
7	1.72E+00	0.216710408	7	2.87E-01
5	6.57E-01	0	5	7.97E-01
3	6.62E-01	-0.016106371	3	7.29E-01
10	1.10E+01	-0.172085728	10	3.77E+00
4	8.22E-01	-0.010784898	4	7.74E-01
7	1.00E+00	-0.04766076	7	1.18E+00
21	6.29E+08	-0.791396535	21	6.93E+04
3	7.11E-01	-0.417435717	3	2.62E+00
3	5.98E-01	-0.016443832	3	7.30E-01
11	5.50E+03	-0.113425951	11	2.85E+00
8	4.84E+01	-0.435262373	8	1.28E+01
3	7.21E+00	-1	3	2.82E+01
8	5.68E-02	0.372716853	8	1.09E-01
9	1.34E+01	0.059372781	9	7.20E-01
6	8.22E+00	-0.105030543	6	1.42E+00
7	7.10E+00	-0.08862925	7	1.48E+00

3	2.27E+00	0.222576304	3	3.40E-01
10	5.69E+02	0.238134523	10	2.15E-01
5	7.60E-01	-0.16118927	5	1.59E+00
22	1.03E-01	0.080232744	22	8.92E-01
12	5.29E+00	-0.421869845	12	3.93E+01
7	5.59E+00	-0.547966606	7	1.73E+01
74	1.81E-12	0.281897266	74	8.02E-04
2	7.64E-02	0.4116394	2	2.17E-01
15	6.25E+00	-0.281657207	15	2.47E+01
8	1.33E+00	-0.649877439	8	4.56E+01
9	1.40E+00	0.012011116	9	9.77E-01
5	1.86E+00	0.08664835	5	5.50E-01
2	8.54E-01	0.301368136	2	2.91E-01
4	1.25E+00	0.292714442	4	2.49E-01
1	5.33E-01	-0.054690583	1	6.75E-01
25	1.13E+00	-0.08480124	25	1.17E+01
10	9.60E-01	-0.315537601	10	1.03E+01
6	6.76E-01	-0.013973947	6	9.15E-01
3	1.03E+00	-0.048741609	3	8.09E-01
1	5.98E-01	0.035205566	1	5.59E-01
10	6.36E+02	-0.226310207	10	5.51E+00
8	6.26E+00	0.07945494	8	6.16E-01
10	9.10E-01	-0.083722662	10	2.03E+00
6	2.45E-01	-0.394567337	6	5.72E+00
8	1.20E+01	-0.471768631	8	1.59E+01
7	3.53E+01	-0.62341423	7	2.59E+01
7	1.42E+00	0.077893841	7	6.04E-01
10	3.56E+01	-0.364762588	10	1.45E+01
9	5.26E-01	-0.479908276	9	2.33E+01
15	5.79E-03	1	15	1.52E-05
69	8.04E-08	0.164349485	69	1.18E-01
19	5.43E-02	-0.337911388	19	1.18E+02
2	5.64E-01	0	2	6.46E-01
18	1.13E+01	-0.15480709	18	1.15E+01
30	3.75E+02	-0.280435969	30	6.86E+02
1	5.52E-01	-0.012763671	1	6.18E-01
2	5.64E-01	0.062311353	2	5.47E-01
9	3.84E+00	-0.133107646	9	2.49E+00
5	1.06E+00	-0.063061255	5	1.04E+00
7	2.52E-02	0.150253212	7	4.10E-01
4	5.25E+00	-2	4	3.35E+02
70	3.67E-12	0.659787298	70	3.65E-10
20	9.60E-04	0.875724344	20	4.37E-05
32	1.02E-07	0.911867022	32	1.72E-07
1	7.48E-01	-0.242691037	1	1.00E+00
5	1.52E+02	-0.143553955	5	1.47E+00
5	7.00E-01	-0.267328328	5	2.50E+00

15	3.53E+03	-0.722864025	15	1.78E+03
14	2.03E+04	-0.504818598	14	1.53E+02
8	5.18E-01	-0.118395963	8	1.98E+00
4	1.68E-01	-0.034791515	4	8.46E-01
7	9.47E-01	-0.244174536	7	3.40E+00
7	1.10E-01	-0.306967944	7	4.76E+00
11	8.01E-02	-0.444564249	11	3.45E+01
12	6.14E-01	-0.050356574	12	1.96E+00
15	2.01E+00	-0.155547501	15	7.28E+00
8	1.76E+01	0.351213844	8	1.24E-01
4	9.77E-01	-0.001525834	4	7.47E-01
9	4.17E-03	-0.557229775	9	3.83E+01
8	1.93E+00	-0.254475079	8	4.42E+00
9	1.35E-01	-0.118442067	9	2.27E+00
13	1.38E-03	-0.140317908	13	4.68E+00
6	1.31E-01	-0.159005074	6	1.84E+00
4	3.63E-01	-0.03515909	4	8.47E-01
8	1.15E-02	0.310707509	8	1.57E-01
6	1.04E+00	-0.143583275	6	1.71E+00
1	5.36E-01	0	1	6.02E-01
8	8.34E-01	-0.019816082	8	1.11E+00
5	1.83E+01	-2	5	1.05E+03
4	1.44E-01	-1	4	7.73E+01
4	1.09E-01	0.041101799	4	6.37E-01
10	7.75E-01	-0.029782107	10	1.40E+00
7	1.95E-02	0.232822546	7	2.63E-01
11	7.23E-01	-0.000939739	11	1.22E+00
16	2.45E-02	-0.32515605	16	4.82E+01
31	5.90E+00	-0.048852577	31	1.22E+01
14	4.01E+03	0.23886274	14	1.68E-01
2	5.86E-01	-0.005686129	2	6.56E-01
18	8.32E+03	-0.663354837	18	3.64E+03
30	8.18E+07	-0.501602585	30	3.54E+04
10	1.51E+01	2	10	1.08E-05
14	8.80E-03	2	14	8.78E-07
17	4.38E-05	0.752050804	17	5.58E-04
35	2.20E-01	0.19882535	35	1.11E-01
14	1.38E+00	0.062566093	14	8.46E-01
30	1.18E+02	-0.178606667	30	1.12E+02
24	4.84E+02	-0.159880589	24	3.12E+01
6	9.33E-01	-0.323295507	6	4.06E+00
8	1.75E+00	-0.351284848	8	7.83E+00
10	5.68E-01	-0.133109858	10	2.87E+00
44	2.23E-04	0.372247265	44	9.60E-04
7	7.38E+00	0.888245494	7	7.85E-03
7	9.39E-01	0.46378806	7	7.64E-02
7	2.19E+00	-0.303129094	7	4.66E+00

32	1.76E-04	0.091253273	32	9.46E-01
6	4.31E-01	-0.181807494	6	2.05E+00
19	8.11E-02	-0.22258768	19	2.99E+01
15	6.96E+04	-0.062820867	15	2.96E+00
10	2.09E+00	-0.006681121	10	1.19E+00
7	4.80E-01	-0.305026937	7	4.71E+00
1	5.11E-01	-0.015937023	1	6.22E-01
6	2.76E+00	-0.937509393	6	7.83E+01
4	7.30E-03	0.32531151	4	2.21E-01
46	2.92E-05	-0.005882283	46	1.66E+01
5	2.39E-01	-0.105074022	5	1.25E+00
11	4.22E-05	0.258217057	11	1.74E-01
2	1.62E-02	-0.409832538	2	1.91E+00
8	1.76E+01	-2	8	4.21E+04
12	9.57E+02	-0.307999784	12	1.57E+01
5	6.65E-01	-0.210037525	5	1.96E+00
3	6.44E-01	-0.015698893	3	7.28E-01
5	7.04E+00	0.075565062	5	5.77E-01
7	1.56E+00	-0.146069541	7	2.01E+00
5	1.30E+01	0.100307489	5	5.19E-01
8	1.80E+01	0.568417985	8	3.44E-02
5	8.54E+00	-0.576576362	5	9.38E+00
5	5.86E-02	0.593617599	5	6.30E-02
56	4.64E-03	-0.056941082	56	1.77E+02
23	4.49E-01	0.541806069	23	1.41E-03
5	1.82E+00	-0.575807881	5	9.35E+00
3	7.22E-01	0.289039835	3	2.75E-01
13	5.07E-01	0.044920939	13	9.50E-01
38	1.43E+09	-0.536084921	38	1.17E+06
3	1.22E+00	-0.114911557	3	1.00E+00
5	1.00E+03	-0.412642124	5	4.65E+00
4	2.76E+00	-0.010855682	4	7.74E-01
8	1.79E+01	-0.447483679	8	1.38E+01
4	1.16E+00	0.053877252	4	6.08E-01
41	1.13E+02	-0.087401845	41	8.01E+01
8	5.41E+00	-0.346981922	8	7.63E+00
9	1.33E-01	0.456082826	9	5.59E-02
6	5.14E-03	-0.21152005	6	2.37E+00
5	5.13E-01	-0.42894136	5	4.99E+00
10	5.08E+02	-0.847219466	10	4.21E+02
4	7.71E-01	-0.273214872	4	2.06E+00
15	3.21E+03	-0.566467637	15	3.91E+02
6	1.75E+02	-0.023175854	6	9.56E-01
4	1.92E-01	-0.261204167	4	1.97E+00
4	8.37E+00	0.079681491	4	5.52E-01
7	8.39E+00	-0.474984629	7	1.17E+01
5	8.55E+00	-0.613505154	5	1.10E+01

8	8.26E+00	-0.562032603	8	2.72E+01
8	1.92E+00	-0.160387058	8	2.54E+00
4	6.41E-02	-0.224078894	4	1.72E+00
11	7.89E-01	-0.000885858	11	1.22E+00
11	6.97E-03	1	11	2.52E-04
11	5.97E-02	1	11	6.43E-04
10	1.72E-03	0.067496521	10	7.07E-01
13	1.15E-02	1	13	4.95E-06
13	5.91E-04	2	13	7.74E-10
8	4.08E-03	2	8	3.79E-05
52	2.29E-01	0.456630811	52	2.72E-05
13	3.07E-02	0.921939747	13	4.98E-04
4	1.42E+00	2	4	1.89E-03
4	6.22E-01	-0.103143081	4	1.09E+00
9	3.07E+01	-0.442820068	9	1.83E+01
11	2.11E+02	-1	11	2.47E+04
11	3.69E+00	-0.155466379	11	3.92E+00
6	1.09E+00	0.097126931	6	5.36E-01
13	4.49E+00	0.247120848	13	1.67E-01
12	8.71E+03	-0.802218262	12	8.45E+02
4	5.57E+00	-0.398946756	4	3.30E+00
13	4.51E+03	-0.307632756	13	1.98E+01
7	1.53E+00	0.676060381	7	2.45E-02
3	1.24E+00	-0.134598219	3	1.06E+00
5	1.44E+02	-0.22226794	5	2.06E+00
11	1.52E+04	-0.275499936	11	9.67E+00
3	1.83E+00	0.451023678	3	1.64E-01
4	7.06E+01	-0.428885658	4	3.69E+00
4	2.29E+02	0.941459166	4	2.21E-02
22	4.43E+04	0.186300141	22	2.13E-01
2	9.33E-01	0.482823782	2	1.80E-01
6	4.52E+00	-0.253025587	6	2.89E+00
4	6.42E-01	-0.337863299	4	2.62E+00
23	6.66E+00	-0.620730438	23	1.72E+04
6	4.84E+01	-0.574429602	6	1.36E+01
5	1.24E+00	-0.03356701	5	9.20E-01
45	1.30E-02	0.243106982	45	2.41E-02
11	5.91E+00	-0.353516078	11	1.74E+01
10	1.69E+02	-0.173610471	10	3.81E+00
4	4.63E-01	-1	4	5.45E+01
7	2.28E-03	-1	7	2.34E+02
14	9.10E-01	-0.363479697	14	4.18E+01
2	5.04E-01	0.080344316	2	5.22E-01
2	5.34E-01	0.021483772	2	6.10E-01
3	1.95E-01	-0.17332528	3	1.20E+00
3	3.98E-01	-0.182632397	3	1.24E+00
5	3.68E+01	-0.31816646	5	3.11E+00

9	2.23E-01	-0.986024165	9	6.07E+02
17	3.81E+00	-0.305987821	17	5.02E+01
8	4.00E-01	2	8	9.79E-06
4	7.07E+01	0.548372393	4	9.59E-02
4	2.29E+02	-2	4	4.50E+02
4	8.45E+01	-1	4	3.22E+01
4	6.98E-01	-0.048492321	4	8.91E-01
8	1.68E+02	0.182896299	8	3.34E-01
7	4.72E+01	-0.543990301	7	1.69E+01
5	2.16E+02	-0.362435045	5	3.75E+00
3	4.95E+00	-0.016442295	3	7.30E-01
2	1.21E+00	-0.327440173	2	1.54E+00
6	1.12E+02	0.376756072	6	1.39E-01
6	2.54E+00	-0.155409498	6	1.81E+00
8	8.34E+03	-0.312412696	8	6.22E+00
3	3.79E-01	-0.139201627	3	1.08E+00
14	1.61E+03	1	14	1.25E-04
12	5.29E+00	-0.608179972	12	1.77E+02
5	5.90E+00	-0.827521256	5	2.74E+01
6	8.37E-01	-0.536240919	6	1.13E+01
7	4.86E-02	-0.415749261	7	8.52E+00
6	6.67E-03	-0.198734751	6	2.23E+00
21	3.66E-04	0.237748389	21	1.13E-01
8	1.42E-02	0.676561664	8	1.82E-02
41	1.90E+00	1	41	2.14E-13
4	3.96E-01	2	4	9.40E-04
6	1.96E+00	-1	6	1.93E+02
11	1.06E-01	-0.750393479	11	3.45E+02
13	2.91E-01	-0.09905034	13	3.28E+00
3	2.93E-03	0.141741617	3	4.41E-01
12	3.59E-06	0.478901527	12	2.73E-02
3	9.51E-03	1	3	2.10E-02
10	1.17E-09	2	10	5.12E-07
4	1.64E-02	0.591996954	4	8.15E-02
7	6.29E-02	0.527296638	7	5.44E-02
9	2.42E-01	2	9	3.00E-05
17	5.02E-06	0.930306106	17	8.16E-05
6	5.28E-04	1	6	1.42E-03
4	1.33E-03	2	4	1.09E-03
20	6.15E-06	0.785899538	20	1.33E-04
48	4.11E-03	-0.237698645	48	1.15E+04
4	3.35E-02	0.746506414	4	4.58E-02
9	3.74E-04	0.39349764	9	8.36E-02
5	1.71E-02	0.255559159	5	2.67E-01
7	2.86E-03	0.717066079	7	1.97E-02
9	2.04E-03	0.325006008	9	1.30E-01
3	2.33E-01	-0.330430231	3	1.99E+00

23	9.99E+05	-0.686543569	23	4.32E+04
3	1.38E+00	0.178422333	3	3.92E-01
17	1.47E+03	-0.419475384	17	1.71E+02
16	9.83E+01	-0.523507059	16	3.68E+02
3	1.82E+00	-0.323173078	3	1.94E+00
4	7.97E+00	-1	4	1.13E+02
28	1.32E-10	1	28	1.12E-09
1	4.90E-01	-0.026464731	1	6.36E-01
4	2.82E-05	0.819806671	4	3.48E-02
6	1.65E-06	0.980830584	6	7.59E-03
6	7.29E-03	-0.050559792	6	1.09E+00
13	1.64E-06	0.652825524	13	5.06E-03
3	4.85E-01	-0.332704575	3	2.00E+00
21	6.82E-08	0.019300475	21	1.91E+00
7	5.72E-05	0.89253744	7	7.67E-03
3	3.43E-05	3	3	1.70E-05
6	3.54E-09	3	6	4.22E-06
13	5.80E-07	-0.210610009	13	8.58E+00
25	4.06E+01	-0.256640254	25	1.57E+02
1	4.47E-01	0.074846159	1	5.14E-01
6	1.17E-02	-0.923155855	6	7.31E+01
2	4.60E-01	-0.042128312	2	7.22E-01
20	5.54E+00	0.318060768	20	4.42E-02
5	4.74E-01	-0.076664268	5	1.11E+00
33	8.53E-03	0.792153336	33	1.16E-06
2	6.35E-03	0.890007034	2	6.11E-02
3	2.95E-02	-2	3	1.55E+02
7	1.20E-01	-1	7	2.16E+02
7	2.55E+00	-0.263971655	7	3.78E+00
3	6.50E-01	-0.161908379	3	1.16E+00
3	3.63E-02	-0.717840358	3	6.85E+00
2	5.04E-02	-0.126830814	2	9.04E-01
11	1.29E-02	0.12481405	11	4.75E-01
7	4.12E-01	0.019498595	7	8.27E-01
9	1.58E+03	-0.5245185	9	3.10E+01
2	2.04E+00	-0.486656708	2	2.34E+00
6	1.39E+00	-0.580510952	6	1.40E+01
8	2.61E-01	0.029776316	8	8.26E-01
4	2.81E-01	-0.186716241	4	1.49E+00
10	1.17E-02	-0.711685571	10	1.64E+02
8	4.18E+00	0.349087212	8	1.25E-01
7	2.80E-01	-0.035514575	7	1.11E+00
6	1.85E-01	0.015507576	6	7.94E-01
1	5.52E-01	-0.030493481	1	6.42E-01
6	2.51E+00	-0.374970143	6	5.21E+00
3	2.06E+00	-0.495349147	3	3.37E+00
3	3.33E+00	-0.626557705	3	5.12E+00

5	2.34E+00	0.270724519	5	2.51E-01
2	6.21E-01	-0.087863957	2	8.15E-01
4	6.24E-01	0	4	7.43E-01
4	6.96E-01	-0.016476777	4	7.90E-01
4	6.43E-01	-0.287380359	4	2.17E+00
2	5.64E-01	-0.010659683	2	6.64E-01
20	1.07E+03	-0.531287665	20	1.67E+03
4	1.60E+00	-1	4	1.27E+02
2	2.30E+00	-0.52449801	2	2.59E+00
19	6.82E-03	0.920595868	19	3.84E-05
3	1.27E-01	0.192722886	3	3.75E-01
12	8.85E-01	-0.222248401	12	7.84E+00
4	7.27E-03	-0.09917041	4	1.08E+00
21	2.09E-08	2	21	1.94E-13
4	2.11E-02	0.706432959	4	5.32E-02
4	1.28E+00	-0.841946785	4	1.72E+01
4	2.35E-03	0.102583485	4	5.07E-01
40	4.94E-02	0.01662619	40	6.34E+00
4	4.86E-03	-0.573842491	4	6.33E+00
11	1.08E-05	2	11	3.94E-08
13	1.55E-07	1	13	4.50E-05
5	2.16E-04	2	5	1.37E-04
2	3.94E-01	-0.08064734	2	8.00E-01
14	2.46E+00	-0.15645531	14	6.29E+00
8	1.83E-01	-0.072592302	8	1.51E+00
2	4.13E-03	0.143029913	2	4.42E-01
6	4.54E-05	-0.653328509	6	1.99E+01
16	5.03E-01	1	16	2.61E-06
10	6.91E-02	0.263700895	10	1.80E-01
8	1.10E-08	0.661356136	8	1.99E-02
6	1.56E-03	2	6	5.17E-06
10	1.20E-08	0.747746704	10	6.10E-03
41	4.47E-20	1	41	1.78E-10
53	8.79E-07	0.675960235	53	2.96E-08
8	1.89E+00	-0.215777248	8	3.52E+00
4	4.00E+01	-0.670624955	4	9.09E+00
11	7.09E-01	-0.242416113	11	7.54E+00
4	2.82E-02	0.385261678	4	1.76E-01
9	2.05E-02	0.570246373	9	2.68E-02
6	2.61E-02	0.490977108	6	8.03E-02
11	2.95E+00	0.651179868	11	9.03E-03
8	1.79E+00	0.333548775	8	1.37E-01
41	2.34E-04	0.275425741	41	1.43E-02
9	1.07E-03	0.196804738	9	2.97E-01
5	4.04E-01	0.302422493	5	2.19E-01
3	1.86E-01	1	3	2.81E-02
7	1.84E+01	1	7	4.33E-04

9	3.32E-03	0.737161609	9	9.13E-03
6	1.85E+00	0.882541363	6	1.22E-02
16	6.00E+00	0.656497328	16	2.08E-03
13	1.93E-02	-0.109524402	13	3.59E+00
11	7.89E-02	2	11	7.36E-07
7	5.98E-03	1	7	1.53E-03
16	7.50E-05	0.781683644	16	5.77E-04
5	1.12E-01	1	5	5.25E-03
16	7.19E-01	0.327600418	16	6.03E-02
32	2.38E-01	0.423568387	32	1.76E-03
4	1.04E-01	-0.232172855	4	1.77E+00
4	8.96E+00	-1	4	5.64E+01
3	7.16E+00	-0.360388877	3	2.19E+00
6	8.82E+01	-0.802024733	6	4.08E+01
1	1.97E+01	-0.215393616	1	9.48E-01
9	2.64E+04	-0.428885479	9	1.67E+01
8	1.04E-01	-0.031101156	8	1.18E+00
6	7.63E-01	-0.100217321	6	1.39E+00
8	3.51E+01	-0.295133209	8	5.62E+00
7	1.17E+00	-0.30039983	7	4.59E+00
5	2.52E+00	0.060834921	5	6.15E-01
7	2.62E+01	0.176096927	7	3.57E-01
12	9.14E-02	0.983709105	12	4.65E-04
5	8.39E-03	-0.856207403	5	3.10E+01
2	4.38E-01	-0.080230032	2	7.99E-01
3	5.22E-01	-0.567349731	3	4.24E+00
7	1.41E-01	0.003843408	7	8.99E-01
21	1.82E-03	-0.230188625	21	4.84E+01
8	9.96E-04	-1	8	6.24E+02
4	6.34E-01	0.002971978	4	7.35E-01
9	1.65E+00	-0.24975596	9	5.28E+00
32	4.89E-12	0.321656435	32	1.21E-02
7	2.71E-02	0.065857291	7	6.45E-01
15	1.00E-01	0.247693988	15	1.46E-01
11	2.97E-02	0.692769763	11	6.60E-03
7	7.58E+00	-0.399189519	7	7.80E+00
17	4.01E+06	-0.764706375	17	7.05E+03
2	2.28E+00	-0.667402041	2	3.78E+00
2	1.21E+00	-0.327415557	2	1.54E+00
7	3.82E+01	-0.729147011	7	4.57E+01
4	4.06E-01	2	4	2.26E-03
10	1.16E-02	-0.009564326	10	1.21E+00
16	7.12E+04	-0.244259606	16	2.11E+01
19	1.09E+01	0.692552928	19	5.75E-04
11	2.63E-01	0.046959625	11	8.54E-01
15	9.66E-01	0.243109137	15	1.52E-01
4	2.50E+00	-0.276461858	4	2.09E+00

3	4.37E+00	0.866721455	3	4.36E-02
6	7.01E+00	-0.092323066	6	1.33E+00
1	1.85E+00	-0.311537216	1	1.16E+00
1	5.42E-01	-0.030206086	1	6.41E-01
5	1.49E+01	-0.221946404	5	2.06E+00
10	7.90E+00	-0.675855506	10	1.27E+02
7	3.61E-01	-1	7	4.81E+02
2	5.60E-01	-0.056561906	2	7.50E-01
6	2.60E-01	0.275502938	6	2.27E-01
5	6.75E-01	0.337544808	5	1.88E-01
4	2.07E-01	-0.691632427	4	9.83E+00
7	2.81E+00	-0.985589117	7	1.81E+02
5	3.56E-01	-0.120239164	5	1.33E+00
1	5.21E-01	-0.013293048	1	6.19E-01
14	6.80E+02	-0.478459514	14	1.20E+02
4	2.91E+00	-0.66093666	4	8.76E+00
6	1.28E+01	-0.70259778	6	2.52E+01
3	6.01E-01	-0.003631067	3	7.01E-01
1	7.56E-01	-0.313077604	1	1.16E+00
5	1.97E-01	-0.033039495	5	9.18E-01
4	1.08E+00	-0.213768413	4	1.65E+00
4	9.78E-01	-0.187231843	4	1.50E+00
13	5.25E-04	0.142425501	13	4.10E-01
3	3.58E-03	-0.994085291	3	1.65E+01
4	2.57E-02	-0.168792357	4	1.40E+00
7	9.25E-02	-0.057339866	7	1.25E+00
5	1.84E-01	0.561817185	5	7.22E-02
8	5.02E-02	1	8	8.23E-04
6	7.34E-02	0.148727215	6	4.18E-01
11	5.89E-03	-0.265064805	11	8.94E+00
12	4.45E-05	0.582948972	12	1.18E-02
9	6.45E-04	0.732251467	9	9.43E-03
2	2.09E-02	-0.409592285	2	1.91E+00
15	8.22E-03	-0.59255744	15	5.04E+02
5	1.91E+01	-0.240104314	5	2.23E+00
6	7.70E-02	-0.380337708	6	5.34E+00
17	9.85E-03	0.72874616	17	7.17E-04
8	7.96E+01	0.602561755	8	2.81E-02
7	1.73E+01	0.797153919	7	1.28E-02
8	8.44E-01	0.952507267	8	3.56E-03
8	1.34E+00	0.205786619	8	2.92E-01
7	7.30E-01	0.021220747	7	8.19E-01
6	3.30E+00	-0.964227599	6	8.90E+01
31	4.61E+00	0.318687171	31	1.42E-02
5	8.89E-02	0.186930557	5	3.59E-01
8	1.03E-03	0.590046095	8	3.03E-02
5	3.99E-02	-0.793621306	5	2.37E+01

24	6.38E+00	-0.421281294	24	1.41E+03
2	3.26E-01	-0.216312648	2	1.15E+00
12	2.78E-02	0.082065367	12	6.72E-01
7	9.26E-02	1	7	6.86E-04
4	2.01E-03	1	4	7.06E-03
7	5.89E-03	-0.111644801	7	1.67E+00
3	1.84E-02	0.682433035	3	7.85E-02
3	7.48E-03	0.531644828	3	1.27E-01
7	1.51E-02	0.444423487	7	8.48E-02
1	6.01E-01	0.069477538	1	5.20E-01
72	5.29E-04	0.058185965	72	8.33E+00
10	2.35E+01	0.025469002	10	9.48E-01
3	3.51E-02	0.038683482	3	6.12E-01
13	7.09E-02	0.275576352	13	1.30E-01
4	7.49E-02	-0.27437341	4	2.07E+00
5	8.09E-02	-0.629732756	5	1.18E+01
8	8.53E-01	-0.617306062	8	3.76E+01
4	2.21E+00	-0.220654598	4	1.69E+00
10	2.94E-02	-0.1390147	10	2.99E+00
11	9.49E-05	0.637536568	11	1.00E-02
5	5.90E-03	-0.298600777	5	2.86E+00
3	1.66E-02	-0.346881204	3	2.10E+00
8	1.04E-04	0.379551319	8	1.05E-01
8	2.51E-01	1	8	2.07E-04
11	2.18E-02	-0.580900959	11	9.64E+01
13	1.04E-05	0.260050834	13	1.49E-01
3	8.23E-01	-0.006543744	3	7.07E-01
2	5.66E-01	0.023886593	2	6.06E-01
3	1.07E+00	-0.392910779	3	2.43E+00
7	9.54E-01	0.701782888	7	2.13E-02
23	4.57E+01	3	23	8.72E-19
10	1.34E+01	2	10	1.54E-07
5	3.52E+00	0.369345179	5	1.64E-01
3	1.12E+00	-0.350123829	3	2.12E+00
28	7.61E-05	0.418108241	28	3.66E-03
4	4.16E-03	0.271292987	4	2.70E-01
3	1.19E-04	1	3	8.08E-03
18	3.06E-11	0.321635899	18	5.21E-02
5	2.41E-03	-0.587323755	5	9.82E+00
18	1.18E-02	-0.412920187	18	2.13E+02
8	2.43E+00	-0.356817054	8	8.09E+00
7	2.08E-02	-0.509431618	7	1.41E+01
4	1.03E+01	-0.440251321	4	3.85E+00
4	5.97E-01	-1	4	6.97E+01
4	1.65E+00	-0.1851234	4	1.48E+00
6	1.49E+02	-0.684773485	6	2.32E+01
5	4.34E+00	0.213933318	5	3.19E-01

10	2.89E+00	1	10	9.38E-04
4	4.76E+00	-2	4	2.40E+02
10	1.22E+01	-0.062608749	10	1.75E+00
20	5.47E+08	-0.152185603	20	1.51E+01
4	6.32E+00	-0.519471169	4	5.17E+00
2	8.56E-02	-1	2	1.62E+01
20	3.10E-05	1	20	9.25E-07
24	4.78E-01	2	24	1.26E-11
3	3.69E+00	0.573719614	3	1.11E-01
25	7.01E-04	1	25	2.91E-07
6	2.93E-02	0.827484204	6	1.59E-02
10	1.25E+00	0.413278067	10	6.31E-02
11	4.86E-03	-0.000407726	11	1.22E+00
6	2.83E-01	-0.826344119	6	4.58E+01
13	1.51E+01	-0.441445109	13	6.27E+01
9	9.23E+01	-0.055667962	9	1.51E+00
2	2.28E-02	1	2	3.94E-02
16	3.22E+01	0.572181965	16	4.93E-03
9	1.48E+00	2	9	2.19E-05
10	1.69E+02	-0.313313581	10	1.01E+01
9	1.03E-04	-0.10242072	9	2.04E+00
2	1.11E+00	0.309129537	2	2.85E-01
5	8.93E-02	0.436867662	5	1.23E-01
34	5.79E-06	0.609729554	34	3.10E-05
5	2.78E+00	-0.879433842	5	3.42E+01
4	3.50E+01	-0.779182501	4	1.36E+01
28	1.79E-04	0.096842665	28	7.93E-01
25	4.04E+02	-0.184010655	25	5.25E+01
9	4.85E+00	0.426236486	9	6.77E-02
3	2.80E-01	-0.621023758	3	5.03E+00
15	3.43E-04	0.435729289	15	2.35E-02
9	1.55E-02	1	9	2.75E-04
5	5.88E-02	0.033839172	5	6.90E-01
14	3.82E+00	0.454799899	14	2.33E-02
10	1.39E+01	-0.993401498	10	1.17E+03
24	1.10E+00	0.113379229	24	5.80E-01
2	1.70E-01	0.417431483	2	2.14E-01
6	1.40E+01	-0.265575288	6	3.07E+00
3	8.88E-02	0.504421393	3	1.39E-01
37	1.35E-18	0.00971334	37	6.12E+00
2	1.68E-03	-0.765451494	2	4.91E+00
4	1.17E+00	-0.570679685	4	6.26E+00
11	1.40E+00	-0.358191445	11	1.80E+01
8	9.58E+00	-0.339685577	8	7.31E+00
3	3.05E-01	-0.775270189	3	8.22E+00
3	2.19E+00	-0.264603839	3	1.61E+00
5	7.75E-01	-0.598973611	5	1.03E+01

8	1.42E+03	0.004663614	8	9.58E-01
3	2.98E-01	0.014009159	3	6.62E-01
1	1.48E+00	-0.140824263	1	8.10E-01
2	6.94E-01	-0.365263723	2	1.70E+00
7	3.59E+01	-0.680949231	7	3.53E+01
1	7.75E-01	-0.313077604	1	1.16E+00
6	6.00E-01	0.001313251	6	8.50E-01
4	9.64E-02	1	4	1.13E-02
2	9.26E-02	0.063057861	2	5.46E-01
1	8.74E-02	-0.917090631	1	4.16E+00
4	6.32E-02	-0.472136459	4	4.33E+00
5	1.83E-02	-0.537111139	5	7.92E+00
7	1.41E+01	-0.643330935	7	2.89E+01
8	1.06E+00	1	8	1.26E-03
22	2.07E+01	3	22	5.28E-19
2	2.16E-01	0.269569326	2	3.16E-01
17	1.78E+01	-0.409259837	17	1.53E+02
4	1.07E+00	0.008999017	4	7.19E-01
1	5.43E-01	0.009241009	1	5.90E-01
8	1.03E+01	-0.419064219	8	1.17E+01
7	3.99E+00	-0.860503643	7	9.24E+01
14	8.05E+04	-0.715925766	14	1.05E+03
9	2.82E+00	-0.208042551	9	4.04E+00
7	8.62E-01	0.992569577	7	4.49E-03
21	8.67E-03	1	21	2.85E-06
10	1.29E-01	-0.248062218	10	6.41E+00
38	3.36E+02	-0.299324587	38	6.17E+03
12	1.83E+03	0.150293783	12	3.88E-01
11	1.60E-03	-0.251908036	11	8.10E+00
4	5.16E-02	1	4	6.95E-03
12	2.42E-01	0.517664434	12	2.00E-02
82	1.92E-14	0.103421111	82	1.53E+00
14	1.73E-03	-0.382814851	14	4.99E+01
13	1.99E-04	-0.572412194	13	1.94E+02
4	5.78E-01	-0.475806109	4	4.39E+00
6	1.41E+01	-0.670305051	6	2.16E+01
20	2.34E-04	0.374174764	20	2.20E-02
7	2.25E+02	-1	7	1.03E+03
10	4.97E+00	-0.625451719	10	8.95E+01
11	4.81E+01	-0.145980326	11	3.65E+00
7	2.43E-02	-0.918765575	7	1.26E+02
3	8.99E-02	-0.260495745	3	1.59E+00
17	6.22E+02	0.131614234	17	4.48E-01
4	7.01E-01	-0.066723894	4	9.53E-01
12	1.07E-03	-0.308587726	12	1.57E+01
1	5.19E-01	0	1	6.02E-01
9	7.86E-01	-0.347679724	9	9.93E+00

10	3.43E+01	-0.297839506	10	9.08E+00
29	2.66E+03	0.100884056	29	7.53E-01
3	1.43E+00	1	3	2.37E-02
3	3.40E-03	-0.200056303	3	1.31E+00
3	1.35E-04	-0.146394446	3	1.11E+00
9	4.31E-08	-6.11E-05	9	1.06E+00
8	2.37E-02	0.865240735	8	5.96E-03
11	1.02E-01	0.020203405	11	1.04E+00
5	8.49E-01	0.313660092	5	2.09E-01
10	6.45E+01	-0.142413468	10	3.06E+00
6	1.01E+01	0.685281811	6	3.15E-02
6	2.05E+01	0.081767173	6	5.77E-01
15	3.50E+02	-0.548239366	15	3.28E+02
16	1.70E+00	0.214365809	16	1.92E-01
21	3.86E-04	0.006199155	21	2.27E+00
9	3.56E-02	-0.969016721	9	5.44E+02
6	9.76E-01	0.242886907	6	2.65E-01
7	2.28E-01	-0.416091744	7	8.54E+00
4	1.15E-01	-0.617152067	4	7.44E+00
4	3.05E-02	-0.68116479	4	9.45E+00
4	7.03E-01	-0.139698834	4	1.25E+00
9	1.17E-01	-0.708960689	9	1.02E+02
2	2.23E-01	-0.092212819	2	8.24E-01
7	5.03E+00	-0.445563535	7	1.00E+01
16	6.70E-04	0.10051559	16	6.17E-01
3	3.73E-01	0.088485128	3	5.22E-01
13	1.65E+01	2	13	1.53E-06
7	1.27E+00	-0.284764632	7	4.22E+00
8	7.88E-03	0.997599162	8	2.73E-03
5	2.88E+01	1	5	7.13E-03
12	7.47E+02	0.268808736	12	1.49E-01
16	1.78E+02	-0.664685219	16	1.56E+03
9	4.43E+00	-0.767871503	9	1.49E+02
3	1.61E-01	-0.455546173	3	2.96E+00
21	1.12E-02	0.772474136	21	1.11E-04
18	3.42E-02	0.52788015	18	5.04E-03
7	2.31E-02	-0.662144124	7	3.19E+01
4	1.68E-01	0.425836316	4	1.52E-01
17	2.15E+02	-0.404145542	17	1.45E+02
9	1.59E+03	-0.806534037	9	1.91E+02
6	1.48E+00	0.121319835	6	4.77E-01
14	8.71E-03	0.75890765	14	1.44E-03
4	7.50E-02	3	4	5.46E-05
5	2.56E+00	0.775093079	5	2.90E-02
2	1.20E+00	-0.024847743	2	6.90E-01
5	5.73E+00	-0.995339493	5	5.62E+01
6	3.85E+00	-0.916304996	6	7.07E+01

6	1.84E-05	0.207806769	6	3.14E-01
6	1.85E-01	-0.364707198	6	4.96E+00
9	7.52E-01	0.010114945	9	9.89E-01
4	8.87E-01	-0.147658819	4	1.29E+00
12	5.44E+00	0.198101709	12	2.64E-01
8	3.74E+01	-0.097224669	8	1.75E+00
6	1.49E-01	-0.746662886	6	3.12E+01
13	1.27E+04	-1	13	2.25E+04
6	9.15E-01	0.170943609	6	3.75E-01
14	1.05E-01	0.778872161	14	1.20E-03
13	9.82E-04	1	13	1.64E-04
7	1.71E+01	-0.269438061	7	3.89E+00
37	1.03E+01	-0.014317285	37	1.03E+01
24	1.00E-05	-0.702078247	24	8.43E+04
4	6.59E-03	-0.140813427	4	1.26E+00
2	4.59E-02	-0.221860951	2	1.16E+00
8	2.63E-01	-1	8	5.82E+02
11	2.24E-02	0.725108055	11	5.18E-03
3	8.52E-03	-0.102267847	3	9.60E-01
12	4.54E-02	1	12	8.65E-05
1	2.56E-01	-0.484996103	1	1.67E+00
4	1.31E-02	-0.084648334	4	1.02E+00
13	3.68E-01	-0.094446072	13	3.16E+00
4	1.21E+00	-0.802324578	4	1.49E+01
5	2.22E+01	-1	5	1.76E+02
1	6.91E-01	-0.317572024	1	1.18E+00
126	3.91E+12	0.225247257	126	5.74E-04
26	2.37E+02	-0.670289045	26	1.26E+05
10	8.55E+00	0.299782099	10	1.40E-01
13	3.45E+01	0.631941036	13	6.05E-03
7	2.92E-01	0.166077899	7	3.77E-01
6	1.16E+00	-0.327217424	6	4.14E+00
12	6.18E-01	-0.007946431	12	1.39E+00
70	3.25E-08	0.047366305	70	1.18E+01
16	6.75E-03	-0.199164338	16	1.33E+01
19	1.70E-07	-0.486243383	19	6.83E+02
8	1.32E-05	0.293882222	8	1.74E-01
9	1.74E-05	1	9	2.24E-04
5	5.70E-08	2	5	2.48E-04
3	1.60E-02	-0.31920981	3	1.92E+00
9	2.71E-02	-0.762342665	9	1.44E+02
9	1.70E-01	0.081472686	9	6.25E-01
6	7.48E-02	0.229465251	6	2.83E-01
3	1.01E+00	-0.054765703	3	8.25E-01
9	1.53E+01	-0.437530296	9	1.77E+01
8	1.58E-01	0.129467036	8	4.58E-01
8	2.98E-03	0.290425598	8	1.77E-01

6	4.24E-06	2	6	2.76E-05
4	4.11E-02	2	4	1.63E-03
12	3.42E-02	0.593463772	12	1.08E-02
5	6.41E-03	0.683523735	5	4.29E-02
19	2.65E-05	0.556201861	19	2.90E-03
62	3.83E-03	0.699984952	62	8.85E-10
18	8.47E+01	0.515948406	18	5.77E-03
11	6.13E+00	2	11	6.57E-06
6	6.32E-01	2	6	3.55E-04
2	5.94E-01	0.064761	2	5.44E-01
6	1.93E+02	-0.188025035	6	2.12E+00
12	8.68E+01	0.024233812	12	1.07E+00
23	1.45E+08	2	23	1.91E-13
8	9.63E+04	4	8	4.57E-10
19	2.35E-02	0.247397733	19	1.13E-01
3	7.07E-01	-0.245540301	3	1.52E+00
5	6.57E-01	-0.06836878	5	1.07E+00
3	1.07E+00	-0.097024604	3	9.44E-01
8	2.50E-01	0.102575578	8	5.37E-01
4	1.21E+00	-0.602048153	4	7.03E+00
13	2.25E+03	0.847577694	13	9.45E-04
38	3.55E+10	2	38	2.92E-21
39	2.95E+11	2	39	4.90E-16
11	1.49E+03	0.131897798	11	4.50E-01
30	1.78E-07	0.769104111	30	5.12E-06
10	7.75E-04	0.030466883	10	9.16E-01
6	6.84E-01	1	6	8.43E-04
4	9.37E-02	0.422234864	4	1.54E-01
13	5.34E-07	-0.018013454	13	1.63E+00
7	3.71E+00	-0.870238402	7	9.74E+01
7	8.90E+00	-0.261920027	7	3.74E+00
8	4.01E+03	-0.643531102	8	4.39E+01
2	2.23E-01	0.03510045	2	5.88E-01
1	2.88E-01	0.05157303	1	5.40E-01
5	1.01E-02	1	5	2.95E-03
21	7.22E-11	0.341962158	21	2.93E-02
10	1.31E-01	-0.107965631	10	2.41E+00
6	2.00E-01	0.55126223	6	6.01E-02
4	3.26E-01	0.734799246	4	4.78E-02
21	5.16E-03	0.260351898	21	8.43E-02
4	2.49E-02	0.817199682	4	3.52E-02
9	3.24E-04	0.919120958	9	2.83E-03
2	1.22E-01	0.775032335	2	8.29E-02
2	5.32E-01	0.08349626	2	5.18E-01
6	1.87E-01	0.284784378	6	2.17E-01
3	6.42E-01	-0.478424735	3	3.19E+00
2	7.06E-01	-0.152800055	2	9.68E-01

1	5.55E-01	0.041553775	1	5.51E-01
3	1.38E+00	-0.311813018	3	1.87E+00
3	6.61E-01	-0.177856966	3	1.22E+00
5	1.78E+00	0.355815944	5	1.74E-01
12	3.18E+02	0.008676292	12	1.22E+00
11	3.73E+05	-0.686870839	11	2.14E+02
42	2.25E-02	-0.002206842	42	1.13E+01
2	4.04E-01	-0.059568962	2	7.56E-01
3	2.38E-01	-0.270308962	3	1.64E+00
6	3.10E-01	-0.186959419	6	2.11E+00
4	1.86E-01	0.02563575	4	6.75E-01
26	5.50E-06	2	26	1.60E-10
9	5.18E-04	-0.417583763	9	1.56E+01
21	2.89E-09	0.339872339	21	3.01E-02
4	2.78E-03	0.865720464	4	2.93E-02
8	5.06E-04	-0.508581044	8	1.98E+01
11	1.38E-01	0.194217631	11	2.82E-01
17	5.64E-08	0.391103272	17	2.73E-02
34	2.67E+00	0.413354605	34	1.57E-03
15	1.66E-02	0.482157609	15	1.50E-02
3	1.37E-04	2	3	1.23E-03
24	8.46E-16	1	24	3.66E-09
6	1.98E-01	0.182544664	6	3.55E-01
3	6.45E-02	-0.229306128	3	1.44E+00
5	3.07E-02	-0.881303474	5	3.45E+01
12	2.88E-01	-0.136355306	12	3.92E+00
6	2.63E-01	0.40899333	6	1.19E-01
13	1.06E-02	2	13	1.75E-06
17	1.18E+00	1	17	2.48E-06
10	7.61E-04	2	10	2.87E-05
9	3.61E-02	-0.192040093	9	3.64E+00
17	3.26E-08	0.252961612	17	1.21E-01
16	4.17E-06	0.824214502	16	3.73E-04
4	1.46E-03	0.352092367	4	2.00E-01
10	1.36E-02	-0.036185476	10	1.46E+00
10	3.31E-02	-0.529270066	10	4.57E+01
5	4.77E+00	-0.221118531	5	2.05E+00
3	1.22E-01	0.026577705	3	6.36E-01
11	1.11E+03	-0.901700983	11	1.08E+03
7	1.47E+00	0.25942469	7	2.28E-01
7	5.48E+00	-0.556960211	7	1.82E+01
55	8.86E-05	-0.022094924	55	5.36E+01
13	5.41E-03	0.124871857	13	4.77E-01
14	2.13E-04	0.379244215	14	4.66E-02
37	9.23E-06	0.116398853	37	6.10E-01
6	1.02E-01	0.113180142	6	4.96E-01
12	1.66E-04	0.354115594	12	7.48E-02

8	8.35E-02	1	8	1.01E-03
8	2.77E-04	2	8	2.11E-05
5	2.73E-02	-0.491575146	5	6.52E+00
34	2.60E-17	0.692872103	34	5.88E-06
5	9.12E-02	-0.736060996	5	1.86E+01
64	9.33E-28	1	64	1.63E-17
10	5.96E-05	0.690966542	10	9.07E-03
30	2.64E-09	0.518124634	30	4.49E-04
9	6.22E-02	0.361035627	9	1.03E-01
21	2.15E-02	1	21	1.40E-06
14	7.34E-04	-0.150900038	14	5.97E+00
9	5.76E-03	-0.502089475	9	2.68E+01
12	5.94E-03	0.639928776	12	7.45E-03
5	1.26E-01	0.315410725	5	2.07E-01
8	5.23E-03	0.103991777	8	5.33E-01
5	1.46E-01	0.198387471	5	3.41E-01
7	6.73E-01	0.448532977	7	8.29E-02
6	7.28E-01	2	6	3.66E-04
6	4.39E-01	0.638077316	6	3.95E-02
12	4.61E-01	-0.080823103	12	2.50E+00
25	1.79E-01	-0.196221931	25	6.32E+01
7	1.11E+01	-0.451407494	7	1.03E+01
14	9.89E-05	1	14	2.09E-06
5	1.54E-01	0.937738129	5	1.45E-02
7	3.72E-03	2	7	3.82E-05
1	1.46E+00	-0.042113636	1	6.58E-01
6	5.93E-02	-0.025598238	6	9.68E-01
28	3.53E-02	-0.307881105	28	6.96E+02
16	1.56E-01	-0.680862868	16	1.84E+03
12	1.47E+00	0.872709042	12	1.14E-03
19	3.28E-02	0.565432992	19	2.60E-03
4	8.65E-05	2	4	2.04E-04
11	7.30E-03	0.522182252	11	2.38E-02
3	1.46E-02	0.64806564	3	8.76E-02
2	1.19E-02	0.391646257	2	2.29E-01
10	1.49E-02	-0.245250478	10	6.29E+00
14	4.10E+02	-0.928219459	14	7.36E+03
6	8.29E-01	-0.383644586	6	5.43E+00
14	4.31E+01	-0.300712603	14	2.35E+01
7	2.50E+00	-0.133959183	7	1.88E+00
6	7.77E-02	0.118793887	6	4.83E-01
26	1.31E+03	-0.79068062	26	8.32E+05
8	1.28E-01	-0.151910505	8	2.41E+00
13	4.51E-04	0.6667651	13	4.48E-03
17	5.11E-01	0.941828058	17	7.21E-05
13	1.10E-01	0.400902603	13	4.43E-02
1	5.52E-01	-0.037222424	1	6.51E-01

15	1.31E+00	0.451094243	15	2.03E-02
9	2.73E+01	-0.925647322	9	4.11E+02
7	2.43E-01	-0.309784964	7	4.83E+00
13	3.63E-06	-0.710382122	13	6.35E+02
3	3.52E-04	-0.444288095	3	2.86E+00
7	1.37E-05	-0.074531793	7	1.37E+00
13	1.81E-03	0.79866157	13	1.44E-03
11	3.40E-04	2	11	1.05E-06
9	1.25E-05	2	9	2.07E-06
8	3.06E-04	0.629916399	8	2.39E-02
8	1.49E-07	2	8	5.01E-05
2	1.83E-02	-0.415143873	2	1.94E+00
4	2.49E+00	-0.03372846	4	8.43E-01
3	2.27E-01	0.911080308	3	3.78E-02
4	1.45E+00	0.814422768	4	3.55E-02
8	4.03E+01	0.623181281	8	2.49E-02
5	8.74E+00	-0.119389919	5	1.33E+00
4	3.25E+00	-2	4	1.10E+03
8	3.57E-01	-0.984897322	8	3.29E+02
1	4.59E-01	-0.088784704	1	7.26E-01
20	1.64E+02	0.035482785	20	1.47E+00
7	1.24E-01	-2	7	1.08E+04
14	1.47E+00	2	14	3.69E-07
6	2.13E+00	1	6	4.74E-03
19	3.76E+05	-0.443501506	19	4.12E+02
2	5.65E-01	0.022874401	2	6.08E-01
4	1.16E-01	-0.844528729	4	1.74E+01
13	3.21E-03	-0.461643244	13	7.46E+01
4	5.93E-01	-0.424751458	4	3.63E+00
9	7.74E+01	-0.180935307	9	3.39E+00
7	7.02E+01	1	7	2.32E-03
17	1.07E+02	-0.443975913	17	2.22E+02
14	7.73E+01	-0.211950371	14	1.04E+01
6	2.15E+00	-0.245975198	6	2.80E+00
15	2.03E-04	0.069115553	15	8.24E-01
16	1.68E-01	0.635679692	16	2.57E-03
5	4.33E-02	0.24991406	5	2.74E-01
17	7.79E+02	-0.012048054	17	2.11E+00
2	2.99E+00	-0.033683642	2	7.06E-01
4	3.24E+00	-0.599074892	4	6.96E+00
13	2.11E-04	0.640257294	13	5.64E-03
9	2.76E+00	-0.773671473	9	1.55E+02
38	3.15E-03	-0.189047578	38	5.35E+02
15	3.05E-04	1	15	6.51E-06
11	1.41E-01	0.827790555	11	2.39E-03
15	4.71E+01	-0.793828252	15	3.55E+03
6	1.17E+01	0.113902711	6	4.94E-01

22	2.28E+10	-0.041366772	22	4.60E+00
6	1.26E+03	-0.567826701	6	1.32E+01
5	3.50E-03	1	5	5.58E-03
3	2.54E-01	0.040202888	3	6.09E-01
16	1.70E-03	0.682207435	16	1.60E-03
4	4.95E-02	0.509599016	4	1.11E-01
7	9.06E-02	0.178861335	7	3.52E-01
6	7.09E-01	-0.346078211	6	4.53E+00
7	3.13E-03	-0.472797208	7	1.16E+01
3	7.17E-02	-0.510870437	3	3.54E+00
10	1.09E+00	-0.511345271	10	4.03E+01
8	4.40E+01	-0.526908546	8	2.21E+01
5	2.24E+00	1	5	5.50E-03
27	1.97E+02	-0.254375438	27	2.31E+02
7	1.34E+01	-0.582832984	7	2.09E+01
3	8.91E-01	-0.018433382	3	7.35E-01
54	2.42E+30	-0.42602879	54	1.27E+07
4	5.87E-02	-0.356509511	4	2.81E+00
6	1.97E-02	-0.224429526	6	2.52E+00
6	3.57E-01	-0.336424185	6	4.33E+00
2	5.17E-01	-0.020469368	2	6.82E-01
7	6.03E-01	-0.124488184	7	1.79E+00
35	1.28E-05	0.678825775	35	5.78E-06
2	9.69E-02	0.339181859	2	2.63E-01
10	7.76E-02	-0.39951115	10	1.85E+01
5	3.98E-02	-0.12201288	5	1.34E+00
4	4.91E-01	-0.29479165	4	2.23E+00
4	4.32E-01	-0.157393985	4	1.34E+00
4	2.84E-02	-0.135023005	4	1.23E+00
6	4.44E-02	-0.063727205	6	1.16E+00
5	3.23E+00	-0.429743184	5	5.01E+00
32	1.75E+05	-0.491047807	32	5.74E+04
16	5.33E+02	-0.702906106	16	2.31E+03
3	2.76E+00	-0.692204286	3	6.31E+00
2	1.47E+00	-0.274880415	2	1.34E+00
18	6.94E+04	-0.653817963	18	3.26E+03
4	2.54E-01	0.997209356	4	1.80E-02
11	8.43E+06	-0.793772099	11	4.79E+02
8	3.36E+02	0.36259008	8	1.16E-01
5	8.53E+00	0.336498621	5	1.89E-01
14	2.70E-01	-0.110569854	14	4.13E+00
8	3.05E+02	0.135160715	8	4.43E-01
13	3.57E+09	-0.202675078	13	8.01E+00
12	5.75E+04	-0.617099102	12	1.90E+02
4	5.04E-01	0.292094371	4	2.50E-01
5	1.97E+02	1	5	4.45E-03
4	1.29E+01	-0.328539595	4	2.53E+00

2	6.10E-01	-0.047292217	2	7.32E-01
3	5.98E-01	-0.064877391	3	8.52E-01
9	3.39E+10	-2	9	9.92E+05
15	2.07E+05	-1	15	2.73E+04
12	7.46E+03	-0.296039357	12	1.42E+01
18	2.80E+00	-0.320288863	18	7.47E+01
30	3.60E-08	-0.28694134	30	7.70E+02
11	4.98E+00	-0.037538207	11	1.61E+00
44	7.04E-01	0.263637541	44	1.52E-02
9	2.82E+01	0.079230156	9	6.34E-01
7	8.41E-01	-0.68439954	7	3.60E+01
10	1.58E-01	-0.35325486	10	1.34E+01
4	2.61E+00	-0.903550558	4	2.17E+01
8	7.54E-02	-0.342353683	8	7.43E+00
9	7.79E+00	-0.48962217	9	2.48E+01
71	1.39E-11	-0.123702442	71	1.17E+04
19	2.59E+02	0.644273389	19	1.02E-03
6	9.36E+02	-0.246907147	6	2.81E+00
11	1.59E+01	-0.064045077	11	1.97E+00
11	2.15E-03	0.201286831	11	2.67E-01
32	5.96E-04	0.106715652	32	7.06E-01
9	1.73E-02	0.275818646	9	1.79E-01
31	2.03E+11	-0.194638548	31	1.77E+02
4	8.32E-01	2	4	7.34E-04
7	5.73E+00	1	7	1.72E-03
16	1.38E+01	0.857985127	16	2.64E-04
2	7.94E-01	0.579471653	2	1.39E-01
19	4.76E-01	0.31338245	19	5.18E-02
18	1.53E-03	1	18	4.51E-06
14	2.58E+00	0.467211115	14	2.08E-02
4	1.74E-01	0.896730734	4	2.61E-02
6	5.26E-02	0.049686173	6	6.73E-01
20	1.58E-03	-0.21194165	20	3.17E+01
111	2.54E-20	-0.63993352	111	1.98E+20
5	2.46E-04	-0.340547944	5	3.42E+00
3	1.68E-02	-0.066957774	3	8.58E-01
4	3.20E-04	1	4	7.99E-03
6	6.60E-05	2	6	2.84E-04
4	1.98E-01	-0.148434224	4	1.29E+00
10	4.01E+02	-1	10	2.82E+03
7	3.02E+00	-0.787416298	7	6.25E+01
14	1.85E+00	-0.239083409	14	1.34E+01
6	4.20E+00	1	6	4.76E-03
24	1.82E+02	2	24	1.76E-11
8	1.31E+00	-0.361237884	8	8.30E+00
8	7.82E-01	-0.567140081	8	2.80E+01
5	5.30E-01	0.469224746	5	1.07E-01

36	2.13E-04	-0.557975865	36	9.05E+05
3	5.06E-01	-1	3	5.94E+01
6	3.38E-01	1	6	1.23E-03
7	3.97E+00	0.138576321	7	4.37E-01
7	9.48E+01	-0.708225118	7	4.09E+01
7	3.75E-01	0.049272415	7	7.05E-01
2	1.62E-01	-0.27268637	2	1.33E+00
15	7.09E-02	-0.604662872	15	5.67E+02
11	9.98E-04	-0.480410363	11	4.52E+01
18	7.48E-02	0.19464398	18	2.19E-01
5	4.08E-01	0.301023278	5	2.20E-01
6	2.57E+00	-0.096494809	6	1.36E+00
9	7.51E+01	0.719605095	9	1.02E-02
6	2.79E+02	0.931330343	6	9.63E-03
5	9.96E-01	-0.487113646	5	6.40E+00
6	1.35E+00	-1	6	1.04E+03
6	2.98E-01	-0.281697482	6	3.32E+00
13	4.24E-02	0.168183786	13	3.29E-01
10	9.16E-03	0.680932004	10	9.73E-03
11	7.84E-04	0.545998485	11	1.99E-02
10	2.03E-01	-0.217722124	10	5.19E+00
18	4.44E-04	0.711457715	18	6.30E-04
7	4.98E-02	2	7	2.72E-05
2	6.22E-01	0.166611519	2	4.15E-01
7	4.89E-02	-0.428779944	7	9.14E+00
44	2.41E-17	0.476721374	44	6.75E-05
16	1.15E-04	-0.150729339	16	8.08E+00
10	3.64E-02	-0.071006587	10	1.86E+00
3	9.49E-02	-0.460690451	3	3.01E+00
50	2.90E-06	0.110973823	50	7.82E-01
12	9.51E+01	-0.835102401	12	1.10E+03
4	3.61E-01	-0.018444884	4	7.96E-01
8	4.74E-01	0.218980995	8	2.70E-01
5	1.91E-01	-0.068834622	5	1.07E+00
8	2.81E+03	-1	8	1.48E+03
60	7.56E-19	-0.205079979	60	4.14E+04
15	3.89E+00	0.337839978	15	6.08E-02
18	1.20E+04	0.242361626	18	1.28E-01
9	3.85E-02	0.651721917	9	1.58E-02
10	5.53E-03	0.455536188	10	4.70E-02
8	1.92E-01	0.313186908	8	1.55E-01
16	1.53E-03	0.391723899	16	3.13E-02
16	8.12E+01	0.415522151	16	2.45E-02
7	2.20E-01	0.480913869	7	6.97E-02
11	2.79E+02	1	11	4.40E-04
6	2.27E+00	0.939171338	6	9.27E-03
5	1.71E-01	0.369835514	5	1.64E-01

8	2.06E-01	-0.11257375	8	1.91E+00
24	3.00E+00	1	24	2.20E-07
9	1.28E+00	0.519870438	9	3.70E-02
6	1.09E+00	0.15959199	6	3.96E-01
11	5.73E+02	-1	11	2.34E+03
8	1.05E-02	0.047078547	8	7.46E-01
19	3.29E-01	2	19	3.00E-08
4	2.50E-01	0.461394038	4	1.33E-01
23	3.03E-05	0.818567718	23	2.90E-05
3	3.17E-06	1	3	1.30E-02
13	1.23E-02	2	13	1.63E-06
23	3.58E-03	0.74658499	23	7.95E-05
19	2.00E-04	-0.32988556	19	1.07E+02
10	5.80E-03	0.061122465	10	7.39E-01
6	7.98E-04	-0.256939742	6	2.95E+00
4	2.37E-05	1	4	5.12E-03
5	9.40E-02	2	5	4.51E-04
11	4.26E-03	0.13924649	11	4.26E-01
46	3.24E-02	-0.160089509	46	9.90E+02
23	6.19E-02	-0.134060986	23	1.85E+01
16	2.09E-06	1	16	9.12E-06
6	4.70E-02	0.657156266	6	3.61E-02
19	8.55E-03	0.802927103	19	1.55E-04
14	1.03E-02	1	14	5.87E-05
4	4.71E-02	2	4	6.89E-05
12	2.52E-06	0.60120307	12	1.02E-02
11	3.73E-02	-0.068507172	11	2.04E+00
6	2.76E-02	-0.503262552	6	9.66E+00
2	2.92E-01	-0.244640173	2	1.23E+00
4	2.28E-01	0.418313912	4	1.56E-01
12	2.89E-01	-0.22319429	12	7.90E+00
32	5.22E+03	-0.424402664	32	1.63E+04
5	1.86E-01	-0.225978684	5	2.10E+00
1	4.91E-01	-0.306809856	1	1.15E+00
8	5.47E+00	0.240869969	8	2.38E-01
1	4.85E-01	0.049775738	1	5.42E-01
7	8.02E+00	-0.309321723	7	4.82E+00
11	1.94E+03	-1	11	3.28E+03
2	3.48E-01	-0.228151613	2	1.18E+00
13	3.29E+00	0.109068936	13	5.47E-01
10	1.89E-01	1	10	1.73E-04
14	1.04E+00	-0.115675387	14	4.33E+00
2	5.55E-01	-0.024682844	2	6.89E-01
33	1.78E+09	-0.70397162	33	5.06E+06
6	2.08E+00	-0.31922298	6	3.98E+00
2	5.66E-01	0.007186407	2	6.34E-01
3	7.79E-01	-0.07293049	3	8.74E-01

4	4.37E-01	-0.008428177	4	7.67E-01
2	2.98E-01	-0.120055235	2	8.88E-01
21	7.23E-08	1	21	1.24E-07
13	1.96E+01	0.754518566	13	2.11E-03
4	1.11E+00	-0.098159307	4	1.07E+00
15	4.16E+05	-0.594851748	15	5.15E+02
14	1.66E+00	-0.335278222	14	3.23E+01
16	4.90E+04	-0.784351917	16	5.31E+03
9	1.97E+03	-1	9	2.42E+03
10	2.46E+01	0.578499481	10	1.99E-02
7	6.46E+00	-1	7	6.38E+02
7	1.45E+04	-0.687396302	7	3.65E+01
6	2.55E+00	0.438548008	6	1.03E-01
15	1.03E+02	0.808325328	15	6.35E-04
6	1.40E+00	0.07516868	6	5.95E-01
18	6.05E+03	0.385783411	18	2.52E-02
19	1.20E+01	-0.464653191	19	5.29E+02
4	7.89E-03	-0.480753486	4	4.47E+00
5	2.66E-05	-0.01579241	5	8.53E-01
5	2.76E-02	0.073676919	5	5.82E-01
7	6.32E-01	0.497091097	7	6.39E-02
12	1.31E-03	1	12	1.46E-04
2	5.55E-01	0	2	6.46E-01
36	4.67E-02	-0.164763819	36	2.27E+02
10	2.73E-05	-0.004754389	10	1.17E+00
20	2.20E-05	0.560507042	20	2.18E-03
6	4.17E-03	0.790528976	6	1.90E-02
15	3.22E-03	-0.189928971	15	1.02E+01
10	2.43E+00	-0.429976555	10	2.28E+01
11	5.22E-02	0.215998676	11	2.39E-01
19	4.48E-12	0.34831652	19	3.42E-02
4	2.31E+00	-0.627428781	4	7.73E+00
8	1.04E+01	-0.819290368	8	1.24E+02
20	3.86E+02	-0.315796441	20	1.15E+02
1	5.51E-01	6.76E-05	1	6.02E-01
6	1.12E+00	-0.105060919	6	1.42E+00
3	1.09E+00	0.339446073	3	2.35E-01
4	1.52E+00	-0.278465222	4	2.10E+00
11	6.84E+02	0.076209234	11	6.85E-01
2	5.64E-01	-0.02027869	2	6.81E-01
3	7.03E-01	-0.173802238	3	1.21E+00
13	2.59E+00	0.824351177	13	1.15E-03
4	2.81E+01	-0.076639119	4	9.89E-01
6	4.99E+01	0.426823196	6	1.09E-01
15	1.05E+01	2	15	1.55E-07
5	6.87E+00	0.179141842	5	3.71E-01
8	2.79E+01	0.950030971	8	3.61E-03

22	3.96E-02	1	22	1.21E-06
10	2.70E-01	-0.467927791	10	2.98E+01
9	5.65E-01	-0.06432815	9	1.60E+00
8	3.38E-02	-0.427126769	8	1.22E+01
18	9.53E-05	-0.497072548	18	5.53E+02
3	2.04E-02	0.532190384	3	1.27E-01
7	9.70E-02	0.577331814	7	4.16E-02
8	3.32E-02	-0.183190438	8	2.90E+00
7	2.35E+01	-0.931115456	7	1.35E+02
4	5.02E-01	-0.62741305	4	7.73E+00
2	3.68E-01	-0.11482439	2	8.75E-01
26	5.14E-07	0.563842194	26	5.10E-04
6	5.93E-02	-0.126266946	6	1.57E+00
4	6.08E-01	0.708113489	4	5.28E-02
11	2.89E-03	1	11	3.05E-05
4	6.63E-01	1	4	1.65E-02
11	2.55E+02	-0.539567097	11	7.06E+01
17	4.41E+01	-0.61995701	17	1.48E+03
9	9.24E-01	-0.083809985	9	1.81E+00
6	8.45E-02	0.440187702	6	1.03E-01
3	1.93E-01	0.13690134	3	4.48E-01
9	1.37E-02	1	9	8.48E-05
47	1.20E-03	-0.129416156	47	5.05E+02
4	4.57E-02	-0.24430657	4	1.85E+00
11	1.97E+00	-0.21357775	11	6.07E+00
9	2.60E-01	0.751804394	9	8.31E-03
6	9.30E-01	-0.059658522	6	1.14E+00
17	2.14E+02	-1	17	1.13E+06
8	3.25E-01	-0.10743114	8	1.86E+00
3	2.04E-01	0.33499307	3	2.38E-01
20	2.69E-01	0.104882945	20	6.23E-01
4	3.08E-01	-0.941547476	4	2.50E+01
12	1.99E+03	-0.965523411	12	3.16E+03
13	4.23E+01	-0.435666635	13	5.96E+01
6	1.14E-06	1	6	2.26E-03
22	5.05E-03	0.176299715	22	2.44E-01
8	8.34E-02	2	8	5.15E-05
6	4.94E-03	-0.270041463	6	3.14E+00
8	1.49E-01	-0.215841099	8	3.52E+00
1	6.81E-01	-0.217249354	1	9.51E-01
6	3.93E-01	0.570417805	6	5.48E-02
8	2.10E-02	3	8	8.74E-08
9	3.12E-05	1	9	2.31E-04
9	9.23E-02	-0.295094218	9	7.07E+00
17	1.00E+05	0.036548525	17	1.25E+00
9	2.00E-01	0.14271346	9	4.21E-01
6	7.94E-05	0.392480328	6	1.29E-01

7	1.37E-03	0.160110322	7	3.89E-01
6	4.08E-01	-0.107145784	6	1.43E+00
7	1.13E+00	-0.558862342	7	1.83E+01
13	2.74E-02	-0.073973275	13	2.65E+00
2	7.95E-03	-0.456122787	2	2.16E+00
12	2.06E-03	0.772584194	12	2.55E-03
4	3.39E-02	0.709628505	4	5.25E-02
14	8.21E-06	1	14	1.59E-05
6	9.17E-06	0.652584105	6	3.69E-02
8	1.58E-01	-0.471731544	8	1.59E+01
6	5.57E+01	-0.658191258	6	2.04E+01
9	3.63E+03	-0.971024063	9	5.51E+02
11	1.08E+01	0.073882926	11	6.97E-01
5	1.00E+00	-0.472933992	5	6.02E+00
3	2.68E+00	-0.039128599	3	7.85E-01
8	2.62E+00	-0.687187177	8	5.68E+01
11	2.08E+03	-1	11	6.90E+03
9	4.25E+00	-0.750813788	9	1.33E+02
5	2.53E-01	-0.026557406	5	8.93E-01
3	4.95E-01	-0.519563545	3	3.64E+00
44	4.15E+04	1	44	9.10E-14
6	9.45E-01	0.2542628	6	2.51E-01
12	8.08E+00	-0.307760113	12	1.56E+01
10	2.64E-02	0.483502744	10	3.87E-02
19	8.50E-03	0.357410371	19	3.07E-02
54	8.62E-04	0.257736485	54	8.81E-03
1	3.23E-01	0.355121158	1	2.85E-01
15	4.00E+02	-0.378816895	15	6.34E+01
5	7.69E+01	-0.48085191	5	6.23E+00
16	3.04E-02	0.464140177	16	1.49E-02
11	2.24E-01	0.585006752	11	1.49E-02
2	2.97E+00	0.048492535	2	5.68E-01
8	4.50E+02	0.416119491	8	8.44E-02
9	1.38E+00	-0.75618492	9	1.38E+02
7	6.04E+02	-0.335999043	7	5.56E+00
6	2.53E-02	1	6	4.79E-03
5	8.36E-02	0.029458812	5	7.03E-01
1	1.99E-01	0.000849423	1	6.01E-01
13	1.62E-01	-0.090406684	13	3.05E+00
15	8.17E-05	0.036899933	15	1.13E+00
4	3.55E-01	-0.353524539	4	2.78E+00
3	2.76E+00	-0.605509548	3	4.78E+00
1	4.80E-01	-0.015182096	1	6.21E-01
15	1.68E+02	0.553026859	15	7.55E-03
7	9.36E+00	-2	7	3.43E+03
3	7.41E+00	0.115515955	3	4.79E-01
4	1.67E+00	-0.246901501	4	1.87E+00

25	2.80E+05	-0.926074379	25	3.91E+06
2	1.24E+00	-1	2	1.72E+01
8	4.85E+01	-0.774872924	8	9.54E+01
30	4.19E-04	0.495987206	30	6.67E-04
8	2.21E-01	-0.940509732	8	2.53E+02
6	2.18E+02	-0.180139737	6	2.04E+00
2	2.08E-01	-0.32867483	2	1.54E+00
5	4.75E-03	0.487575351	5	9.91E-02
16	1.87E+06	-0.448814154	16	1.71E+02
14	8.68E+08	1	14	9.10E-06
12	1.88E+00	1	12	3.25E-05
8	1.82E-01	0.098864333	8	5.49E-01
6	2.24E-02	0.359011497	6	1.52E-01
3	1.78E+01	-0.368747256	3	2.25E+00
7	3.14E+01	-0.339711512	7	5.67E+00
17	1.52E+02	-1	17	4.92E+05
3	1.36E-03	1	3	1.61E-02
13	3.90E-04	0.133683578	13	4.42E-01
4	8.18E-02	-0.766182915	4	1.30E+01
19	4.37E+00	-0.741775479	19	1.42E+04
12	9.66E-02	0.636290516	12	7.67E-03
14	1.11E+01	-0.026785202	14	1.92E+00
4	6.95E-03	-0.093133078	4	1.05E+00
17	3.18E-10	0.984129086	17	4.57E-05
12	9.12E-01	-0.955503226	12	2.91E+03
25	5.49E-02	0.131610832	25	4.44E-01
3	1.61E-01	0.643377632	3	8.89E-02
26	1.37E+00	0.349127561	26	1.47E-02
33	1.10E+03	0.384056259	33	3.24E-03
6	5.68E+00	-1	6	8.15E+02
10	2.61E-03	0.334716397	10	1.09E-01
11	1.08E+03	-0.724983306	11	2.85E+02
15	3.25E+02	0.709613789	15	1.65E-03
8	2.15E+01	0.631959611	8	2.36E-02
14	1.87E-01	0.5782063	14	7.54E-03
24	5.32E-03	0.707767734	24	1.00E-04
7	4.54E-03	0.388790584	7	1.14E-01
8	2.82E+00	0.157815239	8	3.88E-01
15	1.40E-01	0.005817391	15	1.52E+00
24	5.17E-06	-0.199620466	24	5.56E+01
5	2.37E-05	-0.251056167	5	2.33E+00
5	3.49E-02	0.579321472	5	6.70E-02
2	5.65E-01	-0.365712412	2	1.70E+00
9	6.48E-01	0.55355751	9	2.98E-02
9	1.04E-02	2	9	1.19E-05
3	6.89E-01	0.017659514	3	6.55E-01
17	2.72E+06	-0.732415492	17	4.98E+03

11	2.41E+03	-1	11	2.40E+03
2	5.97E-01	-0.025649786	2	6.91E-01
6	3.01E-02	0.046793095	6	6.83E-01
3	2.92E-02	0.425060129	3	1.78E-01
4	2.15E-01	0.514874889	4	1.09E-01
3	9.50E-01	0.676070018	3	8.01E-02
7	2.60E-01	0.612621578	7	3.44E-02
3	1.07E+00	0.273666228	3	2.89E-01
3	1.42E+00	-0.75883592	3	7.80E+00
8	4.65E-01	-0.584125722	8	3.09E+01
39	3.09E-03	-0.446661687	39	2.21E+05
7	1.93E+01	-0.410772932	7	8.30E+00
15	9.67E+01	0.732815457	15	1.32E-03
7	6.08E-02	0.051150184	7	6.98E-01
69	1.49E-03	0.355783974	69	6.81E-05
10	2.97E-04	0.509776352	10	3.22E-02
4	4.00E-03	3	4	1.93E-05
8	2.13E-02	0.691236203	8	1.66E-02
22	4.83E-05	0.083818318	22	8.50E-01
1	5.61E-01	-0.313077604	1	1.16E+00
5	2.19E+02	-0.169910332	5	1.65E+00
6	2.79E-01	0.594379218	6	4.88E-02
15	7.94E-02	0.860305749	15	3.83E-04
3	4.00E-01	0.614221218	3	9.76E-02
22	5.61E+01	0.333173408	22	2.94E-02
3	2.36E-01	-0.060576339	3	8.41E-01
5	8.84E-03	0.434626571	5	1.24E-01
7	1.92E-01	-0.074885642	7	1.37E+00
46	2.13E+02	0.408115839	46	2.85E-04
6	1.42E+00	0.341094992	6	1.65E-01
3	4.34E+00	-0.2832133	3	1.71E+00
4	1.40E+01	-1	4	1.21E+02
11	2.33E-01	-0.239120896	11	7.35E+00
21	1.00E-01	-0.376530163	21	3.22E+02
9	3.44E+02	-0.834773857	9	2.29E+02
13	4.89E+00	0.330570921	13	8.11E-02
10	3.49E-03	1	10	3.81E-05
13	3.29E-01	0.660785228	13	4.72E-03
4	4.60E-01	0.28554902	4	2.56E-01
20	6.17E-03	0.538876261	20	2.85E-03
8	2.33E-01	0.439251722	8	7.37E-02
19	2.68E-01	0.067272423	19	9.60E-01
5	1.15E+00	-0.120401618	5	1.33E+00
23	2.70E+00	-0.172960155	23	3.20E+01
28	9.75E+02	-0.657845557	28	2.44E+05
20	5.32E+01	0.325445787	20	4.03E-02
7	1.83E-04	1	7	1.21E-03

31	2.35E-01	-0.158981352	31	9.20E+01
10	5.62E+00	0.045441851	10	8.25E-01
7	9.31E+04	-1	7	1.69E+03
2	1.38E+00	-0.039272153	2	7.17E-01
15	4.31E+04	0.067031172	15	8.40E-01
31	6.95E-01	0.148602402	31	3.23E-01
3	5.38E-01	-0.011092141	3	7.18E-01
7	1.57E-01	1	7	1.52E-03
14	3.47E+02	-0.177046106	14	7.59E+00
11	5.60E-06	0.014478529	11	1.09E+00
4	3.33E+01	-2	4	6.34E+02
8	2.02E+02	-0.514131193	8	2.05E+01
5	7.98E-01	0.249665371	5	2.74E-01
19	9.65E-07	1	19	6.84E-06
16	6.36E+00	0.270103593	16	1.09E-01
8	3.13E+01	0.466189902	8	6.28E-02
7	8.63E-03	0.256699114	7	2.32E-01
44	1.70E-06	-0.299382057	44	2.49E+04
13	3.31E+00	-0.575742462	13	1.99E+02
9	1.85E+01	-0.063879895	9	1.59E+00
2	1.08E-01	-1	2	1.68E+01
5	1.03E+00	-0.216653514	5	2.01E+00
27	8.97E-05	2	27	8.88E-11
4	1.12E-03	1	4	1.09E-02
7	1.25E-02	-0.011983634	7	9.79E-01
18	4.14E-05	0.464851382	18	1.03E-02
14	5.75E-03	1	14	1.47E-05
20	5.86E+04	-0.572788592	20	2.79E+03
9	1.11E+00	0.771789032	9	7.31E-03
9	7.77E+00	0.284494583	9	1.69E-01
29	1.35E-03	0.050753186	29	1.79E+00
13	1.37E+00	-0.101176127	13	3.34E+00
5	1.93E+00	-0.108820554	5	1.27E+00
6	3.72E+01	2	6	3.68E-04
3	8.06E-01	0.573189357	3	1.11E-01
4	4.77E-01	0.374763372	4	1.83E-01
9	1.48E+00	0.437032799	9	6.32E-02
3	1.87E+00	0.104299133	3	4.97E-01
16	7.36E+02	-0.485766338	16	2.50E+02
14	5.16E-01	0.594448429	14	6.50E-03
4	5.22E+00	0.030722706	4	6.63E-01
8	4.93E+00	-0.12827824	8	2.10E+00
3	1.16E+00	-0.285965938	3	1.73E+00
11	2.66E+01	-0.362230538	11	1.86E+01
3	6.35E-01	-0.025569241	3	7.52E-01
10	5.03E+02	-0.494167736	10	3.58E+01
9	3.58E+01	-0.233189863	9	4.75E+00

13	5.43E+02	0.731842233	13	2.56E-03
6	3.13E-01	-0.239233924	6	2.71E+00
11	1.77E-01	0.867542766	11	1.77E-03
2	2.80E-01	-0.031961346	2	7.03E-01
1	3.95E-02	-0.28943181	1	1.11E+00
6	8.92E-02	0.726824517	6	2.58E-02
5	1.11E-02	-0.115993936	5	1.31E+00
12	4.51E+03	-0.323131371	12	1.77E+01
5	1.03E-01	0.073885139	5	5.81E-01
12	6.38E+00	0.15432063	12	3.75E-01
14	3.11E+02	-0.224031121	14	1.17E+01
5	7.97E+00	-0.505235754	5	6.91E+00
8	9.08E+01	-0.61862426	8	3.79E+01
6	9.08E-01	-0.545849296	6	1.19E+01
6	6.91E-01	-0.158684152	6	1.84E+00
5	6.57E-01	-0.354220345	5	3.63E+00
8	2.23E+00	-0.184109115	8	2.92E+00
8	6.38E+00	-0.310925096	8	6.17E+00
5	5.97E-01	0.201195349	5	3.37E-01
5	1.55E+00	-0.577639083	5	9.42E+00
2	6.02E-01	0.061894195	2	5.48E-01
8	1.50E+00	0.585935126	8	3.10E-02
5	7.11E-01	0.010825032	5	7.61E-01
6	2.29E+00	2	6	4.79E-04
3	1.78E+00	1	3	1.96E-02
7	1.50E+01	-0.326502528	7	5.28E+00
5	2.54E+00	0.324737768	5	1.99E-01
6	2.20E+02	-0.198287687	6	2.22E+00
2	5.95E+00	-1	2	1.13E+01
10	3.88E+01	2	10	4.01E-07
26	2.35E+08	-0.326827799	26	5.83E+02
13	2.04E+01	-0.163522767	13	5.72E+00
15	2.58E+01	0.126330139	15	4.73E-01
5	5.13E-01	-0.517919751	5	7.30E+00
5	3.04E+00	-0.675371223	5	1.43E+01
4	6.67E-01	-0.377418623	4	3.04E+00
2	1.86E+00	-0.502592397	2	2.45E+00
8	4.90E+00	-0.265263762	8	4.71E+00
5	1.64E-01	-0.111719785	5	1.29E+00
5	6.42E-01	0.09539492	5	5.30E-01
7	5.23E+00	-0.022926662	7	1.04E+00
4	4.60E-01	0.060058759	4	5.94E-01
4	6.54E-01	-0.312223562	4	2.38E+00
5	1.89E-01	-0.338866219	5	3.40E+00
5	1.47E+00	-0.260382475	5	2.43E+00
2	5.71E-01	-0.417423231	2	1.95E+00
2	3.67E+00	-1	2	1.63E+01

7	9.21E-02	-0.548419371	7	1.73E+01
6	6.56E-02	-0.083587261	6	1.28E+00
3	1.00E-02	-0.497901379	3	3.39E+00
14	9.18E-06	0.678746363	14	3.00E-03
6	1.66E+00	-0.40300185	6	5.96E+00
5	2.42E+00	0.267287445	5	2.54E-01
9	9.39E-01	0.558138166	9	2.90E-02
4	9.66E-01	-0.295878846	4	2.24E+00
6	1.51E-02	0.677994159	6	3.26E-02
7	9.39E-03	-0.397273191	7	7.72E+00
6	5.42E+00	0.516055419	6	7.12E-02
6	2.89E+00	0.126082803	6	4.66E-01
3	2.80E+00	-0.032405394	3	7.68E-01
24	2.75E-02	0.235765215	24	9.75E-02
17	5.50E+07	-0.804404174	17	1.08E+04
2	7.48E-01	-0.074172274	2	7.86E-01
9	1.47E+02	-0.209365803	9	4.07E+00
4	7.97E-01	0.060024858	4	5.94E-01
7	1.29E+01	0.890916196	7	7.74E-03
28	9.75E-02	1	28	8.14E-11
7	5.76E-01	0.793496551	7	1.30E-02
8	4.19E+00	-0.284777762	8	5.29E+00
16	3.81E-03	1	16	7.59E-07
10	2.20E-02	-0.646524934	10	1.04E+02
10	4.45E-01	0.568683749	10	2.13E-02
6	4.28E+00	-0.876712275	6	5.84E+01
7	1.60E+03	-0.4815112	7	1.21E+01
2	2.32E+00	0.476533566	2	1.83E-01
5	1.75E+01	2	5	4.08E-04
7	1.10E+03	1	7	4.04E-03
5	2.96E+01	3	5	1.65E-05
4	1.55E+00	1	4	1.41E-02
5	2.13E+02	-0.309449609	5	2.99E+00
12	6.63E+03	-0.893022477	12	1.76E+03
6	1.32E-02	0.607105281	6	4.59E-02
6	1.69E-01	-0.134044983	6	1.63E+00
8	2.27E+00	0.093942079	8	5.65E-01
15	1.59E+00	0.764188428	15	9.74E-04
5	1.54E-01	0.487843851	5	9.90E-02
7	3.18E+00	0.114461465	7	4.97E-01
4	1.43E-02	-0.627850284	4	7.75E+00
13	1.91E-02	-0.275132218	13	1.50E+01
5	1.62E-02	0.04628022	5	6.54E-01
10	5.46E-05	0.274446478	10	1.67E-01
6	2.46E-02	0.780054988	6	2.00E-02
6	9.99E-04	-0.174708633	6	1.98E+00
13	3.20E-05	0.21839765	13	2.13E-01

18	4.54E-12	1	18	5.21E-06
3	4.17E-01	-0.525305326	3	3.70E+00
6	1.40E+00	-0.69666149	6	2.45E+01
6	9.26E+00	-0.387553246	6	5.53E+00
16	4.94E+00	-0.540138403	16	4.36E+02
8	5.82E-01	1	8	2.19E-03
13	2.59E-05	0.371025865	13	5.73E-02
20	3.16E-04	0.800408133	20	1.11E-04
4	6.89E-03	-0.012755427	4	7.79E-01
6	6.21E-01	0.07758299	6	5.89E-01
21	1.33E-04	-0.055504583	21	5.04E+00
5	7.55E-04	0.107273854	5	5.04E-01
15	1.72E-03	0.378345656	15	4.11E-02
6	2.67E-05	0.413951545	6	1.16E-01
12	2.68E-01	-0.463426108	12	5.49E+01
1	8.58E-01	0.669713606	1	1.47E-01
6	3.27E-01	0.198647783	6	3.28E-01
20	1.86E+05	-0.407700685	20	3.60E+02
7	7.16E+01	0.50553707	7	6.11E-02
6	4.42E+00	-0.057943448	6	1.13E+00
9	1.21E+02	-0.916893004	9	3.89E+02
8	4.69E+01	-0.540403569	8	2.39E+01
9	7.31E+01	-0.27498421	9	6.21E+00
8	1.05E+01	-0.796873122	8	1.09E+02
10	2.56E+05	-0.470329713	10	3.03E+01
1	2.59E+00	-0.784098763	1	3.14E+00
12	3.15E+02	-0.284985429	12	1.30E+01
7	1.29E+01	-0.378598587	7	6.98E+00
4	5.66E-01	-0.545448416	4	5.69E+00
5	3.12E+03	0.03888192	5	6.75E-01
8	4.00E+04	0.098250109	8	5.51E-01
21	1.20E+05	-0.569341049	21	3.91E+03
9	2.72E+01	-0.069353073	9	1.65E+00
3	3.43E-01	0	3	6.93E-01
6	3.63E+00	-0.297233137	6	3.58E+00
7	6.23E+00	-0.068936458	7	1.33E+00
6	1.61E+01	-0.270175727	6	3.14E+00
7	6.54E+00	-0.649130511	7	2.98E+01
1	2.28E+00	-0.829894986	1	3.46E+00
15	3.50E+00	-0.573534931	15	4.19E+02
11	5.06E+01	-0.563298929	11	8.44E+01
6	2.44E+00	-0.192171791	6	2.16E+00
6	9.11E+00	-0.454328152	6	7.63E+00
4	8.93E+00	-0.282514813	4	2.13E+00
9	8.30E+00	-0.629889918	9	6.12E+01
4	2.26E-01	-0.678374149	4	9.35E+00
9	1.79E-01	0.611847755	9	2.05E-02

34	8.38E-01	3	34	5.70E-29
6	5.81E-01	0.052755319	6	6.63E-01
7	1.60E-02	0.301808297	7	1.82E-01
8	6.70E-03	0.35944758	8	1.18E-01
42	2.23E+05	-0.340411181	42	4.25E+04
2	5.58E-01	-0.246426018	2	1.24E+00
3	9.82E-01	-0.200003175	3	1.31E+00
3	4.30E-01	-0.030192974	3	7.63E-01
37	4.68E-05	-0.055901978	37	2.53E+01
11	5.55E-02	2	11	8.30E-06
13	2.50E-03	0.845954083	13	9.58E-04
6	4.48E-01	-0.116056007	6	1.50E+00
7	5.39E+00	-1	7	3.16E+02
14	7.01E-01	-0.061944501	14	2.65E+00
15	1.41E+02	0.349801654	15	5.42E-02
17	2.55E+03	0.135663296	17	4.29E-01
14	4.15E-02	0.349997797	14	6.09E-02
4	1.51E-01	0.770013281	4	4.19E-02
4	1.28E-02	-0.047644787	4	8.88E-01
3	9.00E-02	-0.267253018	3	1.63E+00
23	2.03E+01	0.261679485	23	7.18E-02
8	1.07E+01	-1	8	6.42E+02
3	4.87E-01	0.167200218	3	4.06E-01
2	6.11E-01	-0.060530703	2	7.58E-01
29	3.74E-03	0.008467127	29	3.72E+00
5	6.15E-02	2	5	1.01E-03
10	1.19E+03	-0.164430522	10	3.57E+00
7	6.25E+03	-0.945077061	7	1.45E+02
4	1.04E+02	-2	4	3.05E+02
21	6.75E-04	-0.613201155	21	6.90E+03
11	7.75E+04	-1	11	2.39E+03
5	3.69E+01	0.519067382	5	8.67E-02
8	7.32E+00	-0.15381954	8	2.44E+00
21	1.85E-05	-0.873113138	21	2.00E+05
3	5.70E-02	0.166839919	3	4.07E-01
7	3.89E-02	-0.375445039	7	6.86E+00
1	1.51E-02	-0.58482535	1	2.06E+00
3	4.30E+01	-0.282536363	3	1.71E+00
15	3.70E-01	-0.517567864	15	2.44E+02
4	2.04E+00	-0.387281253	4	3.16E+00
43	9.84E+01	-0.594330391	43	3.04E+07
16	2.66E+00	1	16	5.29E-05
4	6.78E-02	2	4	7.52E-04
11	3.01E-04	1	11	2.89E-04
15	8.17E-03	-0.042050865	15	2.42E+00
9	1.00E+01	0.112048578	9	5.13E-01
7	2.33E+01	-1	7	4.71E+02

3	7.18E+01	-1	3	7.21E+01
52	2.56E+11	-0.578232283	52	6.44E+08
2	5.56E-01	-0.129946452	2	9.11E-01
4	8.60E+00	-0.684628018	4	9.58E+00
13	2.77E+00	-0.609132103	13	2.66E+02
2	1.97E+00	0.733766331	2	9.24E-02
5	2.19E+00	-0.315388869	5	3.07E+00
10	1.30E+04	1	10	7.91E-04
18	1.05E+06	-0.12668836	18	8.34E+00
17	1.56E+02	-0.479068069	17	3.24E+02
4	5.70E-01	-0.169977184	4	1.40E+00
36	3.08E-05	0.344035808	36	4.99E-03
10	1.78E-02	-0.333754286	10	1.17E+01
8	3.62E-02	-0.948284433	8	2.65E+02
43	2.18E+10	-0.415042429	43	3.51E+05
11	1.22E+01	-0.920743991	11	1.25E+03
3	5.93E-01	0	3	6.93E-01
7	1.10E+01	-0.161150764	7	2.18E+00
3	5.55E-01	-0.834796533	3	9.94E+00
8	1.67E-01	-0.341967461	8	7.41E+00
6	2.02E+02	-1	6	7.10E+02
12	8.75E+03	-0.291082948	12	1.37E+01
3	2.55E-01	-0.3678423	3	2.24E+00
14	7.42E+01	-1	14	2.17E+05
7	7.30E-01	-0.166843529	7	2.24E+00
29	3.12E+08	0.542850032	29	3.62E-04
1	5.66E-01	-0.186292129	1	8.91E-01
10	6.26E-01	0.624866536	10	1.44E-02
2	9.31E-01	0.841518164	2	6.95E-02
11	4.06E-02	0.555562454	11	1.85E-02
8	7.54E-01	0.427467939	8	7.90E-02
23	1.70E-02	1	23	9.47E-07
10	1.29E+00	0.355985916	10	9.42E-02
68	4.26E-03	0.215158603	68	1.71E-02
4	5.20E-01	0.424265751	4	1.52E-01
4	2.00E-01	0.013802392	4	7.06E-01
9	3.69E+04	-0.663544249	9	7.60E+01
55	4.48E-04	-0.534613694	55	5.18E+08
12	1.56E-02	1	12	2.76E-05
6	3.08E-01	1	6	1.50E-03
5	1.45E-02	2	5	7.41E-05
16	3.95E-01	0.361657203	16	4.26E-02
6	1.63E+02	-0.859330144	6	5.37E+01
20	8.79E+04	-0.310323705	20	1.08E+02
4	3.96E+02	0.165123443	4	4.01E-01
2	8.19E-01	-0.035784665	2	7.10E-01
5	6.05E-01	-0.813691961	5	2.59E+01

9	1.27E+00	-0.157528825	9	2.91E+00
23	2.24E+02	-0.53133063	23	4.89E+03
17	3.87E-01	0.337470331	17	4.87E-02
3	9.29E-01	0.372317253	3	2.11E-01
25	1.17E+06	0.658526818	25	1.54E-04
2	5.20E-01	-0.06544505	2	7.68E-01
3	4.81E-01	-0.064247937	3	8.50E-01
22	6.60E+02	-0.459142128	22	1.29E+03
12	1.72E+05	-0.45611296	12	5.18E+01
7	3.41E+00	-0.547523194	7	1.73E+01
7	1.46E+01	0.511940165	7	5.90E-02
5	7.49E-02	-0.287230606	5	2.72E+00
7	8.30E-04	0.954657868	7	5.50E-03
1	1.31E-01	0.904268968	1	8.96E-02
10	6.89E-03	0.322156631	10	1.19E-01
5	6.74E-01	-0.258726533	5	2.41E+00
14	4.20E+01	0.331789507	14	7.20E-02
4	1.85E+00	-0.136961954	4	1.24E+00
10	1.51E-01	0.421170011	10	5.98E-02
12	3.32E-05	-0.399143007	12	3.27E+01
11	6.43E-01	-0.084667617	11	2.30E+00
6	3.44E+01	0.466456912	6	9.04E-02
7	4.17E+00	0.500834066	7	6.26E-02
8	2.99E-02	-0.122830464	8	2.03E+00
4	2.02E+00	-1	4	1.04E+02
16	4.98E+02	-1	16	1.93E+05
14	3.66E-04	0.000351541	14	1.50E+00
2	1.05E-01	1	2	3.52E-02
5	1.04E+00	-1	5	1.07E+02
2	3.40E+00	-2	2	5.22E+01
5	2.63E+00	-0.513030892	5	7.15E+00
8	2.44E+02	-0.060510889	8	1.41E+00
2	8.36E+00	-0.130290145	2	9.12E-01
2	7.75E+00	0.376666102	2	2.38E-01
7	1.69E+02	-0.041586779	7	1.15E+00
2	3.48E-01	-1	2	1.06E+01
6	2.66E+01	-0.635309419	6	1.83E+01
6	1.13E+00	-0.713258805	6	2.66E+01
3	9.13E-01	-0.170741584	3	1.19E+00
6	1.38E+00	0.124071201	6	4.70E-01
9	3.92E-01	0.19387798	9	3.03E-01
8	5.08E+00	-0.599213916	8	3.38E+01
4	1.12E-01	0.574619638	4	8.70E-02
2	1.54E-02	-0.074221528	2	7.86E-01
11	7.07E-07	0.568080069	11	1.69E-02
7	4.44E+00	-0.761662171	7	5.44E+01
5	6.98E+00	-0.6493137	5	1.28E+01

14	5.06E+00	-0.440251374	14	8.45E+01
4	6.70E-01	-0.098759439	4	1.07E+00
5	2.11E-01	-1	5	1.11E+02
19	3.91E+00	-0.087667715	19	6.03E+00
19	1.24E+01	0.727102885	19	3.82E-04
4	1.83E-01	0.027850335	4	6.70E-01
17	3.33E-01	0.789228387	17	3.74E-04
51	1.86E-04	1	51	2.36E-12
21	6.89E+02	2	21	7.44E-12
3	4.69E+00	-2	3	9.36E+01
3	1.75E-01	-0.340811973	3	2.06E+00
8	7.33E-03	0.119655646	8	4.86E-01
21	9.86E-01	0.094978224	21	7.17E-01
9	3.07E+03	0.785577814	9	6.69E-03
8	2.86E+02	0.948575116	8	3.65E-03
8	1.69E+01	0.483661507	8	5.67E-02
18	1.20E+01	0.534020152	18	4.70E-03
7	4.95E-01	0.043120325	7	7.28E-01
14	5.64E-01	0.360604409	14	5.53E-02
3	8.15E-02	1	3	1.73E-02
8	5.66E+00	1	8	2.37E-03
6	9.68E-01	0.24129761	6	2.67E-01
6	1.08E+00	0.176410797	6	3.66E-01
5	1.84E+00	-0.248540901	5	2.31E+00
5	6.04E+01	-0.650968249	5	1.29E+01
6	8.16E-02	0.80968626	6	1.73E-02
6	1.57E-02	-0.306613343	6	3.75E+00
16	3.07E-01	0.300940573	16	7.93E-02
7	1.64E+00	-0.274940917	7	4.01E+00
17	1.01E+03	-0.099134132	17	5.40E+00
15	3.97E+01	0.392558261	15	3.58E-02
18	1.74E+02	-0.362669536	18	1.21E+02
18	1.55E+01	-0.282347228	18	4.86E+01
18	2.24E+05	-0.31600577	18	7.12E+01
2	5.05E-01	0.489631676	2	1.77E-01
14	5.74E+00	0.617765875	14	5.25E-03
11	3.55E-02	0.085257141	11	6.40E-01
6	9.31E-01	0.496793266	6	7.81E-02
26	1.24E-05	1	26	2.84E-07
5	1.43E-02	1	5	1.69E-03
4	2.32E+00	0.292183721	4	2.50E-01
12	1.52E+00	-0.721065617	12	4.39E+02
41	2.47E-05	-0.512224794	41	1.96E+06
6	2.75E-01	-0.090591	6	1.32E+00
20	1.45E-05	0.150652925	20	3.53E-01
40	9.55E-01	0.062150549	40	2.20E+00
4	4.19E+00	0.782058604	4	4.01E-02

5	1.25E-01	-0.543902341	5	8.16E+00
3	2.18E-01	0.303100969	3	2.63E-01
15	1.45E+00	0.080341778	15	7.39E-01
6	6.75E+00	-0.773705086	6	3.56E+01
7	1.15E-02	-0.20482962	7	2.75E+00
28	3.99E+01	-0.172764879	28	7.24E+01
1	5.36E-01	0.045108496	1	5.47E-01
8	1.47E+03	-0.622552297	8	3.88E+01
6	1.70E-03	0.118188455	6	4.84E-01
88	5.77E-21	0.107028351	88	1.39E+00
22	5.57E+01	-0.258345584	22	8.60E+01
11	5.96E-01	0.680464128	11	7.24E-03
3	2.09E+00	0.387217374	3	2.01E-01
15	1.08E+00	-0.117682568	15	5.04E+00
9	9.93E-01	0.744706223	9	8.70E-03
12	1.01E+00	0.035548081	12	9.79E-01
11	1.50E-03	-0.508809008	11	5.60E+01
7	4.64E-02	-0.569595792	7	1.94E+01
6	4.56E+00	0.09102478	6	5.52E-01
28	5.11E-06	0.586472009	28	2.18E-04
5	1.97E-02	0.450414094	5	1.16E-01
13	4.31E-06	0.429055231	13	3.47E-02
38	1.89E-11	0.554097401	38	3.75E-05
5	6.12E-04	0.622409353	5	5.57E-02
10	9.01E-05	0.969148537	10	1.30E-03
39	9.27E-03	0.080207127	39	1.41E+00
4	3.79E-01	0.02659749	4	6.73E-01
11	2.10E-02	0.26076682	11	1.71E-01
20	7.41E-02	0.418929879	20	1.26E-02
13	5.06E-03	0.912199431	13	5.42E-04
10	1.07E-01	0.396041905	10	7.12E-02
5	3.21E-01	-0.498264994	5	6.71E+00
10	3.05E-01	-0.046351184	10	1.57E+00
3	7.15E-01	0.163753017	3	4.11E-01
14	1.29E+02	-0.032869451	14	2.03E+00
1	6.00E-01	-0.03651559	1	6.50E-01
10	7.96E-01	-0.261928762	10	7.06E+00
4	4.67E-01	-0.460358819	4	4.14E+00
10	1.47E+00	-0.787658635	10	2.78E+02
6	3.04E+01	-0.752890901	6	3.22E+01
7	2.82E+01	-0.244643229	7	3.41E+00
2	6.11E+00	0.289414957	2	3.00E-01
6	8.78E+03	-1	6	2.64E+02
5	1.69E+02	-0.473426049	5	6.04E+00
14	3.96E+05	1	14	5.23E-05
1	5.57E-01	0.01977976	1	5.77E-01
5	1.07E+02	0.32856263	5	1.96E-01

32	5.80E+07	2	32	1.09E-17
18	5.23E+03	-0.653623697	18	3.26E+03
2	6.87E-01	-0.057296327	2	7.52E-01
6	3.39E-02	0.048256268	6	6.78E-01
7	7.55E-02	-0.227773511	7	3.11E+00
5	6.24E+00	0.503327856	5	9.27E-02
9	6.64E+02	-0.849179193	9	2.51E+02
15	1.13E+02	-0.851887208	15	6.23E+03
97	1.73E-13	-0.13409086	97	7.30E+05
10	6.02E+00	-0.694687	10	1.45E+02
6	2.09E+02	-0.244515218	6	2.78E+00
40	5.30E-08	0.047670092	40	3.08E+00
7	7.96E-04	-0.036545496	7	1.12E+00
9	2.37E-01	0.350507114	9	1.10E-01
11	2.49E+01	-0.478492233	11	4.46E+01
10	1.78E-01	0.576708096	10	2.02E-02
6	6.11E+00	-0.819127975	6	4.43E+01
8	1.04E+00	-0.08143326	8	1.59E+00
2	1.39E-01	0.224331204	2	3.56E-01
51	6.23E+08	-0.523852453	51	8.96E+07
13	9.76E+02	-0.80824461	13	1.48E+03
67	8.62E-09	0.103934064	67	1.21E+00
4	3.06E-02	-0.987867322	4	2.97E+01
6	3.62E-05	2	6	3.50E-04
2	1.43E-01	0.544521121	2	1.53E-01
10	5.25E-03	0.288108029	10	1.51E-01
3	6.19E-03	1	3	2.78E-02
10	5.98E-01	0.311014422	10	1.29E-01
9	1.91E+00	-0.164197387	9	3.04E+00
5	5.15E-01	-0.113569845	5	1.30E+00
6	7.37E-01	-0.448316489	6	7.42E+00
11	2.31E+00	-0.193103298	11	5.20E+00
28	6.93E+01	-0.132506582	28	3.69E+01
8	4.41E+01	-0.137451397	8	2.22E+00
5	2.68E-01	2	5	6.07E-04
5	1.49E-02	-0.690550381	5	1.53E+01
5	3.09E-02	-0.763040655	5	2.08E+01
5	4.91E-02	0.021946739	5	7.26E-01
1	1.36E-01	-0.172563598	1	8.66E-01
8	7.82E-01	0.354323968	8	1.22E-01
34	1.97E+08	0.296930723	34	1.61E-02
7	1.04E+01	-0.61283329	7	2.45E+01
17	1.05E-02	0.16525452	17	3.12E-01
8	1.17E+01	2	8	4.55E-07
15	1.68E-05	0.97460281	15	1.27E-04
12	6.80E-03	-0.084873908	12	2.59E+00
2	1.54E-01	0.387796364	2	2.31E-01

3	3.38E-01	-0.026130289	3	7.53E-01
6	1.40E-03	-0.694593125	6	2.43E+01
2	5.34E-01	-0.067819321	2	7.73E-01
7	2.33E-01	-0.377637705	7	6.95E+00
102	4.46E+10	-0.10856547	102	3.49E+05
9	5.60E-02	0.436305387	9	6.35E-02
49	2.64E+07	-0.686230961	49	4.25E+09
7	1.10E-01	0.598280903	7	3.72E-02
8	3.33E+00	0.913779367	8	4.48E-03
4	2.27E-02	0.184197597	4	3.74E-01
8	1.85E-03	0.52982123	8	4.32E-02
15	3.65E+04	0.732897346	15	1.32E-03
39	2.22E+05	-0.606168927	39	8.27E+06
6	1.08E+00	-0.163837228	6	1.88E+00
8	6.73E+03	-0.940605957	8	2.54E+02
14	6.05E+04	-0.220658674	14	1.13E+01
8	2.26E+00	0.180344915	8	3.40E-01
9	4.40E-02	0.499781199	9	4.22E-02
11	1.08E+00	-0.512884016	11	5.78E+01
8	3.56E-02	1	8	1.18E-03
14	2.26E+02	0.885469711	14	4.53E-04
21	1.87E+00	0.820499041	21	5.96E-05
13	1.23E+00	-0.35589365	13	3.00E+01
2	3.51E+00	-2	2	1.45E+02
5	1.70E-03	-1	5	3.38E+02
2	6.61E-01	-0.907165641	2	7.14E+00
27	6.66E-10	0.125221217	27	4.92E-01
6	2.56E-01	-0.643592377	6	1.90E+01
5	6.24E-01	-0.496485754	5	6.66E+00
10	6.65E-01	0.10741616	10	5.35E-01
11	4.12E+00	-0.019657121	11	1.41E+00
9	1.31E+00	0.305713056	9	1.47E-01
9	1.63E+00	0.753016909	9	8.25E-03
6	1.06E-02	0.239380064	6	2.70E-01
30	4.96E-02	-0.061307352	30	1.38E+01
8	2.02E+03	-1	8	2.15E+03
1	5.48E-01	0	1	6.02E-01
3	6.87E-02	-0.055923824	3	8.28E-01
21	5.41E+02	-0.626461143	21	8.19E+03
6	4.88E-02	-0.435174308	6	6.96E+00
8	9.34E-02	-0.39810651	8	1.03E+01
14	4.57E+01	0.176094239	14	2.99E-01
15	9.86E+00	2	15	4.83E-07
4	1.01E+00	0.36489735	4	1.90E-01
9	7.19E+01	3	9	1.82E-08
18	1.49E+03	3	18	5.04E-16
6	1.23E+00	0.296551129	6	2.05E-01

3	6.56E-02	-0.141799924	3	1.09E+00
5	1.35E-01	0.095043422	5	5.31E-01
12	4.28E-01	-0.402565224	12	3.36E+01
6	1.15E+00	1	6	6.03E-03
8	1.14E-04	2	8	1.88E-06
18	6.83E-03	1	18	3.49E-06
14	2.92E+00	0.381265333	14	4.58E-02
13	4.35E-01	0.08584203	13	6.68E-01
26	4.18E-01	-0.047704831	26	7.36E+00
12	2.32E-01	-0.583544245	12	1.45E+02
7	4.15E-01	1	7	1.37E-03
7	7.85E-03	1	7	1.45E-03
13	7.05E-02	1	13	2.55E-05
9	8.23E-02	0.116594368	9	4.98E-01
1	4.67E-01	-0.311121856	1	1.16E+00
11	1.68E+00	-0.439786009	11	3.33E+01
6	1.77E-06	2	6	4.17E-04
6	9.92E-07	-0.423324245	6	6.57E+00
6	2.05E-04	2	6	4.31E-05
16	1.40E-05	2	16	2.05E-08
9	1.87E-03	0.670185215	9	1.41E-02
4	9.19E-02	0.199775577	4	3.53E-01
6	6.69E-03	0.383321917	6	1.35E-01
4	2.36E-01	0.056231741	4	6.02E-01
1	5.37E-01	0.024267776	1	5.72E-01
8	5.82E+02	-1	8	1.98E+03
8	2.32E+01	-1	8	4.05E+02
4	1.22E-01	-0.115807066	4	1.15E+00
41	2.74E-08	0.395927316	41	8.11E-04
14	1.46E-03	0.364768325	14	5.32E-02
64	3.13E-16	0.566965724	64	5.93E-08
4	1.30E-02	-0.054079613	4	9.09E-01
10	3.60E-01	-0.732774042	10	1.89E+02
11	7.40E+01	2	11	3.87E-06
11	2.46E-04	0.608935845	11	1.24E-02
14	1.96E+00	0.079434726	14	7.25E-01
11	6.61E+00	0.567598763	11	1.69E-02
15	1.94E+01	-0.386524381	15	6.83E+01
11	1.42E+01	-0.506308777	11	5.50E+01
1	4.69E+00	-0.643762214	1	2.34E+00
14	3.73E+02	-0.669461567	14	6.89E+02
11	1.55E+03	-1	11	2.92E+03
3	8.03E+00	-0.030305664	3	7.63E-01
11	6.76E+03	2	11	6.18E-06
5	8.41E+01	2	5	2.73E-04
4	1.64E+01	0.055773578	4	6.04E-01
15	2.34E+05	0.171070526	15	3.06E-01

31	3.29E+03	-0.286630322	31	9.60E+02
16	9.55E+01	-0.389814689	16	9.35E+01
18	2.33E+06	-0.870866754	18	3.81E+04
26	3.93E+06	-0.348539821	26	8.19E+02
24	1.02E+06	0.147741228	24	3.52E-01
28	9.02E-05	0.370872177	28	8.06E-03
8	1.77E+00	-0.20359604	8	3.27E+00
73	3.82E-14	0.612535736	73	1.08E-09
5	1.81E+03	-2	5	5.22E+02
7	6.38E+01	0.655631455	7	2.73E-02
6	5.81E+00	0.461738465	6	9.25E-02
5	9.91E-01	0.422201477	5	1.31E-01
3	4.37E-01	-0.271928416	3	1.65E+00
21	4.04E+08	-0.688863774	21	1.84E+04
90	1.12E+05	0.059349772	90	1.58E+01
17	3.34E+00	-0.031888703	17	2.61E+00
7	1.68E+02	-0.602861079	7	2.32E+01
5	1.32E+01	-0.524677776	5	7.51E+00
7	5.90E+00	-0.339325458	7	5.66E+00
31	3.50E-01	1	31	4.46E-09
20	3.65E-01	1	20	3.31E-08
42	3.09E+02	-0.033888708	42	2.45E+01
17	6.44E+01	-0.148649811	17	9.20E+00
32	1.12E+07	-0.149468607	32	8.98E+01
18	1.33E+10	0.170358774	18	2.89E-01
8	1.10E+00	-0.807581964	8	1.16E+02
4	1.31E+00	0.064695723	4	5.84E-01
11	2.59E-01	-0.109078683	11	2.76E+00
11	8.80E+00	-1	11	6.02E+03
11	3.48E+01	1	11	6.23E-04
7	2.02E+00	0.44798699	7	8.32E-02
8	1.51E+01	0.897842067	8	4.92E-03
20	4.37E-07	0.466423327	20	7.01E-03
2	2.82E-02	0.958058259	2	5.10E-02
16	1.72E+00	-0.661172492	16	1.50E+03
16	3.69E-01	-0.001042809	16	1.75E+00
7	5.45E-01	-0.144075326	7	1.99E+00
6	1.08E-02	0	6	8.55E-01
9	1.99E-01	0.324795349	9	1.30E-01
1	1.66E-02	2	1	2.13E-02
17	6.41E-04	2	17	4.85E-10
21	2.44E+04	-0.451201381	21	8.46E+02
1	8.70E-01	-0.02121048	1	6.29E-01
20	1.42E+01	-0.204217435	20	2.88E+01
11	2.35E+00	-0.144824021	11	3.62E+00
7	2.08E+01	0.221384569	7	2.80E-01
10	5.74E+01	-0.596115491	10	7.29E+01

6	6.39E+01	0.096304351	6	5.38E-01
7	1.36E+05	-0.775885484	7	5.87E+01
7	1.01E+02	-1	7	5.92E+02
17	1.34E+00	-0.62462467	17	1.56E+03
3	6.37E-01	-0.066895104	3	8.58E-01
21	1.86E+06	0.469926158	21	5.58E-03
17	1.45E+00	-0.138286964	17	8.23E+00
3	4.29E-01	-0.151276888	3	1.12E+00
7	1.35E+01	-0.121636163	7	1.76E+00
12	7.76E+01	-0.318786282	12	1.71E+01
31	4.16E+02	-0.399490974	31	7.63E+03
8	4.31E+00	-0.591046063	8	3.22E+01
9	1.31E+01	-0.116120455	9	2.23E+00
43	7.44E-02	0.589118803	43	4.97E-06
7	5.51E-02	0.731392192	7	1.82E-02
38	1.91E+00	0.50184908	38	1.20E-04
6	3.30E+03	0.169100703	6	3.79E-01
5	1.74E+00	-0.380758867	5	4.06E+00
6	2.64E+00	-0.550401824	6	1.21E+01
6	6.11E-01	-0.251193127	6	2.87E+00
10	1.95E+00	-0.022898481	10	1.33E+00
25	2.62E-01	0.318427379	25	2.64E-02
3	7.91E-03	0.238296289	3	3.24E-01
4	2.80E-01	2	4	1.96E-04
44	4.37E+01	-0.26599618	44	1.07E+04
3	7.26E-01	-0.095825889	3	9.41E-01
24	5.91E-09	0.885527377	24	7.51E-06
9	7.12E-08	2	9	1.78E-06
8	3.38E-05	0.227632986	8	2.57E-01
4	1.65E-01	0.441956549	4	1.43E-01
2	2.40E-01	0.235650607	2	3.46E-01
11	1.01E-01	0.026728356	11	9.94E-01
5	9.76E-02	-0.626820344	5	1.16E+01
8	1.54E-04	1	8	2.71E-04
10	1.39E-04	2	10	7.31E-06
15	1.23E+00	0.034312616	15	1.15E+00
6	6.91E-01	0	6	8.55E-01
9	3.71E-01	-0.09013201	9	1.89E+00
6	1.10E+01	-0.335318356	6	4.30E+00
55	1.26E+20	-0.197041516	55	1.30E+04
24	4.50E-01	-0.036697729	24	5.17E+00
3	1.18E+00	0.736359727	3	6.61E-02
9	5.17E-01	2	9	4.12E-05
5	6.56E-01	0.001718845	5	7.91E-01
13	1.43E-01	-0.00384417	13	1.45E+00
11	3.87E-01	-0.021366914	11	1.43E+00
43	4.51E+03	0.456586727	43	1.34E-04

4	2.07E+00	0.005243352	4	7.29E-01
4	3.54E-01	-0.131965235	4	1.22E+00
5	3.51E-01	0	5	7.97E-01
27	1.99E+00	0.060347824	27	1.41E+00
11	1.13E-01	-0.061640405	11	1.93E+00
5	6.48E-01	-0.104890938	5	1.25E+00
9	1.30E+01	-0.252956703	9	5.39E+00
6	2.93E+00	-0.32647517	6	4.12E+00
29	1.22E+02	4.96E-06	29	4.31E+00
6	5.09E+02	0.087717125	6	5.61E-01
42	2.44E+01	-0.364252915	42	7.60E+04
16	1.14E+04	-0.527856075	16	3.84E+02
5	3.50E+00	-0.448830079	5	5.43E+00
12	7.14E+03	-0.000396296	12	1.31E+00
14	1.52E+05	-0.550288838	14	2.31E+02
18	1.16E+01	-0.143826427	18	1.01E+01
18	6.40E-01	-0.136240442	18	9.30E+00
6	9.95E-01	0.008743364	6	8.20E-01
20	1.20E+00	0.094339108	20	7.10E-01
6	9.73E-01	-0.041111033	6	1.04E+00
24	7.63E+01	-0.037913552	24	5.27E+00
6	5.51E-01	0	6	8.55E-01
2	5.47E-01	0.018704061	2	6.15E-01
59	2.91E+00	0.356577219	59	2.26E-04
17	4.50E+02	0.285826085	17	8.50E-02
10	9.69E-01	0.060319763	10	7.43E-01
8	3.75E+00	0.024426037	8	8.52E-01
7	8.80E-01	-0.093563256	7	1.52E+00
1	5.84E-01	0.008423075	1	5.91E-01
14	8.42E-01	0.094919576	14	6.29E-01
49	8.55E+01	-0.053987495	49	8.02E+01
23	4.18E+08	-0.198910448	23	4.61E+01
8	7.65E-01	0	8	9.84E-01
6	4.47E-01	0.009316495	6	8.18E-01
1	5.15E-01	0.013081734	1	5.86E-01
10	2.09E-01	-0.021071094	10	1.31E+00
24	1.25E+01	-0.057216757	24	6.98E+00
6	3.87E-01	0.024709678	6	7.59E-01
4	1.98E+00	-0.045740544	4	8.82E-01
11	1.18E+01	-0.275353782	11	9.66E+00
3	5.93E-01	0	3	6.93E-01
3	5.93E-01	0	3	6.93E-01
1	5.36E-01	0	1	6.02E-01
3	5.14E-01	-0.079206284	3	8.92E-01
1	5.36E-01	0	1	6.02E-01
4	6.24E-01	0	4	7.43E-01
2	5.64E-01	0	2	6.46E-01

25	3.30E-04	0.517585055	25	1.30E-03
4	4.94E-02	1	4	1.13E-02
15	1.14E-01	0.18484698	15	2.68E-01
22	1.82E-05	0.362034948	22	1.99E-02
9	9.88E-02	-0.205704782	9	3.98E+00
5	3.17E-01	-0.207984114	5	1.94E+00
10	4.14E-01	-0.59506117	10	7.24E+01
4	3.28E-01	0	4	7.43E-01
4	6.54E-01	0.009198733	4	7.18E-01
2	9.24E-01	0.326004613	2	2.72E-01
6	6.91E-01	-0.041580278	6	1.05E+00
3	5.93E-01	0	3	6.93E-01
3	4.86E-01	-0.041094883	3	7.90E-01
5	6.57E-01	0	5	7.97E-01
7	7.41E-01	0	7	9.18E-01
5	4.49E-01	-0.759401839	5	2.05E+01
6	8.37E+00	-0.761340343	6	3.35E+01
3	1.30E+00	0.050290746	3	5.90E-01
3	7.83E-01	-0.080259957	3	8.95E-01
12	2.77E+02	2	12	1.17E-07
6	1.49E+00	-0.098246104	6	1.37E+00
6	3.41E+00	0.043169006	6	6.95E-01
10	5.07E-03	0.755681953	10	5.77E-03
3	2.02E+00	-0.098513701	3	9.49E-01
6	9.12E+00	-0.115635516	6	1.49E+00
10	1.35E+01	-0.484672415	10	3.35E+01
3	9.47E-01	-0.347340072	3	2.10E+00
5	8.31E-01	-0.275942741	5	2.59E+00
3	5.95E-01	-0.022183035	3	7.44E-01
8	2.23E+01	-0.607323474	8	3.55E+01
9	1.11E+00	-0.29683143	9	7.15E+00
6	3.71E-01	0.005904474	6	8.31E-01
3	2.68E-01	0.000203331	3	6.92E-01
4	5.99E-01	0.014754272	4	7.03E-01
6	2.92E-01	0.517419956	6	7.07E-02
8	2.87E+01	0.437476307	8	7.44E-02
6	3.18E+00	-0.098897679	6	1.38E+00
10	2.97E+03	-0.30360892	10	9.45E+00
2	5.72E-01	-0.035811471	2	7.10E-01
7	6.74E+00	-0.893606861	7	1.10E+02
10	1.06E+04	0.202888466	10	2.75E-01
7	5.96E+00	-0.285683854	7	4.24E+00
2	1.05E+00	-0.019316687	2	6.80E-01
7	3.86E-02	0.555369387	7	4.68E-02
6	1.77E-04	-0.361213293	6	4.87E+00
3	2.48E-01	0.239910834	3	3.22E-01
5	9.04E-08	0.767505523	5	3.00E-02

14	1.60E-04	0.012358383	14	1.34E+00
5	9.17E-01	0.224977739	5	3.05E-01
8	9.39E-03	-0.50835387	8	1.98E+01
6	1.46E+00	-0.531570135	6	1.11E+01
4	6.70E-01	-0.111689169	4	1.13E+00
2	5.71E-01	-0.259546013	2	1.28E+00
3	1.09E+00	0.208220328	3	3.56E-01
17	2.14E+01	0.878467774	17	1.43E-04
5	5.27E+00	-0.564614531	5	8.91E+00
6	1.83E+02	-0.031433673	6	9.95E-01
3	5.84E-01	0.014239709	3	6.62E-01
22	1.32E-15	1	22	2.22E-08
10	1.18E-02	0.061198123	10	7.39E-01
4	7.56E-04	1	4	1.12E-02
5	3.86E-01	0.678647372	5	4.38E-02
6	4.05E+00	0.071878163	6	6.05E-01
4	7.30E-01	0.354404637	4	1.98E-01
6	1.56E+00	0.06835471	6	6.15E-01
8	6.37E-01	-0.106025339	8	1.84E+00
3	1.66E+00	-0.856562532	3	1.07E+01
4	9.86E-01	-0.249797757	4	1.89E+00
5	6.45E-01	0.068048358	5	5.96E-01
8	1.51E+00	0.906733143	8	4.67E-03
15	2.14E+03	1	15	6.20E-05
20	1.22E+00	0.002693692	20	2.21E+00
7	1.05E+01	-0.212367114	7	2.86E+00
8	1.42E+04	-0.241768999	8	4.10E+00
5	1.79E+01	0.004415829	5	7.82E-01
3	1.25E+00	0	3	6.93E-01
1	4.46E+02	-0.598265899	1	2.12E+00
1	8.34E+00	0.206845344	1	3.89E-01
4	5.15E+03	-0.325509692	4	2.51E+00
4	8.34E+00	0.246258177	4	2.96E-01
1	7.92E-01	0.055520385	1	5.35E-01
14	2.66E+07	-1	14	5.72E+05
3	5.08E+00	0.557481828	3	1.17E-01
3	1.14E+00	-0.53988359	3	3.88E+00
7	4.15E-01	-0.049459262	7	1.20E+00
14	2.05E+02	-0.179040975	14	7.73E+00
7	1.67E+00	-0.086196542	7	1.46E+00
3	6.13E-01	-0.115134129	3	1.00E+00
28	1.54E+00	-0.150149619	28	4.96E+01
29	2.27E-09	0.307493852	29	2.12E-02
10	1.86E-01	0.060318908	10	7.43E-01
2	5.64E-01	-0.035718335	2	7.10E-01
2	5.64E-01	-0.208955284	2	1.12E+00
7	7.14E-01	-0.029706104	7	1.08E+00

70	1.56E+00	0.107312305	70	1.11E+00
71	1.42E-05	0.54898359	71	2.32E-08
10	7.61E-02	0.852744147	10	2.93E-03
5	2.39E+01	-0.423787453	5	4.88E+00
6	9.54E+01	-0.68994785	6	2.38E+01
6	1.73E+01	0.245285253	6	2.62E-01
32	1.42E+03	-0.304417158	32	1.68E+03
8	6.43E-01	0.736837786	8	1.27E-02
10	4.71E-01	0.006518577	10	1.08E+00
6	1.61E+01	0.36670031	6	1.46E-01
20	3.86E+01	-0.057950646	20	4.70E+00
6	3.85E-01	-0.0624163	6	1.16E+00
7	9.55E-01	-0.39954515	7	7.81E+00
20	9.52E-01	0.201629094	20	1.87E-01
14	5.69E+00	0.395758789	14	4.01E-02
19	3.73E+03	0.28697658	19	7.08E-02
1	1.25E+01	0.935720364	1	8.38E-02
7	3.31E+00	2	7	1.61E-05
28	2.31E+06	1	28	5.53E-11
5	7.79E+01	-0.539662515	5	8.01E+00
2	6.52E-01	-0.162414611	2	9.93E-01
1	5.46E-01	-0.02541541	1	6.35E-01
3	9.04E-01	-0.072630393	3	8.73E-01
10	1.72E+02	-0.261837304	10	7.06E+00
15	3.46E-02	0.023619858	15	1.28E+00
8	2.33E+01	-0.141510383	8	2.27E+00
13	1.07E+01	-0.364157592	13	3.22E+01
18	3.17E+02	-0.148639696	18	1.07E+01
23	4.53E+07	-0.092649985	23	1.04E+01
23	1.43E+00	-0.007822875	23	3.15E+00
7	1.01E+00	-0.747329348	7	5.04E+01
12	9.22E+01	-0.525449095	12	9.06E+01
5	3.07E-01	0.129571779	5	4.58E-01
4	1.79E+00	0.429731703	4	1.49E-01
13	7.88E+01	1	13	3.23E-05
11	4.81E+00	3	11	4.89E-11
10	1.79E+00	0.492773497	10	3.62E-02
9	1.25E+01	2	9	2.26E-05
13	5.25E+06	0.524973074	13	1.52E-02
3	7.32E-01	-0.540396424	3	3.89E+00
2	9.35E-01	-0.060585499	2	7.58E-01
17	4.17E+01	-0.215199374	17	1.89E+01
11	4.08E-01	-0.473276552	11	4.29E+01
24	1.24E+05	-0.276512798	24	1.71E+02
3	1.30E+01	-1	3	4.53E+01
16	2.34E+04	-0.189659738	16	1.20E+01
7	9.88E+00	2	7	2.79E-04

13	1.53E+08	1	13	6.98E-06
18	2.95E+00	-0.314239201	18	6.98E+01
16	3.83E+00	-0.003728149	16	1.79E+00
6	1.67E+00	0.087200708	6	5.62E-01
12	2.52E-01	0.375178495	12	6.31E-02
33	3.48E+04	-0.100943078	33	4.07E+01
10	2.95E+02	0.091150459	10	5.99E-01
40	6.99E+02	0.432440562	40	4.01E-04
17	2.79E+06	0.038331678	17	1.23E+00
3	7.90E-01	0.532413372	3	1.27E-01
4	6.51E-01	-0.06884867	4	9.61E-01
8	3.24E+00	0.382215849	8	1.03E-01
9	2.20E+00	-0.764045253	9	1.45E+02
34	3.20E-03	0.170378845	34	2.03E-01
18	4.49E-01	0.0196876	18	1.59E+00
2	6.22E-01	0.1473454	2	4.37E-01
11	4.90E+00	-0.456046756	11	3.77E+01
4	1.09E+00	-0.299886953	4	2.28E+00
6	2.08E+00	-0.014863718	6	9.19E-01
33	5.36E-03	-0.289966425	33	1.61E+03
4	8.33E-01	0.701998363	4	5.41E-02
5	3.91E+00	0.602749175	5	6.06E-02
4	1.01E+01	0.494655947	4	1.17E-01
1	4.88E-01	-0.204504642	1	9.26E-01
4	7.14E-01	0.036094169	4	6.50E-01
37	6.48E-01	0.347787484	37	4.09E-03
6	7.69E+00	-0.187263179	6	2.11E+00
7	9.93E-01	0.042660675	7	7.30E-01
59	3.33E+05	0.031872942	59	1.22E+01
10	9.12E+02	0.487652901	10	3.76E-02
26	2.88E+03	-0.128269856	26	2.60E+01
9	2.43E+01	-0.350163945	9	1.01E+01
2	1.18E+00	-0.358342481	2	1.67E+00
23	3.11E+04	-0.158023008	23	2.60E+01
8	7.77E+00	-0.542250076	8	2.42E+01
9	1.48E+00	-0.140992254	9	2.62E+00
7	6.69E-01	-0.033515091	7	1.10E+00
6	5.91E-01	0.013160786	6	8.03E-01
13	8.12E+00	-0.180332035	13	6.61E+00
2	3.97E-01	-0.021344195	2	6.83E-01
4	1.10E+02	0.225580419	4	3.20E-01
7	3.59E+00	0.398965657	7	1.08E-01
12	1.23E+00	-0.204646521	12	6.80E+00
19	1.20E-04	0.795648452	19	1.69E-04
83	1.31E+05	0.139090507	83	2.95E-01
9	7.71E+06	-0.059184115	9	1.55E+00
6	7.54E-01	-0.568832111	6	1.33E+01

3	3.34E-01	-0.230648631	3	1.45E+00
9	9.67E+02	-0.661882133	9	7.52E+01
8	3.89E+00	-0.028984446	8	1.17E+00
4	2.07E+01	-0.295308028	4	2.24E+00
2	6.53E-01	0	2	6.46E-01
58	4.64E+02	0.210752526	58	3.15E-02
10	4.32E-01	0.432615475	10	5.52E-02
8	1.27E+00	-0.043567637	8	1.27E+00
20	7.56E+00	0.082017297	20	8.27E-01
11	8.91E-01	0.04219723	11	8.85E-01
4	7.17E-01	-0.030859968	4	8.34E-01
20	5.88E+00	-0.203648109	20	2.86E+01
7	6.74E-01	-0.141850013	7	1.96E+00
21	6.06E+00	0.073838687	21	9.43E-01
17	1.23E+00	-0.037296691	17	2.77E+00
2	5.49E-01	-0.006895395	2	6.58E-01
16	1.15E+00	0.099563633	16	6.23E-01
12	8.80E-02	-0.192163795	12	6.15E+00
28	8.82E+00	0.042289517	28	1.98E+00
9	4.27E-01	0.123325204	9	4.77E-01
8	2.36E+00	-0.181064356	8	2.87E+00
19	1.91E+00	0.110295105	19	5.76E-01
22	3.87E-01	-0.059982744	22	5.91E+00
15	1.85E+00	-0.306521077	15	3.15E+01
6	9.69E-02	-2	6	2.47E+03
27	3.96E+07	-0.670458064	27	1.95E+05
26	3.24E+00	0.139952557	26	3.90E-01
5	5.77E-01	0.293140323	5	2.28E-01
3	1.64E-01	0.605146514	3	1.00E-01
3	1.93E+00	-0.487720168	3	3.28E+00
3	2.81E-01	-0.335552229	3	2.02E+00
8	1.62E+01	-0.202763459	8	3.26E+00
54	5.10E+17	3	54	6.88E-39
22	1.28E+04	-0.34782915	22	2.87E+02
63	2.86E+04	0.226539839	63	1.44E-02
35	3.32E+00	0.386230298	35	2.35E-03
7	9.80E-01	0.753161542	7	1.62E-02
11	8.91E-01	0	11	1.22E+00
20	2.58E+00	-0.037755013	20	3.65E+00
7	7.27E-01	-0.006034792	7	9.48E-01
18	1.87E+00	0.02566677	18	1.49E+00
8	1.24E+00	-0.014052345	8	1.07E+00
4	8.43E-01	-0.538304119	4	5.54E+00
5	7.84E-01	-0.131117599	5	1.40E+00
2	1.99E+00	0.211074049	2	3.69E-01
10	1.98E+05	-0.664561669	10	1.18E+02
9	1.61E+01	0.234539524	9	2.33E-01

11	2.13E+02	0.705053195	11	6.02E-03
5	2.38E+00	-0.561659069	5	8.80E+00
5	4.91E-01	-0.056521534	5	1.02E+00
5	7.34E-01	0	5	7.97E-01
7	2.96E+01	-0.492492298	7	1.29E+01
5	5.83E+01	-0.301405097	5	2.89E+00
7	2.88E+00	-0.00648343	7	9.50E-01
6	6.91E-01	-0.141065067	6	1.69E+00
6	3.56E+00	0	6	8.55E-01
12	7.30E+00	0.756417382	12	2.91E-03
11	9.65E+00	2	11	1.17E-06
4	8.90E-01	0.099648074	4	5.12E-01
14	6.58E-01	-0.050704255	14	2.39E+00
17	2.83E+00	0.572085634	17	3.88E-03
5	1.37E+00	1	5	4.99E-03
71	2.52E+01	-0.147006736	71	2.97E+04
22	2.66E+01	0.579247493	22	1.06E-03
12	1.89E+02	1	12	1.45E-05
5	1.22E+00	0.002348825	5	7.89E-01
7	1.95E-01	-0.228984089	7	3.13E+00
2	2.29E-01	0.038291013	2	5.83E-01
16	1.00E+03	0.039031295	16	1.16E+00
2	1.08E+00	-0.132646073	2	9.18E-01
4	6.24E+01	1	4	1.09E-02
14	4.02E-01	0.007195978	14	1.41E+00
13	2.45E+00	-0.165840238	13	5.84E+00
9	5.58E-01	-0.280930293	9	6.46E+00
11	2.61E+02	0.716473145	11	5.52E-03
6	1.22E+00	-0.407038489	6	6.08E+00
39	3.01E+02	0.368346235	39	2.03E-03
26	2.43E+02	0.348421681	26	1.49E-02
44	1.07E-02	-0.081138933	44	9.72E+01
1	5.30E-01	-0.017696984	1	6.25E-01
2	5.57E-01	-0.013994083	2	6.70E-01
2	5.64E-01	0	2	6.46E-01
3	5.93E-01	0	3	6.93E-01
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0.048501252	2	5.68E-01
2	5.64E-01	0.737233461	2	9.16E-02
3	5.93E-01	0.737233461	3	6.59E-02
4	6.24E-01	0.737233461	4	4.74E-02
2	5.64E-01	0.737233461	2	9.16E-02
2	4.33E-01	0.011213514	2	6.27E-01
1	4.13E-01	-0.015937023	1	6.22E-01
4	2.35E-04	1	4	1.38E-02
9	2.86E-02	0.272545612	9	1.82E-01
5	1.22E-03	1	5	2.57E-03

5	6.37E-05	2	5	1.44E-04
9	6.59E-02	0.266775933	9	1.89E-01
10	1.07E-01	0.332117301	10	1.11E-01
52	7.52E+01	0.131366283	52	4.35E-01
10	1.19E+00	0.001906896	10	1.12E+00
13	5.97E-01	0.088391395	13	6.53E-01
22	6.94E+00	-0.085459258	22	8.34E+00
20	1.24E+01	-0.039792583	20	3.75E+00
7	1.16E-01	0.190067471	7	3.31E-01
32	6.45E+02	-0.500350747	32	6.85E+04
15	7.45E+03	-0.845679872	15	5.87E+03
18	1.13E+06	-0.627545153	18	2.42E+03
18	4.58E+01	-0.119520889	18	7.69E+00
3	1.45E-01	-0.308813745	3	1.86E+00
14	6.98E+04	-0.680687229	14	7.63E+02
5	9.29E+00	0.554916904	5	7.43E-02
15	8.84E+02	0.743272831	15	1.19E-03
17	3.55E+02	-0.04773058	17	3.10E+00
6	6.91E-01	-0.132977507	6	1.62E+00
5	1.15E+00	-0.147652333	5	1.50E+00
10	2.05E+00	0.262280158	10	1.81E-01
9	5.66E-02	-0.116093723	9	2.23E+00
6	5.39E+00	-0.342297292	6	4.45E+00
2	9.76E-01	0.119769498	2	4.70E-01
9	2.51E+03	-0.42730026	9	1.66E+01
1	2.00E+00	-1	1	7.10E+00
5	4.00E+02	-0.852199036	5	3.05E+01
13	1.93E+02	-0.631419438	13	3.22E+02
2	3.88E-01	0.07247555	2	5.33E-01
3	8.55E-01	0.056067607	3	5.79E-01
2	6.64E-01	0.636177248	2	1.20E-01
1	5.52E-01	0.087026577	1	5.01E-01
6	8.38E+00	1	6	9.48E-04
10	3.63E+02	0.371342441	10	8.46E-02
10	4.14E+00	-0.603891334	10	7.70E+01
7	2.26E+00	0.749132915	7	1.66E-02
11	2.29E+03	2	11	1.45E-05
5	5.19E-01	0.001685914	5	7.92E-01
25	4.11E+03	1	25	7.95E-10
5	9.55E-01	0	5	7.97E-01
6	1.56E-01	-0.221199857	6	2.48E+00
8	7.23E-01	-0.003473496	8	1.00E+00
46	1.99E+00	0.066032754	46	2.47E+00
25	2.85E+04	-0.276215839	25	2.12E+02
7	7.76E-01	-0.003754078	7	9.36E-01
4	6.05E-03	-0.140538757	4	1.26E+00
10	3.37E-01	-0.195961544	10	4.45E+00

8	2.59E+00	-0.325743688	8	6.73E+00
25	1.59E-09	0.419955289	25	5.68E-03
12	1.34E+01	0.093009362	12	6.16E-01
14	1.22E+00	0.2416958	14	1.64E-01
36	1.53E+01	0.114383189	36	6.32E-01
15	4.51E+01	0.549784411	15	7.79E-03
3	8.20E-02	-0.802339315	3	8.97E+00
12	4.56E+03	-0.359132261	12	2.37E+01
14	7.79E-04	0.646312979	14	4.04E-03
3	6.33E-03	2	3	2.17E-03
38	5.05E-06	0.450532615	38	3.73E-04
16	6.33E+03	-0.606434199	16	8.59E+02
13	4.95E+01	0.015865437	13	1.22E+00
34	2.19E+00	-0.450588986	34	5.01E+04
18	4.02E-03	-0.528192133	18	7.87E+02
23	5.62E-01	-0.811077107	23	2.48E+05
3	3.97E-01	-0.021778737	3	7.43E-01
13	1.35E+06	-1	13	2.11E+05
13	7.11E-01	-0.120998309	13	3.97E+00
14	1.27E+01	0.352828959	14	5.94E-02
23	2.24E-02	0.1859596	23	2.08E-01
2	2.39E-02	-0.78819973	2	5.21E+00
7	1.79E+00	0.108235037	7	5.14E-01
2	1.93E-01	-0.009589209	2	6.62E-01
18	7.91E-01	0.026931403	18	1.47E+00
24	1.73E+00	0	24	3.03E+00
3	7.16E-01	0.082335203	3	5.33E-01
4	2.99E-01	0.210582459	4	3.39E-01
18	1.41E+01	-0.463003513	18	3.76E+02
12	6.10E+03	2	12	1.19E-08
21	2.44E+11	2	21	1.14E-10
22	5.73E+04	0.762074626	22	9.02E-05
24	7.59E+05	0.019219897	24	2.29E+00
11	8.14E-01	0.103587152	11	5.57E-01
8	2.53E-01	-0.000684023	8	9.88E-01
7	8.66E-01	0.035195813	7	7.60E-01
6	8.85E+00	0.427189714	6	1.09E-01
3	7.36E-01	-0.061164326	3	8.42E-01
4	5.77E-01	0.533920408	4	1.01E-01
36	2.31E+03	-0.156041455	36	1.89E+02
23	1.76E+06	0.63262457	23	3.94E-04
17	1.32E+01	0.58384954	17	3.42E-03
36	8.38E-06	0.833492193	36	1.65E-07
19	6.23E+01	0.745317942	19	3.08E-04
17	3.60E+07	-0.096418803	17	5.24E+00
15	1.69E+00	0.20389288	15	2.23E-01
4	2.86E+00	-0.372941867	4	2.99E+00

2	2.19E+00	0.025703481	2	6.03E-01
59	4.64E-02	0.06715385	59	3.73E+00
7	2.56E+00	0.272358481	7	2.13E-01
3	3.53E-01	-0.180067502	3	1.23E+00
6	7.82E-01	0.238417035	6	2.71E-01
28	1.71E+04	-0.336495578	28	1.12E+03
21	7.39E-01	0.853087052	21	3.91E-05
19	5.81E-01	-0.506570334	19	8.70E+02
19	1.17E-01	-0.063302619	19	4.52E+00
24	2.30E-05	0.609515779	24	4.20E-04
13	3.69E-03	0.541175533	13	1.32E-02
12	1.53E-02	0.354893056	12	7.44E-02
8	7.20E-03	0.215315952	8	2.76E-01
6	8.69E-02	0.034274903	6	7.25E-01
5	4.67E-01	-0.16748832	5	1.63E+00
2	3.76E-01	-0.135589929	2	9.25E-01
1	5.19E-01	-0.017221531	1	6.24E-01
6	2.85E-01	-0.236087536	6	2.67E+00
3	1.70E+00	0.229266367	3	3.33E-01
3	8.28E-01	0.0233118	3	6.43E-01
4	2.99E+00	-0.469553964	4	4.29E+00
2	4.85E-01	-0.091645186	2	8.23E-01
8	4.79E+01	-0.284327043	8	5.27E+00
7	1.63E+02	-0.972858711	7	1.69E+02
3	7.55E-01	-0.219600642	3	1.40E+00
2	3.67E-01	-0.073551703	2	7.85E-01
3	5.52E-01	-0.001592027	3	6.96E-01
7	1.79E+00	-0.263577043	7	3.77E+00
3	4.34E-01	0.186283525	3	3.82E-01
3	5.78E-01	0.03459966	3	6.20E-01
4	1.23E+00	0.099130658	4	5.13E-01
10	8.56E-01	0.002010997	10	1.12E+00
3	5.90E-01	0	3	6.93E-01
27	3.75E+00	0.131836579	27	4.42E-01
8	2.20E+00	0.192232073	8	3.17E-01
11	6.05E+06	0.045371623	11	8.64E-01
4	2.76E+02	-1	4	1.03E+02
8	1.77E+04	-1	8	6.77E+02
6	5.36E+03	-0.273943016	6	3.20E+00
4	3.50E+02	-0.867103247	4	1.89E+01
4	8.19E+01	-1	4	3.12E+01
5	2.24E+01	0.612104018	5	5.82E-02
4	4.82E+01	0.284712017	4	2.57E-01
19	5.38E+05	-0.371273105	19	1.75E+02
31	3.57E+07	-0.297928661	31	1.18E+03
36	9.49E-03	0.503751266	36	1.72E-04
2	2.29E-01	0.236830226	2	3.45E-01

6	6.35E-02	0.045424883	6	6.87E-01
27	5.36E-04	0.807255666	27	7.81E-06
9	5.01E+00	-0.14390072	9	2.67E+00
12	2.29E-01	0.199769746	12	2.60E-01
14	1.03E-01	0.241816775	14	1.64E-01
8	1.09E-06	0.07947725	8	6.16E-01
5	5.77E-08	2	5	7.53E-04
11	1.59E-05	0.430624393	11	4.75E-02
138	8.17E+08	-0.449466102	138	7.43E+18
13	6.69E+05	-1	13	2.74E+05
2	4.03E-01	-0.027791913	2	6.95E-01
2	8.96E+00	-0.873612614	2	6.53E+00
35	6.01E+07	-0.273358792	35	1.80E+03
33	8.56E+03	-0.04414094	33	1.35E+01
14	6.28E+00	-0.19516102	14	8.96E+00
7	7.42E-01	-0.194918796	7	2.61E+00
7	3.59E-01	-0.013656754	7	9.87E-01
66	5.67E+02	0.043903389	66	1.13E+01
4	6.38E-01	0.428418397	4	1.50E-01
8	3.26E-01	0.026367229	8	8.43E-01
6	2.45E-01	-0.002463457	6	8.66E-01
6	1.32E-02	0.571722754	6	5.44E-02
5	4.25E-04	0.003662398	5	7.85E-01
17	2.04E-04	0.817990692	17	2.74E-04
8	9.06E-03	0.082557927	8	6.05E-01
12	6.77E-07	1	12	7.94E-05
3	9.50E-02	-0.391537525	3	2.42E+00
3	4.08E-01	0.012521873	3	6.66E-01
18	1.20E-01	2	18	1.01E-08
2	4.35E-03	3	2	7.04E-04
93	3.24E+05	-0.250481759	93	1.75E+08
35	1.23E+05	-0.70738344	35	1.34E+07
7	4.25E+01	0.0059145	7	8.89E-01
2	5.84E-01	0.026833552	2	6.01E-01
9	8.37E-01	-0.019488769	9	1.20E+00
3	5.93E-01	-0.002476997	3	6.98E-01
30	5.63E+00	0.013053386	30	3.66E+00
4	3.36E-01	-0.028104223	4	8.25E-01
10	2.05E+00	0.131870502	10	4.51E-01
8	2.34E-01	0.362153725	8	1.16E-01
46	5.05E-02	-0.108850009	46	2.55E+02
6	1.52E+00	-0.051738674	6	1.10E+00
17	1.84E+02	0.131148014	17	4.51E-01
4	3.13E+00	0.000625567	4	7.41E-01
17	1.58E-01	0.208181203	17	1.96E-01
8	1.21E-02	0.706255396	8	1.52E-02
3	5.98E-01	-0.000640179	3	6.94E-01

8	3.19E+00	-0.132006051	8	2.15E+00
2	5.82E-01	0.012580691	2	6.25E-01
10	7.98E+00	-0.680980854	10	1.32E+02
30	3.54E-02	-0.091125875	30	2.35E+01
7	7.02E-02	-0.027735426	7	1.06E+00
2	5.45E-01	-1	2	1.38E+01
13	7.06E-04	0.596209357	13	8.23E-03
20	1.79E+00	-0.043704339	20	3.93E+00
2	5.60E-01	0.03859387	2	5.83E-01
35	1.47E-01	-0.123393075	35	8.28E+01
9	8.96E-01	-0.02924478	9	1.28E+00
13	3.13E+00	0.065427146	13	7.96E-01
15	1.70E+00	0.084289831	15	7.11E-01
4	7.58E-01	0.054412817	4	6.07E-01
20	2.97E+01	-0.061157366	20	4.89E+00
26	2.30E+00	-0.02972056	26	5.56E+00
12	2.20E+00	-0.108751035	12	3.14E+00
9	1.05E+00	-0.11275081	9	2.18E+00
3	5.70E-01	-0.155940455	3	1.14E+00
7	2.34E+02	0.211908487	7	2.95E-01
7	1.40E+00	-0.151955685	7	2.07E+00
10	1.03E+00	0.009904807	10	1.06E+00
2	5.67E-01	0.008201816	2	6.32E-01
10	6.43E-01	-0.069237063	10	1.84E+00
12	4.51E-01	-0.063327569	12	2.17E+00
5	2.18E-02	2	5	8.11E-04
5	8.22E-05	3	5	1.75E-05
4	2.01E-01	0.495730643	4	1.17E-01
4	3.11E-01	-0.235727387	4	1.79E+00
5	2.32E-02	-0.107363626	5	1.26E+00
3	1.22E+00	-0.368237545	3	2.24E+00
6	4.07E-01	-0.667663856	6	2.13E+01
2	4.94E-01	-0.809431351	2	5.51E+00
9	7.81E-01	-0.026653413	9	1.25E+00
7	1.27E+01	-0.101840446	7	1.58E+00
8	8.56E-01	0.105990097	8	5.27E-01
61	1.58E+00	0.027282786	61	1.59E+01
11	4.48E+00	-0.475635682	11	4.36E+01
48	1.46E+00	0.164257037	48	1.76E-01
20	6.59E+02	0.019411229	20	1.80E+00
23	2.63E-03	0.294883048	23	4.50E-02
8	2.72E+02	0.092939674	8	5.69E-01
19	8.72E-01	-0.144178939	19	1.18E+01
6	1.21E+00	0.326757326	6	1.77E-01
2	6.25E-01	0.201780985	2	3.78E-01
5	6.42E-01	0.000822042	5	7.95E-01
14	4.69E-04	-0.594808824	14	3.48E+02

13	2.15E+00	-0.299308042	13	1.84E+01
7	6.02E-01	-0.59392153	7	2.21E+01
6	4.56E-01	0.004952222	6	8.35E-01
3	8.27E-01	-0.002838785	3	6.99E-01
25	1.52E+10	-0.626915227	25	4.25E+04
5	8.45E-02	0.669041395	5	4.56E-02
46	1.43E-04	0.01876628	46	8.65E+00
1	4.84E-01	0.045858819	1	5.46E-01
2	4.57E-01	0.043285835	2	5.76E-01
16	2.44E-04	0.492434951	16	1.12E-02
5	6.57E-01	0	5	7.97E-01
1	5.36E-01	0	1	6.02E-01
13	4.09E+04	-0.931113946	13	4.25E+03
11	2.32E-01	0.700906729	11	6.21E-03
9	1.11E+00	1	9	8.89E-04
2	2.10E+00	2	2	9.39E-04
4	1.87E+01	2	4	9.48E-04
3	2.48E+00	-0.135075753	3	1.07E+00
3	6.14E-01	-0.328794352	3	1.98E+00
7	2.75E-01	-0.340873099	7	5.70E+00
16	8.45E-03	-0.324354568	16	4.78E+01
3	1.24E-01	0.120193615	3	4.72E-01
4	7.88E-02	-0.031895501	4	8.37E-01
6	1.04E+00	0.056154543	6	6.53E-01
2	2.70E+00	-0.086554548	2	8.12E-01
5	3.04E+01	0.458547317	5	1.12E-01
1	5.79E-01	0.048152151	1	5.44E-01
11	2.16E-02	-0.177178961	11	4.61E+00
28	2.44E-07	1	28	6.88E-10
5	5.80E+00	0.278673297	5	2.42E-01
2	1.63E+00	-1	2	1.22E+01
7	8.88E+00	-0.15504075	7	2.11E+00
5	4.66E+00	-0.353294765	5	3.61E+00
3	1.44E+00	-0.309068268	3	1.86E+00
1	7.79E-01	-0.212488274	1	9.42E-01
6	6.32E+00	-0.540856218	6	1.16E+01
6	1.16E+00	-0.156902444	6	1.82E+00
5	3.35E-01	-0.348448684	5	3.54E+00
6	6.66E+00	-0.024059566	6	9.60E-01
3	9.69E-01	0.244004311	3	3.18E-01
2	4.17E-01	-0.135061048	2	9.24E-01
5	6.38E-01	-0.056903248	5	1.02E+00
2	6.49E-01	-0.130675134	2	9.13E-01
5	7.27E-01	-0.483485001	5	6.30E+00
22	3.18E+00	-0.158148463	22	2.22E+01
6	7.27E-01	0	6	8.55E-01
33	8.61E-01	-0.094037153	33	3.55E+01

13	3.10E-02	-0.123689327	13	4.06E+00
23	2.14E-01	0.127903575	23	4.69E-01
9	6.82E-01	0.00663192	9	1.01E+00
17	1.13E+00	0.046031174	17	1.13E+00
3	5.83E-01	0.013029108	3	6.65E-01
17	6.78E+01	0.101555559	17	6.20E-01
86	6.17E+08	0.590161126	86	1.05E-10
24	2.08E+03	2	24	3.91E-15
2	5.67E-01	0.018713773	2	6.15E-01
15	4.03E-01	0.101614336	15	6.01E-01
113	1.01E-01	0.186401057	113	1.29E-02
49	1.60E-03	0.275340791	49	7.60E-03
7	3.29E-01	-0.083717903	7	1.44E+00
3	1.38E+01	-1	3	8.21E+01
2	1.51E+00	0.22907974	2	3.52E-01
10	5.00E+02	-0.3380966	10	1.20E+01
6	2.32E+04	-0.731678717	6	2.90E+01
12	1.13E+00	-0.099587465	12	2.91E+00
11	1.51E+01	-0.367657938	11	1.94E+01
18	4.51E-03	-0.46121959	18	3.69E+02
7	3.08E+00	-0.283179276	7	4.19E+00
19	1.97E-03	0.110250222	19	5.76E-01
16	2.47E-01	-0.218870573	16	1.62E+01
13	1.15E+01	0.078210522	13	7.13E-01
21	3.67E+01	-0.357229131	21	2.51E+02
1	1.08E+00	-0.309464919	1	1.16E+00
3	8.70E-02	-0.096291732	3	9.42E-01
24	3.27E-03	0.042125208	24	1.64E+00
31	1.08E+12	-0.38165038	31	5.50E+03
13	3.04E+03	-0.293550243	13	1.75E+01
20	9.53E+03	-0.645995188	20	6.93E+03
13	1.14E+02	-0.851589426	13	2.14E+03
10	1.87E-01	0.119946682	10	4.90E-01
46	6.85E+01	0.020612585	46	8.24E+00
5	1.77E+00	0.001033764	5	7.94E-01
18	8.11E+00	0.098367016	18	6.53E-01
20	3.13E-01	-0.016077379	20	2.79E+00
8	2.73E-01	2	8	4.57E-05
10	1.64E+03	-0.613403318	10	8.23E+01
5	1.60E+02	-0.639153106	5	1.23E+01
4	4.85E+00	-0.151546955	4	1.31E+00
14	6.92E+01	-0.446694709	14	8.96E+01
7	1.77E-02	-0.124463215	7	1.79E+00
12	2.40E+01	-0.191750729	12	6.13E+00
11	7.02E-05	-0.00449838	11	1.26E+00
7	5.80E-01	-0.268884316	7	3.88E+00
5	7.64E-01	0.006369973	5	7.76E-01

15	3.64E+02	0.422205344	15	2.68E-02
3	1.06E-01	-0.722242507	3	6.94E+00
6	1.35E+00	-0.333520804	6	4.27E+00
1	5.36E-01	0	1	6.02E-01
3	6.33E-01	-0.057004322	3	8.31E-01
16	6.36E-02	-0.012676959	16	1.97E+00
37	2.03E+00	0.109822822	37	7.03E-01
16	1.82E+01	-0.804252638	16	6.51E+03
10	2.47E+02	-1	10	3.62E+03
3	3.14E+00	-0.405954836	3	2.53E+00
18	8.93E-08	-0.016048254	18	2.38E+00
9	4.59E-02	-0.309563624	9	7.76E+00
20	6.62E+02	0.002015235	20	2.23E+00
79	3.72E+01	-0.036041986	79	7.16E+02
17	8.89E-02	0.34341128	17	4.57E-02
2	5.69E-01	-0.107043949	2	8.57E-01
77	4.00E+10	-0.354317666	77	5.80E+08
9	1.04E+01	-0.567869713	9	4.10E+01
8	2.40E+00	-0.251382733	8	4.34E+00
5	1.50E-01	-0.545728575	5	8.22E+00
25	4.03E-02	-0.270922393	25	1.95E+02
4	1.10E-01	0.286949848	4	2.55E-01
9	2.39E-01	0.909742199	9	3.00E-03
22	6.76E+00	0.801056122	22	5.33E-05
18	4.90E-02	0.123327272	18	4.92E-01
10	1.63E+00	-0.411433601	10	2.01E+01
16	2.44E-04	0.188693344	16	2.50E-01
5	1.25E-03	2	5	1.70E-04
43	1.27E-01	0.289230077	43	8.64E-03
17	6.45E+08	-1	17	9.98E+05
15	3.60E+01	-0.192655063	15	1.04E+01
10	2.74E-02	-0.321211405	10	1.07E+01
12	6.56E+01	-0.158248373	12	4.68E+00
7	2.62E-02	3	7	3.48E-07
12	5.01E-02	0.24595677	12	1.79E-01
1	2.67E-01	-0.608459899	1	2.17E+00
3	3.03E-01	-0.633973043	3	5.24E+00
24	1.22E+00	0.419977916	24	6.65E-03
2	5.35E-01	0.41825139	2	2.13E-01
14	2.05E+05	0.000807164	14	1.49E+00
7	1.41E+00	0.6788275	7	2.41E-02
21	3.22E+03	0.820034082	21	6.00E-05
7	1.70E+01	0.693117245	7	2.23E-02
13	3.23E+00	0.437865669	13	3.22E-02
11	1.72E+01	-0.585832614	11	1.00E+02
1	6.84E-01	-0.239656072	1	9.97E-01
4	8.09E-01	0.163527303	4	4.04E-01

6	3.62E+00	0.140031847	6	4.36E-01
6	4.98E-01	-0.330921399	6	4.21E+00
7	8.65E-02	0.399223399	7	1.08E-01
26	2.10E-03	0.759475537	26	2.38E-05
22	5.07E-02	1	22	8.54E-07
19	9.89E+01	0.969611963	19	2.15E-05
7	2.36E+01	2	7	1.18E-05
19	1.84E+00	-0.212605189	19	2.66E+01
4	5.68E-02	-1	4	4.40E+01
2	3.10E-01	-0.141929012	2	9.40E-01
8	8.54E+01	-0.603410656	8	3.47E+01
11	1.59E+01	-0.667064289	11	1.84E+02
8	1.03E+00	-0.713206651	8	6.63E+01
18	2.93E-01	-0.358294539	18	1.15E+02
9	6.97E-01	0.912223299	9	2.96E-03
2	1.96E+00	-0.036266081	2	7.11E-01
5	5.07E+00	-0.245948475	5	2.28E+00
16	5.53E+01	2	16	2.49E-08
5	1.98E+00	0.792539083	5	2.69E-02
8	2.33E+01	-0.864903023	8	1.62E+02
8	2.87E+02	0.058228658	8	6.98E-01
4	7.83E-01	-0.46946452	4	4.29E+00
3	3.35E-01	-0.270026647	3	1.64E+00
3	6.34E-01	0.103880996	3	4.97E-01
3	7.93E+00	-0.157098748	3	1.14E+00
5	3.72E+00	1	5	5.04E-03
5	5.14E-01	0.154328267	5	4.12E-01
32	1.26E-04	0.253564536	32	4.39E-02
29	2.26E-03	-0.111951159	29	2.98E+01
11	9.18E-02	-0.157156045	11	3.97E+00
1	5.26E-01	1.91E-05	1	6.02E-01
6	3.59E-01	-0.038242209	6	1.03E+00
6	6.59E-02	-0.034783712	6	1.01E+00
2	5.66E-01	-0.082051231	2	8.03E-01
5	8.79E-01	-0.618971429	5	1.12E+01
11	5.78E+00	1	11	6.20E-04
6	5.82E+00	0.68508419	6	3.15E-02
16	1.26E-02	-0.05749203	16	3.11E+00
9	5.46E-02	-0.111455975	9	2.17E+00
9	6.12E-01	-0.053975204	9	1.50E+00
24	1.41E+00	-0.187635008	24	4.67E+01
20	9.19E-01	-0.188662661	20	2.38E+01
5	7.15E-01	-0.026027141	5	8.91E-01
21	1.31E+00	-3.58E-06	21	2.45E+00
2	5.78E-01	-0.056439658	2	7.50E-01
4	2.27E-01	-1	4	4.43E+01
20	2.19E+00	-0.157644267	20	1.62E+01

11	1.48E+00	-0.120758873	11	3.02E+00
7	7.38E-01	-0.010622124	7	9.71E-01
30	3.36E-01	-0.039019567	30	9.26E+00
10	2.62E-01	-0.129465811	10	2.80E+00
6	1.01E+00	0	6	8.55E-01
81	4.09E+05	-0.023425546	81	4.83E+02
6	6.95E-01	-0.001682846	6	8.62E-01
3	5.93E-01	0.392342801	3	1.98E-01
12	9.38E-01	0.004057846	12	1.26E+00
2	5.64E-01	0	2	6.46E-01
5	6.89E-01	-0.015520645	5	8.52E-01
20	1.34E+00	-0.118211169	20	9.92E+00
10	8.62E-02	-0.033249683	10	1.43E+00
3	4.79E-01	0.449998665	3	1.65E-01
10	4.74E-01	0.406699063	10	6.61E-02
5	4.25E-03	-0.4614811	5	5.73E+00
8	2.57E-01	0.207751124	8	2.89E-01
5	7.23E-01	0.439021341	5	1.22E-01
6	5.83E-01	0.1653026	6	3.86E-01
4	6.19E-01	-0.00101263	4	7.46E-01
1	5.36E-01	0	1	6.02E-01
4	7.18E-01	0.060285223	4	5.93E-01
1	5.40E-01	0.009810881	1	5.90E-01
4	6.24E-01	0	4	7.43E-01
1	5.36E-01	0	1	6.02E-01
4	6.24E-01	0.319668136	4	2.25E-01
3	7.23E-01	0.555243786	3	1.18E-01
3	6.05E-01	0.165921019	3	4.08E-01
4	2.84E+00	1	4	6.15E-03
5	1.32E+01	0.253978224	5	2.69E-01
5	6.43E-01	0.604474789	5	6.01E-02
4	1.74E-01	-0.068976275	4	9.61E-01
5	3.22E+01	-0.964260224	5	4.92E+01
6	7.00E-01	0.243732765	6	2.64E-01
8	1.46E+00	-0.320293764	8	6.52E+00
2	5.64E-01	0.052120035	2	5.62E-01
6	3.12E-01	-0.008120229	6	8.89E-01
7	1.92E+00	-0.049514649	7	1.20E+00
6	1.06E+01	-0.049131566	6	1.08E+00
6	1.19E+00	0.802914479	6	1.79E-02
6	1.04E+00	1	6	4.02E-03
9	1.39E+00	0.711266139	9	1.08E-02
13	1.56E+01	0.58672763	13	8.94E-03
4	1.75E+00	0.207410203	4	3.43E-01
9	1.23E+05	-0.29439817	9	7.04E+00
6	6.99E-01	0.123974955	6	4.71E-01
5	1.41E+00	0.256019457	5	2.67E-01

5	3.94E+00	0.288128044	5	2.33E-01
3	1.83E+00	-0.318270031	3	1.91E+00
4	1.34E+00	-0.353335743	4	2.78E+00
3	6.94E-01	0.081436076	3	5.34E-01
3	7.22E-01	0.021630008	3	6.47E-01
7	1.62E+01	-0.298388511	7	4.54E+00
3	4.48E+00	-0.07945566	3	8.93E-01
8	2.84E+01	0.04421042	8	7.58E-01
3	2.45E+00	-0.02959327	3	7.61E-01
9	1.02E+03	-0.021932472	9	1.22E+00
4	6.24E-01	0	4	7.43E-01
1	5.36E-01	0	1	6.02E-01
7	5.56E-02	-0.637329698	7	2.79E+01
2	5.58E-01	-0.006268152	2	6.57E-01
1	5.36E-01	0	1	6.02E-01
3	3.75E-01	0.738434762	3	6.56E-02
10	4.60E+00	1	10	1.92E-04
8	1.06E+01	2	8	4.53E-06
6	8.92E-01	0.349509471	6	1.59E-01
9	4.71E+02	2	9	2.14E-07
9	1.38E+01	0.293025829	9	1.60E-01
6	1.17E+00	-0.066966552	6	1.18E+00
3	5.84E-01	-0.002474229	3	6.98E-01
4	6.24E-01	0	4	7.43E-01
4	6.47E-01	0.000609947	4	7.42E-01
6	1.35E+01	3	6	9.35E-07
16	8.01E-02	0.45432179	16	1.65E-02
8	1.41E+00	-0.155058879	8	2.46E+00
21	1.17E+01	-0.336110174	21	1.91E+02
19	2.02E-02	-0.330835909	19	1.08E+02
55	2.24E+00	0.079844883	55	2.18E+00
75	9.93E-01	0.025536168	75	3.71E+01
8	4.31E-01	0.024778647	8	8.50E-01
3	1.10E-01	-0.113666889	3	9.96E-01
11	4.83E-01	-0.030368983	11	1.53E+00
14	5.59E-01	0.034176206	14	1.10E+00
5	6.38E-01	0.007235632	5	7.73E-01
2	5.64E-01	0	2	6.46E-01
2	5.55E-01	0	2	6.46E-01
16	1.79E-01	-0.044323892	16	2.72E+00
8	7.65E-01	-0.001124145	8	9.91E-01
17	1.21E+00	-0.010340308	17	2.07E+00
6	5.39E-01	-0.065875108	6	1.17E+00
5	2.58E-01	0.024765673	5	7.17E-01
20	4.55E-01	-0.021579043	20	2.99E+00
2	2.66E-02	0.517371768	2	1.64E-01
9	2.24E-01	-0.115906321	9	2.23E+00

5	1.53E-04	0.33259792	5	1.92E-01
24	7.99E-08	1	24	2.68E-07
12	7.81E-01	-0.054490406	12	2.02E+00
6	6.85E-01	-0.098608443	6	1.38E+00
5	6.31E+01	0.301107829	5	2.20E-01
4	1.51E+01	-0.559916375	4	6.01E+00
1	5.36E-01	-0.039517244	1	6.54E-01
6	7.37E-01	-0.002503821	6	8.66E-01
2	5.64E-01	0	2	6.46E-01
6	9.44E-01	0.789887435	6	1.90E-02
6	5.24E-01	-0.050067803	6	1.09E+00
1	5.36E-01	-0.010644219	1	6.16E-01
5	6.57E-01	-0.079405989	5	1.12E+00
8	3.07E-01	-0.007364454	8	1.03E+00
24	1.74E+05	1	24	2.13E-07
4	8.27E-01	0.403470441	4	1.65E-01
8	5.00E+00	0.282450976	8	1.86E-01
12	4.03E+01	2	12	5.25E-09
1	5.36E-01	0.028027256	1	5.67E-01
11	6.03E+01	0.263166051	11	1.68E-01
32	1.96E+03	0.598360896	32	6.47E-05
9	2.62E-01	-0.029988509	9	1.28E+00
6	1.07E+00	-0.321363671	6	4.02E+00
1	5.40E-01	-0.009431536	1	6.14E-01
6	5.54E+00	-0.357721737	6	4.79E+00
4	6.24E-01	-0.17432678	4	1.42E+00
9	8.05E-01	-0.052605307	9	1.48E+00
8	6.36E-01	0.031181119	8	8.19E-01
2	5.64E-01	0	2	6.46E-01
31	9.39E-04	0.023370734	31	3.23E+00
21	3.33E+00	-0.063820256	21	5.61E+00
8	1.10E+00	-0.005816546	8	1.02E+00
14	6.50E-01	0.034414776	14	1.10E+00
35	4.03E+00	-0.006534702	35	7.51E+00
5	6.57E-01	0.001047417	5	7.94E-01
5	1.47E+00	-0.072036645	5	1.08E+00
3	6.10E-01	0.644688849	3	8.85E-02
20	2.92E+00	-0.031943005	20	3.40E+00
5	1.85E-01	-0.130851088	5	1.40E+00
4	1.18E+00	-0.100252557	4	1.08E+00
14	2.29E+06	0.442428651	14	2.61E-02
18	2.27E+04	-0.119587273	18	7.70E+00
1	5.33E-01	0	1	6.02E-01
9	8.91E-01	0	9	1.06E+00
7	4.83E-01	-0.084482604	7	1.44E+00
79	6.42E+03	-0.102281882	79	1.36E+04
2	5.64E-01	0	2	6.46E-01

7	4.99E-01	-0.012754311	7	9.83E-01
5	1.11E-01	-0.006111277	5	8.18E-01
2	3.74E-01	-0.302370391	2	1.44E+00
7	7.05E-01	0.088726517	7	5.70E-01
22	9.08E+02	0.166832594	22	2.77E-01
2	2.39E+00	1	2	4.42E-02
30	9.85E+13	-0.092146878	30	2.39E+01
16	2.28E+02	-0.158348451	16	8.74E+00
11	9.62E+06	-1	11	5.26E+04
2	6.95E-01	-0.032181082	2	7.03E-01
4	2.22E+00	-0.440896769	4	3.85E+00
9	6.36E-01	-0.032162795	9	1.30E+00
17	1.11E-01	-0.095666801	17	5.20E+00
43	9.54E-12	-0.306499334	43	2.36E+04
27	4.16E+01	-0.122830106	27	2.74E+01
3	3.36E+01	0.052629087	3	5.86E-01
4	2.52E+02	-0.151590015	4	1.31E+00
1	5.36E-01	-0.015937023	1	6.22E-01
2	5.64E-01	0	2	6.46E-01
3	5.93E-01	0	3	6.93E-01
10	8.55E-01	-0.174267771	10	3.83E+00
7	6.76E-01	0.022327269	7	8.14E-01
11	2.05E-01	0.029608548	11	9.73E-01
3	1.15E+00	0.024632966	3	6.40E-01
7	9.58E-01	0.170995616	7	3.67E-01
7	3.74E+01	-0.532346983	7	1.59E+01
39	1.96E+00	0.021307653	39	5.36E+00
67	2.13E+00	-0.028946955	67	1.86E+02
7	1.14E+02	-0.494675303	7	1.30E+01
16	4.45E-01	-0.167987934	16	9.65E+00
4	6.60E-01	-0.014661068	4	7.85E-01
10	1.10E+00	0	10	1.13E+00
5	2.23E+00	0.010943289	5	7.61E-01
9	1.97E+02	0.17869333	9	3.34E-01
4	6.38E-01	0.007441984	4	7.23E-01
7	1.68E+01	-0.446212389	7	1.00E+01
10	8.41E+01	-0.019759378	10	1.30E+00
10	3.20E+01	-0.842979144	10	4.09E+02
1	5.36E-01	-0.007796153	1	6.12E-01
6	6.65E-01	-0.119491453	6	1.52E+00
9	1.77E+02	-0.743990128	9	1.28E+02
8	3.00E+00	-0.278047636	8	5.08E+00
6	1.54E+02	-0.643031527	6	1.89E+01
11	8.89E+03	0.029384903	11	9.74E-01
5	9.84E-01	0.033538246	5	6.91E-01
10	9.78E+03	-0.650282313	10	1.06E+02
7	1.12E-01	-0.84046695	7	8.30E+01

4	4.49E-01	-0.491724721	4	4.66E+00
5	8.28E-01	-0.243071738	5	2.25E+00
10	1.81E+00	-0.115948602	10	2.55E+00
7	1.38E+00	-0.061705195	7	1.28E+00
20	1.81E+00	-0.064104994	20	5.07E+00
5	4.16E-01	0.020793345	5	7.29E-01
26	2.46E+00	-0.178317514	26	5.69E+01
7	3.89E-01	-0.249794596	7	3.50E+00
7	4.73E-01	0.148796404	7	4.13E-01
12	3.78E-03	2	12	5.47E-06
24	1.60E-01	0.019290676	24	2.29E+00
4	4.97E-01	-0.075138876	4	9.84E-01
4	2.83E-01	-0.127518985	4	1.20E+00
11	8.05E-01	-0.016241852	11	1.37E+00
5	6.52E-01	-0.004579455	5	8.13E-01
24	2.97E-01	0.107660367	24	6.31E-01
8	1.08E+01	-0.140121103	8	2.25E+00
18	6.80E+01	-0.248223533	18	3.30E+01
7	5.78E-01	0.043396523	7	7.27E-01
4	1.74E-01	-0.025903258	4	8.19E-01
2	5.64E-01	0	2	6.46E-01
5	6.57E-01	-0.197836095	5	1.86E+00
4	6.24E-01	0	4	7.43E-01
18	7.60E-02	0.005036166	18	1.88E+00
11	5.45E-01	0.185765827	11	3.00E-01
11	1.41E+01	0.227242453	11	2.20E-01
6	5.48E-01	-0.103009713	6	1.40E+00
12	1.75E+00	-0.150760201	12	4.40E+00
2	7.41E-01	-0.350371103	2	1.63E+00
15	4.43E+08	0.991236464	15	1.08E-04
7	1.44E+00	0.388499968	7	1.14E-01
3	5.93E-01	-0.150012263	3	1.12E+00
7	2.09E+00	0.260470899	7	2.27E-01
9	3.12E+02	2	9	5.11E-05
2	5.36E-01	-0.183110176	2	1.05E+00
1	5.36E-01	-0.035179514	1	6.48E-01
32	2.91E-01	0.137282306	32	3.96E-01
9	3.43E-01	0.084393412	9	6.13E-01
13	5.07E+01	0.744722084	13	2.29E-03
8	3.20E+01	0.082544037	8	6.05E-01
28	6.03E-01	-0.154489849	28	5.33E+01
1	5.36E-01	0	1	6.02E-01
3	7.10E-01	-0.042021155	3	7.92E-01
63	1.87E-02	0.129774048	63	4.56E-01
23	8.88E-02	-0.453116645	23	1.63E+03
10	2.05E+00	-0.267335889	10	7.33E+00
6	2.35E+00	-0.639916676	6	1.87E+01

6	6.89E-01	-0.000879937	6	8.59E-01
5	6.57E-01	-0.005189016	5	8.15E-01
3	5.17E-01	-0.264454913	3	1.61E+00
40	8.87E-02	0.324644637	40	4.92E-03
13	1.77E+01	0.656154125	13	4.91E-03
6	5.04E-01	0.027351123	6	7.50E-01
4	5.97E-01	-0.131505159	4	1.21E+00
23	7.94E+01	-0.130058746	23	1.75E+01
2	1.01E+00	-1	2	2.50E+01
11	3.61E+00	-0.032236313	11	1.55E+00
7	7.18E-01	0	7	9.18E-01
4	1.49E-01	-0.113729881	4	1.14E+00
23	5.71E+02	-0.141171529	23	2.05E+01
128	1.45E+40	0.511888547	128	7.59E-13
10	4.34E-02	0.598465176	10	1.73E-02
1	5.26E-01	0.0244643	1	5.72E-01
2	5.38E-01	0.01952964	2	6.13E-01
16	1.41E+00	-0.015740748	16	2.03E+00
13	2.96E-01	-0.12133432	13	3.98E+00
32	4.01E-11	0.372776227	32	4.61E-03
11	1.21E+00	0.030664505	11	9.65E-01
3	5.96E-01	-0.003392785	3	7.00E-01
8	8.50E-01	0.034021362	8	8.05E-01
11	1.04E+01	0.290441758	11	1.36E-01
7	2.07E+00	0.067384785	7	6.39E-01
32	1.26E+04	-0.613324572	32	5.80E+05
16	6.69E+02	1	16	5.67E-05
5	6.97E-01	-0.003186569	5	8.08E-01
35	5.17E-01	0.339631598	35	6.13E-03
8	4.72E-01	-0.114203116	8	1.93E+00
9	6.98E-02	-0.125922448	9	2.38E+00
3	1.09E-01	0.000294279	3	6.92E-01
4	3.59E-01	0.139814444	4	4.41E-01
10	3.18E-01	0.358305985	10	9.27E-02
15	3.24E-01	-0.086232167	15	3.72E+00
5	2.07E+01	-0.38075586	5	4.06E+00
11	3.73E+00	-0.115201443	11	2.89E+00
12	2.00E-03	0.4161266	12	4.54E-02
9	8.40E-01	-0.030029038	9	1.28E+00
6	5.02E-01	0.066635705	6	6.20E-01
2	6.52E-01	0.001251263	2	6.44E-01
4	8.82E-01	0.315375442	4	2.29E-01
6	4.13E+01	-0.260666875	6	3.00E+00
8	7.84E+01	-0.496659963	8	1.85E+01
5	7.89E-01	0.48448575	5	1.00E-01
6	1.24E+01	-0.274779167	6	3.21E+00
11	1.47E+00	-0.01633534	11	1.37E+00

13	1.07E+01	0.007097152	13	1.32E+00
7	3.91E-02	-0.052115861	7	1.21E+00
5	8.10E-01	-0.137801517	5	1.44E+00
16	3.37E+02	-0.677962632	16	1.79E+03
5	2.73E+00	-0.719731688	5	1.73E+01
5	3.43E-01	-0.056801001	5	1.02E+00
79	2.38E+12	-0.463286439	79	1.24E+11
3	1.06E+00	-0.204815868	3	1.33E+00
4	2.07E+00	-0.322026273	4	2.47E+00
26	7.03E+06	-0.681367051	26	1.50E+05
7	4.71E-01	-0.793924201	7	6.47E+01
31	8.12E-01	0.087013838	31	1.00E+00
7	8.43E-01	-0.072986131	7	1.36E+00
8	8.34E+03	-0.954008949	8	2.74E+02
5	3.48E+04	-2	5	1.21E+03
8	4.07E-01	-0.017654843	8	1.09E+00
4	5.52E-01	0	4	7.43E-01
3	1.80E-01	0	3	6.93E-01
86	7.37E+01	-0.004591302	86	2.95E+02
7	1.43E+00	-0.071526648	7	1.35E+00
23	1.53E+07	-0.481952839	23	2.45E+03
1	5.07E-01	-0.037222424	1	6.51E-01
9	1.92E-02	0.215751429	9	2.63E-01
3	5.96E-06	3	3	2.13E-05
19	5.14E-01	0.059652247	19	1.05E+00
6	6.70E-01	0	6	8.55E-01
17	1.02E-01	0.0201785	17	1.49E+00
3	5.93E-01	0	3	6.93E-01
20	1.72E+00	-0.000873551	20	2.31E+00
4	6.34E-01	-0.015894016	4	7.89E-01
9	4.37E-02	0.089837071	9	5.92E-01
6	1.96E-01	-0.645125679	6	1.91E+01
3	5.93E-01	0	3	6.93E-01
7	5.25E-01	-0.082081154	7	1.42E+00
12	2.15E+00	-0.058616603	12	2.09E+00
7	5.80E-02	0.0028913	7	9.04E-01
25	1.02E-03	0.400683072	25	7.61E-03
5	1.26E+01	0.354077678	5	1.75E-01
15	1.27E+01	-0.234618767	15	1.57E+01
6	1.54E-01	-0.010279725	6	8.99E-01
4	1.11E+01	-0.232241452	4	1.77E+00
30	1.07E-02	-0.105200389	30	3.01E+01
10	1.41E+00	-0.335969079	10	1.18E+01
21	2.51E+01	-0.059226792	21	5.28E+00
10	4.54E-01	-0.003786127	10	1.16E+00
1	5.36E-01	0	1	6.02E-01
6	3.70E-01	-0.090116064	6	1.32E+00

6	3.45E+00	-0.208665917	6	2.34E+00
5	7.80E+00	-0.188035162	5	1.78E+00
11	1.12E+05	-0.974467108	11	1.87E+03
7	4.54E+00	-0.369721896	7	6.66E+00
51	1.81E+10	-0.520024584	51	8.01E+07
1	9.91E-01	-0.086332096	1	7.22E-01
7	6.71E-01	0.208282581	7	3.00E-01
13	3.33E-01	-0.014293074	13	1.58E+00
3	5.94E-01	0	3	6.93E-01
10	4.75E-01	0	10	1.13E+00
6	6.58E-01	0.011318941	6	8.10E-01
14	4.34E-01	0.349246276	14	6.13E-02
10	7.59E-01	-0.089499236	10	2.12E+00
5	2.86E-01	2.91E-06	5	7.97E-01
57	2.60E+00	0.059272398	57	4.50E+00
13	2.98E+00	-0.15033666	13	5.11E+00
31	9.47E-06	0.371809878	31	5.35E-03
6	3.42E-01	0.115573986	6	4.90E-01
8	1.30E-02	0.640957393	8	2.24E-02
7	8.25E-02	-0.220396922	7	2.99E+00
4	9.14E-02	0.125688581	4	4.65E-01
15	8.73E-08	0.881095774	15	3.13E-04
4	1.15E+00	-0.454081951	4	4.05E+00
23	6.15E-01	-0.068278295	23	7.36E+00
6	6.46E-03	0.288549372	6	2.13E-01
11	3.62E-03	0.14251928	11	4.16E-01
17	1.37E+03	-1	17	1.17E+05
21	1.63E+00	-0.50362291	21	1.67E+03
3	6.18E-01	-0.760326962	3	7.84E+00
10	5.10E-02	-0.625819414	10	8.98E+01
9	2.55E-01	-0.18038416	9	3.38E+00
6	6.41E-02	0.372173574	6	1.42E-01
11	3.48E-01	-0.002319385	11	1.24E+00
4	2.06E-01	0.264584323	4	2.77E-01
8	5.60E-02	-0.176002083	8	2.78E+00
10	7.23E-02	2	10	1.56E-05
5	6.89E-01	-0.218196837	5	2.03E+00
13	2.15E+01	-0.418098799	13	5.12E+01
11	5.66E-01	-0.054558553	11	1.83E+00
7	1.05E+00	-0.056301169	7	1.24E+00
8	4.72E-02	0.471721124	8	6.08E-02
6	8.10E-04	3	6	5.12E-07
7	1.08E-02	2	7	6.17E-05
10	1.28E-03	0.005477368	10	1.09E+00
5	4.08E+00	0.356736892	5	1.73E-01
28	2.01E+06	0.414611485	28	3.88E-03
32	7.30E-02	0.394664933	32	3.05E-03

1	5.36E-01	-0.017696984	1	6.25E-01
7	5.93E-01	0.003228902	7	9.02E-01
10	6.21E-02	-0.203145073	10	4.68E+00
2	4.48E-01	-0.038785203	2	7.16E-01
4	4.21E+00	-0.677550253	4	9.33E+00
3	2.02E+01	-0.888262839	3	1.18E+01
7	7.27E-01	0	7	9.18E-01
18	2.11E+01	-0.084026065	18	5.15E+00
11	4.63E+00	-0.019355569	11	1.41E+00
55	1.65E-06	-0.52142915	55	3.42E+08
31	1.37E+04	-0.291587396	31	1.05E+03
9	3.03E-01	-0.465575328	9	2.12E+01
22	3.63E-02	-0.067825546	22	6.57E+00
14	2.03E+00	-0.826757443	14	2.91E+03
5	1.29E-02	-0.009169518	5	8.29E-01
12	1.26E+01	2	12	2.69E-06
16	1.83E+00	0.164412722	16	3.21E-01
21	1.37E+00	-0.213413461	21	3.89E+01
9	4.06E-03	-0.556523646	9	3.81E+01
12	3.68E+02	-0.91777436	12	2.15E+03
12	1.25E+00	0.139019356	12	4.25E-01
10	9.08E-01	3	10	2.40E-08
3	3.42E+00	-0.501710412	3	3.43E+00
4	1.12E+00	-0.573782886	4	6.33E+00
9	8.06E+03	0.051298073	9	7.59E-01
9	1.39E-01	-0.111320079	9	2.16E+00
20	3.37E+00	-0.472965646	20	8.09E+02
12	5.07E-02	-0.023933586	12	1.58E+00
6	1.66E-04	0.084856533	6	5.68E-01
7	1.61E+03	-0.8853314	7	1.06E+02
4	1.02E+01	-0.790808592	4	1.42E+01
9	7.80E-01	-0.412534378	9	1.51E+01
22	2.23E-01	-0.062159071	22	6.09E+00
2	4.16E-01	-0.129930523	2	9.11E-01
4	3.05E-02	-0.479473235	4	4.45E+00
16	1.29E-01	0.067592319	16	8.65E-01
5	8.65E-01	-0.036746909	5	9.33E-01
38	1.48E+07	-0.239898827	38	1.65E+03
11	2.29E+00	0.562781361	11	1.76E-02
9	3.55E+01	-0.898937766	9	3.46E+02
7	4.61E-01	-0.13845144	7	1.93E+00
41	3.13E-04	0.00267126	41	9.39E+00
28	3.40E-02	0.390449469	28	5.81E-03
7	3.52E+02	-0.126972356	7	1.81E+00
10	6.90E+01	-0.417597991	10	2.10E+01
29	8.00E-06	0.864065004	29	1.40E-06
18	2.18E-02	0.02632569	18	1.48E+00

14	4.82E+04	-0.136130713	14	5.22E+00
2	1.19E-01	0.269291652	2	3.16E-01
9	1.72E+03	0.557899251	9	2.90E-02
9	2.99E+01	0.618713719	9	1.96E-02
5	1.15E+00	0.210995053	5	3.23E-01
3	5.44E+00	-0.937917038	3	1.38E+01
9	6.89E+00	-0.035445886	9	1.33E+00
24	1.39E+09	-1	24	6.29E+07
6	3.41E-02	0.554301847	6	5.92E-02
25	9.66E-03	-0.141233868	25	2.75E+01
13	1.70E-06	2	13	1.36E-09
9	5.71E-03	2	9	2.11E-07
93	7.05E-04	0.379991783	93	1.02E-06
22	1.38E+00	-0.189234739	22	3.38E+01
20	1.42E-06	-0.108801958	20	8.83E+00
7	5.41E-01	0.7196126	7	1.94E-02
5	4.93E-01	0.225772189	5	3.04E-01
6	8.37E-01	0.40617633	6	1.21E-01
7	1.00E-01	0.001056633	7	9.12E-01
6	2.57E-03	-0.302952362	6	3.68E+00
10	2.33E+03	-2	10	8.22E+04
9	3.23E+01	-0.428179569	9	1.67E+01
11	1.14E+02	-0.895571427	11	1.03E+03
5	2.67E+00	-0.126344666	5	1.37E+00
6	1.92E-01	-0.12427276	6	1.56E+00
13	2.39E+05	-0.237408474	13	1.08E+01
29	5.34E+00	0.006507932	29	3.85E+00
1	1.50E+00	-0.440606884	1	1.52E+00
1	5.69E-01	-0.011009864	1	6.16E-01
5	9.13E-01	-0.322855217	5	3.17E+00
2	7.24E-01	-0.062688492	2	7.62E-01
7	7.80E-01	-0.61205725	7	2.44E+01
16	2.43E-01	0.31962612	16	6.55E-02
11	4.86E-02	0.086226334	11	6.35E-01
12	3.03E-01	0.055189441	12	8.35E-01
11	4.01E+00	1	11	3.51E-05
5	9.80E+00	-0.6762132	5	1.44E+01
8	9.68E-02	-0.415666552	8	1.14E+01
3	5.93E-01	0	3	6.93E-01
24	1.52E+00	0.450521573	24	4.26E-03
13	7.77E-01	0.06196397	13	8.20E-01
4	4.98E-01	-0.300987566	4	2.29E+00
1	2.11E-01	-0.917344212	1	4.16E+00
50	7.46E-15	0.013784002	50	1.27E+01
11	5.82E-01	0.856234597	11	1.93E-03
6	5.66E-01	-0.307619598	6	3.77E+00
4	8.37E-01	-0.17127351	4	1.41E+00

12	1.32E-01	0.613452223	12	9.23E-03
3	1.89E-01	-1	3	3.37E+01
6	2.90E-02	-0.729996781	6	2.88E+01
91	2.01E-22	-0.485472798	91	1.81E+13
13	5.05E-01	-0.723787373	13	7.13E+02
3	3.81E-01	0.230617485	3	3.32E-01
10	4.44E-01	0.63828453	10	1.31E-02
4	7.04E-01	-0.019128178	4	7.98E-01
4	8.22E-02	0.420919462	4	1.54E-01
7	6.76E-01	0.47787993	7	7.08E-02
5	6.65E-01	0.024739035	5	7.17E-01
6	3.09E-01	-0.157941431	6	1.83E+00
6	1.11E+00	-0.232707155	6	2.62E+00
4	4.35E-01	-0.681773296	4	9.47E+00
15	5.43E+03	-0.91292514	15	1.13E+04
7	4.64E-02	0.745582908	7	1.69E-02
6	1.68E-02	0.578981389	6	5.26E-02
5	4.77E-01	0.041348809	5	6.68E-01
26	2.61E+00	1	26	5.44E-09
6	5.40E-01	0.003961557	6	8.39E-01
5	2.14E+00	-0.149135585	5	1.51E+00
8	3.65E-04	1	8	8.08E-04
10	1.47E-01	3	10	3.26E-10
12	9.19E-02	0.046855533	12	8.93E-01
5	2.13E-01	-0.218892612	5	2.03E+00
8	1.34E-01	-0.697036553	8	6.02E+01
10	3.47E+00	-0.416013965	10	2.07E+01
13	7.32E-01	-0.087277239	13	2.97E+00
27	1.86E-05	-0.057746237	27	9.54E+00
6	2.74E-01	0.261735198	6	2.42E-01
9	6.20E-02	0.79719779	9	6.20E-03
3	1.24E+00	-0.140672424	3	1.09E+00
1	6.10E-01	0.049004947	1	5.43E-01
4	1.75E+00	-0.065640596	4	9.50E-01
11	5.54E+00	-0.093291224	11	2.45E+00
60	8.12E+00	0.077297231	60	2.73E+00
20	8.10E-04	0.084312217	20	8.04E-01
14	1.73E-03	0.502121164	14	1.51E-02
11	3.95E-02	0.108640892	11	5.36E-01
6	2.67E-01	-0.289400972	6	3.45E+00
15	9.81E-01	-0.711519812	15	1.60E+03
7	1.03E+03	-0.448237608	7	1.01E+01
14	2.94E+03	-0.716164683	14	1.06E+03
4	7.37E-01	-0.079626128	4	1.00E+00
13	3.39E-02	0.317222696	13	9.10E-02
3	7.75E-02	0.040718094	3	6.08E-01
32	8.73E-04	-0.415548673	32	1.38E+04

20	5.66E+01	0.306350791	20	5.11E-02
7	1.31E-02	-0.277521006	7	4.06E+00
3	5.21E-02	-0.924164717	3	1.32E+01
4	3.01E+00	-0.046720378	4	8.85E-01
1	5.56E-01	-0.015182096	1	6.21E-01
2	6.75E-01	-0.067051063	2	7.71E-01
21	1.45E+04	-0.240516449	21	5.53E+01
26	1.19E-04	-0.019373707	26	4.72E+00
3	4.63E-01	0.130483148	3	4.57E-01
9	2.96E+01	-0.34315169	9	9.64E+00
25	1.67E-02	-0.153245951	25	3.30E+01
8	8.10E-01	-0.27044845	8	4.86E+00
23	1.75E-04	0.073215333	23	1.01E+00
10	4.18E-05	0.402707366	10	6.80E-02
7	1.93E-08	2	7	1.43E-04
9	5.16E-05	0.172379317	9	3.48E-01
11	1.99E-07	1	11	1.81E-04
5	4.56E-05	0.060113674	5	6.17E-01
5	3.03E-01	0.004055139	5	7.84E-01
10	1.16E+00	0.27834262	10	1.62E-01
2	5.43E-01	-0.059128045	2	7.55E-01
3	8.84E-01	-0.150727604	3	1.12E+00
15	1.77E+03	-0.700408077	15	1.43E+03
9	1.11E-03	-0.412173742	9	1.50E+01
3	1.75E-01	-0.062120773	3	8.45E-01
12	7.60E-04	0.930676231	12	7.13E-04
7	1.58E-06	1	7	9.39E-04
8	4.28E-03	0.790079631	8	9.29E-03
15	1.89E-02	-0.023024717	15	2.01E+00
5	2.72E-02	1	5	4.81E-03
5	2.19E-05	2	5	1.84E-04
12	1.24E-07	0.570374623	12	1.31E-02
5	2.12E-03	0.716341285	5	3.73E-02
5	5.79E-02	0.667865506	5	4.59E-02
16	2.15E-03	0.265246966	16	1.14E-01
22	5.96E-24	2	22	5.29E-12
23	4.50E-13	0.514175532	23	2.08E-03
22	6.56E-01	-0.398431812	22	5.69E+02
10	1.74E-02	0.278253935	10	1.62E-01
14	2.82E-05	1	14	1.67E-05
8	5.72E-01	0.192394003	8	3.16E-01
7	5.18E-06	1	7	1.06E-03
15	3.75E-11	2	15	5.89E-07
9	6.54E-02	2	9	3.28E-07
4	9.46E-02	2	4	2.44E-03
7	4.83E-01	-0.800321169	7	6.69E+01
28	1.81E-08	2	28	6.00E-12

1	1.10E-02	0.36293199	1	2.80E-01
23	2.76E-05	0.16385015	23	2.83E-01
17	1.43E+01	-0.633792534	17	1.72E+03
91	6.14E-13	-0.302888583	91	1.67E+09
9	6.02E+01	0.598082024	9	2.24E-02
6	4.65E-01	0.308165704	6	1.94E-01
16	3.79E-03	0.155665753	16	3.51E-01
9	1.04E-02	0.188405401	9	3.14E-01
10	7.60E-01	-1	10	1.71E+03
13	1.14E-02	0.244104122	13	1.71E-01
20	2.48E-05	1	20	2.51E-07
6	2.67E-02	0.205990143	6	3.17E-01
8	1.78E+00	-0.053171919	8	1.35E+00
33	3.59E-08	0.679366893	33	1.04E-05
13	3.55E-02	0.397022994	13	4.58E-02
11	2.90E-01	-0.477911956	11	4.44E+01
9	3.62E+01	-0.369454414	9	1.14E+01
5	1.12E+00	-0.299437348	5	2.87E+00
24	6.72E-02	-0.325795318	24	3.50E+02
5	1.92E-02	0.547063809	5	7.69E-02
3	1.04E-01	0.354915992	3	2.23E-01
5	9.81E-01	0.218988636	5	3.13E-01
46	5.86E-04	0.009717519	46	1.10E+01
9	5.34E-01	0.10479147	9	5.38E-01
12	5.61E-03	0.061311944	12	7.95E-01
86	1.98E+10	0.591891621	86	9.68E-11
13	1.21E-01	0.485279734	13	2.14E-02
14	1.73E+01	1	14	3.28E-05
13	2.26E+05	1	13	2.33E-04
20	2.08E+02	-0.38934905	20	2.87E+02
4	3.23E+00	-0.264110761	4	1.99E+00
15	9.08E-01	-0.01951866	15	1.95E+00
9	2.34E-01	-0.208411146	9	4.05E+00
18	1.55E-03	0.512400395	18	6.00E-03
12	4.44E-02	0.321457672	12	9.74E-02
4	1.15E+01	-0.553995787	4	5.88E+00
8	1.15E+04	-0.886323838	8	1.84E+02
11	1.13E+05	-0.894684262	11	1.02E+03
10	6.97E+00	-0.336822553	10	1.19E+01
4	8.90E-02	-0.284008549	4	2.15E+00
6	5.25E-05	0.761278718	6	2.18E-02
5	1.48E-05	0.575891811	5	6.80E-02
3	1.06E-02	-0.100902367	3	9.56E-01
11	2.75E-02	1	11	1.71E-04
5	7.51E-02	0.808441289	5	2.51E-02
4	2.34E-01	0.126675122	4	4.63E-01
17	6.37E-03	0.247451419	17	1.29E-01

3	1.43E-02	-0.777063719	3	8.27E+00
5	4.09E-03	-0.334206847	5	3.33E+00
4	3.12E-01	-0.141094409	4	1.26E+00
17	1.31E-01	-0.392535856	17	1.28E+02
14	1.05E-01	0.699052555	14	2.49E-03
40	1.54E+00	0.307143796	40	7.38E-03
29	6.03E-09	0.032514222	29	2.45E+00
8	8.94E-05	-0.410038002	8	1.11E+01
6	3.39E-01	-0.664487478	6	2.10E+01
10	2.15E-02	-2	10	2.26E+05
8	3.78E-01	-0.19520876	8	3.12E+00
6	4.19E+00	-0.107313665	6	1.43E+00
5	4.29E+00	-0.359666961	5	3.71E+00
5	5.69E+00	0.13521878	5	4.47E-01
3	1.82E-01	0.27733793	3	2.86E-01
3	6.68E-02	0.53292563	3	1.26E-01
9	1.79E-02	2	9	5.05E-06
11	4.81E-05	-0.143498375	11	3.58E+00
12	2.09E+00	-0.152770714	12	4.47E+00
18	3.68E+03	-0.330601725	18	8.40E+01
42	4.24E+10	-0.191498836	42	1.13E+03
1	5.36E-01	-0.008875627	1	6.13E-01
7	1.33E+01	-0.702854397	7	3.97E+01
11	2.87E+01	-2	11	1.31E+05
4	1.04E+00	-0.121304358	4	1.17E+00
13	3.25E+03	-0.64774965	13	3.70E+02
34	3.86E+00	-0.43779846	34	3.88E+04
13	2.16E+01	-0.348244276	13	2.81E+01
25	4.89E-03	1	25	3.88E-07
4	7.88E-01	0.296012855	4	2.46E-01
18	1.56E+01	0.686234426	18	8.39E-04
7	1.28E+05	-0.368136317	7	6.60E+00
2	4.46E-01	-0.012929647	2	6.68E-01
7	5.93E+02	-0.799200893	7	6.65E+01
4	1.65E+02	-0.936746103	4	2.45E+01
3	1.91E+00	-0.239397905	3	1.49E+00
13	1.03E+04	-0.202117135	13	7.98E+00
18	7.12E+03	-0.804309996	18	1.79E+04
8	9.41E+01	-0.359080251	8	8.20E+00
5	1.34E+01	-0.992025391	5	5.54E+01
5	9.17E-01	-0.056051297	5	1.01E+00
4	1.06E+00	0	4	7.43E-01
3	1.34E+00	-0.153920188	3	1.13E+00
2	5.05E-01	-0.171969239	2	1.02E+00
7	5.78E+00	0.183326899	7	3.44E-01
12	7.12E-01	0.184345135	12	2.95E-01
5	1.11E+00	0.007180027	5	7.73E-01

19	3.87E+00	0.170296356	19	2.83E-01
3	6.34E-02	0.013076844	3	6.64E-01
9	8.10E-02	-0.333548429	9	9.06E+00
9	2.93E-02	-0.002998397	9	1.08E+00
6	1.04E-03	0.923231106	6	1.00E-02
4	7.02E-02	-0.463351209	4	4.19E+00
8	1.30E-01	-0.188020485	8	2.99E+00
3	3.42E-01	-0.373970371	3	2.28E+00
6	5.76E+02	-1	6	2.15E+02
10	1.65E+04	-2	10	2.24E+05
8	2.33E+01	-0.46288188	8	1.51E+01
6	9.77E-02	-0.331804316	6	4.23E+00
1	4.60E-01	-0.047762323	1	6.66E-01
2	4.52E-01	-0.155490199	2	9.75E-01
8	4.52E-01	1	8	1.42E-03
7	1.50E+03	0.829494723	7	1.08E-02
6	5.79E+00	0.271578645	6	2.31E-01
9	8.45E-01	-0.311085203	9	7.84E+00
5	2.26E-01	-0.074723114	5	1.10E+00
19	9.39E-06	1	19	2.14E-06
9	6.41E-01	0.306168713	9	1.47E-01
2	1.36E-01	0.686119948	2	1.05E-01
7	5.41E-02	0.765347466	7	1.52E-02
9	3.15E-01	2	9	4.37E-05
9	1.00E-01	0.11620136	9	4.99E-01
9	4.87E-01	0.41503488	9	7.28E-02
6	5.21E-01	0.898623598	6	1.13E-02
8	2.86E-01	0.36770856	8	1.12E-01
10	2.71E-05	0.115858953	10	5.04E-01
6	1.56E-01	1	6	4.96E-03
5	7.83E-01	0.682773368	5	4.30E-02
6	3.29E-01	0.747526438	6	2.33E-02
42	4.14E-03	0.172983715	42	1.59E-01
5	2.52E-02	-0.822488337	5	2.68E+01
8	3.97E-01	-0.217327155	8	3.55E+00
2	3.85E-01	-0.03450082	2	7.08E-01
8	3.01E-01	-0.04074783	8	1.25E+00
21	6.78E-03	0.474314363	21	5.28E-03
10	2.04E-02	0.398849853	10	6.98E-02
9	1.86E+00	-0.06681585	9	1.62E+00
3	6.70E-01	0.369844084	3	2.13E-01
5	8.24E-03	0.406159913	5	1.40E-01
6	1.43E-02	-0.133233068	6	1.63E+00
3	1.42E-01	-0.13557356	3	1.07E+00
42	2.13E-11	-0.030710896	42	2.27E+01
1	1.01E-01	0.777886605	1	1.17E-01
10	8.87E-02	-0.170451329	10	3.73E+00

7	1.65E-03	0.059757125	7	6.66E-01
12	1.26E+00	-0.188508562	12	5.97E+00
27	8.76E-05	0.852961961	27	3.72E-06
8	2.42E-03	0.281966337	8	1.86E-01
3	1.42E-01	0.31588882	3	2.53E-01
6	1.41E-01	-1	6	2.22E+02
11	5.40E-04	0.6040678	11	1.29E-02
5	1.06E-01	0.642359545	5	5.12E-02
28	9.21E-10	0.824603769	28	4.04E-06
6	6.52E-02	0.016517331	6	7.90E-01
9	1.22E-03	0.282913184	9	1.71E-01
5	1.30E-03	0.749777043	5	3.23E-02
2	3.03E-01	0.208722515	2	3.71E-01
22	3.70E-06	0.938204106	22	8.37E-06
1	7.17E-02	0.3672007	1	2.78E-01
20	1.98E-10	-0.252084272	20	5.22E+01
9	4.80E+00	-0.884465536	9	3.16E+02
9	8.48E-01	-0.805773575	9	1.90E+02
1	4.42E-01	0.013169698	1	5.85E-01
9	3.67E-03	0.139987967	9	4.28E-01
5	3.92E-01	0.392923488	5	1.49E-01
12	5.26E-01	-0.319514663	12	1.72E+01
6	1.07E-04	0.227439569	6	2.86E-01
10	5.10E-02	-0.297352747	10	9.05E+00
21	1.93E+03	-0.601353519	21	5.92E+03
9	7.50E-01	0.215531963	9	2.63E-01
10	4.01E-01	-0.195002883	10	4.42E+00
3	3.65E-01	-0.712612324	3	6.73E+00
3	8.31E-01	-0.117344243	3	1.01E+00
6	8.28E+00	-1	6	1.67E+02
17	4.22E-09	2	17	1.53E-09
4	2.34E-01	0.005403164	4	7.28E-01
5	6.13E-02	0.091840389	5	5.38E-01
2	5.87E-01	0.179815695	2	4.01E-01
23	3.40E-04	0.201527567	23	1.67E-01
11	7.70E-02	-0.772462601	11	4.08E+02
98	2.15E-07	0.102814172	98	1.98E+00
14	8.60E-01	0.55696052	14	9.16E-03
39	2.43E+00	0.014360558	39	6.28E+00
5	4.84E-01	0.113359291	5	4.91E-01
10	2.21E-01	0.733861197	10	6.72E-03
7	1.16E-02	0.051001142	7	6.98E-01
5	1.15E-01	-0.032665447	5	9.17E-01
20	6.64E-03	0.561094094	20	2.17E-03
3	1.92E-01	-0.384862153	3	2.37E+00
22	2.06E+01	0.36138097	22	2.01E-02
15	1.01E+01	0.567914143	15	6.53E-03

5	4.03E-01	-0.585523726	5	9.75E+00
4	1.17E-02	-0.087081017	4	1.03E+00
29	6.39E+04	0.624798697	29	8.77E-05
17	5.77E+01	0.533173373	17	5.91E-03
6	7.45E-03	-0.015213187	6	9.20E-01
17	1.02E+00	-0.12130895	17	6.85E+00
3	5.63E-01	0.339092832	3	2.35E-01
24	7.06E-01	1	24	1.81E-09
18	8.54E-04	-0.378159791	18	1.44E+02
6	2.16E-02	0.364024409	6	1.48E-01
8	2.30E-04	0.815436023	8	8.00E-03
9	1.16E-03	0.600375919	9	2.21E-02
10	6.88E-01	0.070250586	10	6.94E-01
11	6.99E-01	0.330607321	11	1.01E-01
5	8.36E-02	-0.127324416	5	1.37E+00
2	2.03E-01	0.145278833	2	4.39E-01
12	1.52E+00	2	12	3.23E-09
16	8.65E-03	0.457375207	16	1.60E-02
3	9.87E-02	-0.260182787	3	1.59E+00
11	4.30E+00	0.039026813	11	9.06E-01
5	1.61E+00	-0.119364845	5	1.33E+00
20	1.65E-02	0.339664561	20	3.38E-02
16	1.02E-04	0.355955725	16	4.51E-02
6	3.36E-02	1	6	5.05E-03
6	3.57E-01	0.518008065	6	7.05E-02
3	1.01E+00	0.609565966	3	9.90E-02
2	7.74E-01	-0.060844318	2	7.59E-01
11	4.49E-03	0.369557342	11	7.52E-02
3	1.74E-01	0.444199754	3	1.68E-01
21	3.94E-05	-0.076002444	21	6.57E+00
3	4.68E-02	-0.477621947	3	3.18E+00
5	4.08E-02	2	5	5.83E-04
10	5.06E-03	0.814027557	10	3.84E-03
7	1.22E-02	-0.213362606	7	2.88E+00
1	5.38E-01	3.33E-05	1	6.02E-01
23	1.37E-08	0.532460251	23	1.61E-03
8	3.34E-03	-0.900028527	8	2.00E+02
16	6.25E-05	0.527123643	16	7.82E-03
21	3.74E-06	0.50517949	21	3.54E-03
32	2.91E-05	0.402825496	32	2.61E-03
4	1.86E-01	0.004016691	4	7.32E-01
51	1.59E+08	-0.238680256	51	2.16E+04
17	1.09E+04	0.072019901	17	8.52E-01
4	3.50E+00	-0.516951905	4	5.12E+00
10	2.04E+01	-0.205063684	10	4.75E+00
1	5.36E-01	0	1	6.02E-01
3	7.09E-01	0.035449656	3	6.19E-01

10	1.44E-02	0.215587305	10	2.51E-01
4	4.78E-01	0.426892672	4	1.51E-01
14	7.12E-01	0.180242604	14	2.88E-01
3	1.72E-01	0.372384212	3	2.11E-01
16	1.35E+02	-0.193781713	16	1.26E+01
78	1.08E+03	0.186625351	78	3.76E-02
8	5.23E-01	0.462403626	8	6.43E-02
24	6.51E+03	-0.033144217	24	4.91E+00
4	1.14E+01	-0.348532819	4	2.73E+00
9	2.71E-01	0.087354636	9	6.01E-01
20	2.76E-02	-0.006131709	20	2.47E+00
8	2.56E+00	0.684430132	8	1.73E-02
21	1.60E-03	-0.009685912	21	2.78E+00
10	6.99E-03	-0.535708485	10	4.78E+01
6	5.67E-04	-0.234471304	6	2.65E+00
7	8.77E-03	0.033774344	7	7.66E-01
11	9.23E-02	0.158604151	11	3.68E-01
11	1.12E-01	0.134535638	11	4.41E-01
11	9.18E+00	-0.108595359	11	2.75E+00
11	2.86E+01	-0.431271995	11	3.12E+01
4	9.60E-01	0.019776049	4	6.90E-01
1	5.77E-01	2.51E-05	1	6.02E-01
5	3.04E+02	-0.313242544	5	3.04E+00
10	4.36E-01	-0.092579714	10	2.16E+00
3	1.11E+00	0	3	6.93E-01
47	5.60E-07	-0.391256402	47	6.01E+05
12	2.58E-03	-0.266374537	12	1.12E+01
3	5.36E-01	-0.041240607	3	7.90E-01
18	4.70E-01	0.25908501	18	1.06E-01
7	3.96E+02	-0.359898375	7	6.32E+00
14	2.19E+06	-0.699277693	14	9.05E+02
10	2.10E+00	0.17309907	10	3.38E-01
1	5.36E-01	0	1	6.02E-01
2	4.73E+00	-0.11246289	2	8.70E-01
23	2.95E+01	-0.476964972	23	2.28E+03
21	1.11E-02	0.223721481	21	1.35E-01
3	5.33E+00	-0.007783661	3	7.10E-01
25	8.40E+04	1	25	4.96E-08
6	2.89E+02	0.460267476	6	9.31E-02
4	4.46E+01	-0.847202319	4	1.76E+01
11	2.95E+02	0.030587391	11	9.65E-01
33	3.27E+00	-0.324167419	33	3.13E+03
15	6.33E-02	-1	15	1.29E+05
5	4.18E+01	-2	5	1.84E+03
9	3.74E-01	-0.994652432	9	6.42E+02
6	5.79E-01	-0.184096938	6	2.08E+00
3	5.42E-01	-1	3	1.81E+01

5	1.91E+00	-0.324745385	5	3.20E+00
7	2.12E+01	-1	7	5.56E+02
8	1.57E-01	-0.162153499	8	2.56E+00
27	4.05E+02	0.601846292	27	2.18E-04
10	3.22E+00	0.907104518	10	2.00E-03
17	9.26E+01	0.128414378	17	4.64E-01
13	3.98E-04	0.627586928	13	6.28E-03
10	1.58E-03	0.598801175	10	1.73E-02
13	7.13E+01	-0.247130184	13	1.18E+01
10	2.38E+00	1	10	9.56E-05
11	4.19E+03	1	11	3.58E-04
16	1.34E+04	-0.102169401	16	4.92E+00
28	1.09E+05	-0.465083298	28	9.68E+03
36	8.36E-06	0.002223155	36	6.72E+00
11	1.16E+00	-0.203257677	11	5.61E+00
4	9.42E-01	-0.408858404	4	3.42E+00
51	7.44E+02	0.230118475	51	2.43E-02
4	1.46E-01	-0.098712719	4	1.07E+00
4	2.48E-01	-0.011672507	4	7.76E-01
2	7.48E-02	0.39656898	2	2.26E-01
8	2.77E-04	0.466661276	8	6.27E-02
6	5.73E-03	0.40801093	6	1.20E-01
10	1.98E+01	0.307701706	10	1.32E-01
3	2.26E-01	-0.206012631	3	1.34E+00
5	7.63E-03	0.550993231	5	7.56E-02
20	8.83E+00	-0.078487873	20	6.06E+00
1	5.24E-01	-0.030206086	1	6.41E-01
13	2.69E+00	0.436851749	13	3.25E-02
25	6.11E-02	1	25	1.63E-08
4	4.50E-01	-0.294185077	4	2.23E+00
14	3.19E+00	-0.388132605	14	5.24E+01
4	2.72E+01	0.047879126	4	6.22E-01
22	1.06E+01	1	22	2.06E-07
10	1.48E-02	0.404826232	10	6.70E-02
20	8.08E+00	0.31593992	20	4.54E-02
13	6.82E+05	-0.33610617	13	2.53E+01
3	2.45E+00	-0.397892183	3	2.47E+00
4	7.28E-01	-0.17218818	4	1.41E+00
9	7.70E-01	0.380103635	9	9.12E-02
6	8.35E-01	0.2642704	6	2.39E-01
7	9.83E+01	0.424634101	7	9.42E-02
5	2.78E+00	-0.236085802	5	2.19E+00
4	4.28E+00	-0.35384542	4	2.78E+00
9	1.52E+01	0.357764703	9	1.05E-01
21	1.23E+02	0.088942671	21	7.76E-01
35	5.05E-13	0.343767779	35	5.63E-03
3	2.88E-02	-0.508559877	3	3.51E+00

20	4.17E-11	0.913480313	20	2.73E-05
61	1.46E-11	0.19156053	61	5.36E-02
4	8.16E-03	0.38562727	4	1.76E-01
37	2.74E+01	-0.259504167	37	2.07E+03
6	2.32E+00	-0.811251373	6	4.26E+01
12	7.75E-01	-0.533126487	12	9.64E+01
8	1.32E+02	0.130545416	8	4.56E-01
9	5.02E+00	0.109791753	9	5.21E-01
2	1.87E+01	0.609856944	2	1.28E-01
15	2.16E+01	0.636772501	15	3.35E-03
11	2.57E-04	-0.466922126	11	4.09E+01
26	1.01E+00	2	26	4.50E-11
4	5.07E+00	0.990124165	4	1.84E-02
1	8.59E-01	0.197595004	1	3.97E-01
1	6.66E-01	0.09463595	1	4.93E-01
21	2.92E-01	0.21476509	21	1.52E-01
14	3.02E-05	0.81571764	14	8.57E-04
13	4.41E+01	-0.666068361	13	4.34E+02
17	3.59E+02	0.512592096	17	7.37E-03
11	7.79E-03	3	11	1.15E-09
12	1.73E-02	-0.010032661	12	1.41E+00
9	2.16E-02	0.63868616	9	1.72E-02
5	2.66E-04	0.436947224	5	1.23E-01
8	5.64E-02	0.433714617	8	7.61E-02
11	6.62E-01	0.441082389	11	4.39E-02
8	1.22E-03	2	8	5.17E-05
3	7.22E-02	-0.158733454	3	1.15E+00
5	1.52E-01	-0.374835219	5	3.96E+00
10	1.16E-02	0.548640809	10	2.45E-02
5	4.26E-01	0.549121936	5	7.62E-02
5	6.50E+00	-0.067809863	5	1.07E+00
3	2.17E+00	-0.865349302	3	1.10E+01
8	6.69E+00	-0.416982108	8	1.15E+01
11	1.05E-02	-0.045466233	11	1.71E+00
16	1.64E+03	-0.108590931	16	5.25E+00
7	6.03E+00	-0.071382868	7	1.35E+00
36	9.50E+00	0.587421812	36	2.95E-05
6	2.51E+00	0.226395911	6	2.87E-01
5	9.00E-01	-0.076327474	5	1.10E+00
3	1.07E+00	0.545294137	3	1.22E-01
6	3.30E-01	0.061198138	6	6.37E-01
21	2.57E-02	-0.631771818	21	8.77E+03
5	6.54E-01	-2	5	5.83E+02
7	2.61E+02	-1	7	2.07E+02
33	1.26E-03	2	33	1.21E-14
13	5.82E-02	0.158005465	13	3.59E-01
8	1.00E-02	-0.469060175	8	1.57E+01

16	1.75E-01	0.723914725	16	1.04E-03
13	2.03E-02	0.441394416	13	3.12E-02
21	1.49E+04	-0.304462877	21	1.27E+02
23	4.67E-02	0.125397325	23	4.86E-01
7	1.25E-01	-0.066872628	7	1.31E+00
11	8.13E+00	-0.122212591	11	3.05E+00
1	6.44E-01	-0.112079605	1	7.62E-01
2	7.51E-02	-0.25683161	2	1.28E+00
35	1.16E-07	0.350699846	35	4.88E-03
8	4.32E-02	-0.055155698	8	1.36E+00
16	3.44E+00	0.348899497	16	4.85E-02
27	1.68E-04	0.394232482	27	6.29E-03
17	3.76E-02	-0.474894037	17	3.10E+02
8	2.71E+00	-0.479488369	8	1.67E+01
11	8.49E-02	-0.690079623	11	2.19E+02
24	1.10E+03	-0.703769018	24	8.64E+04
12	1.47E+01	-0.343175945	12	2.08E+01
11	4.78E+02	-0.435439791	11	3.22E+01
13	1.81E+00	-0.193680261	13	7.42E+00
3	6.16E-01	-0.425235638	3	2.69E+00
13	1.72E+01	-0.259372505	13	1.31E+01
19	2.10E-03	0.919662876	19	3.89E-05
15	1.65E+02	-0.038344216	15	2.34E+00
26	3.10E+01	-0.271459324	26	2.45E+02
8	1.81E-02	1	8	2.13E-03
22	3.23E-03	1	22	2.08E-08
39	3.46E-12	0.461338203	39	2.45E-04
26	5.30E+05	0.576101539	26	4.21E-04
8	7.13E+04	2	8	6.07E-05
2	2.18E+00	-0.038165534	2	7.14E-01
19	2.89E-01	0.402562888	19	1.80E-02
16	2.48E+01	-0.198009115	16	1.31E+01
18	4.25E-02	-0.019236623	18	2.47E+00
23	3.56E-05	0.343000634	23	2.29E-02
14	2.16E-03	0.722495072	14	2.01E-03
7	2.24E+00	0.735461502	7	1.78E-02
12	4.47E-01	1	12	2.00E-04
3	6.45E-01	2	3	1.20E-03
1	5.85E-01	0.161529502	1	4.28E-01
5	3.20E+00	0.106035889	5	5.07E-01
3	1.55E-01	-0.28943181	3	1.74E+00
14	3.39E+02	0.038409281	14	1.06E+00
12	1.41E-03	0.535966616	12	1.72E-02
25	9.98E-01	1	25	2.99E-08
14	3.39E-07	0.902404369	14	3.88E-04
4	1.03E-03	3	4	4.73E-05
3	4.10E-02	2	3	2.29E-03

14	8.24E-01	-0.342419717	14	3.45E+01
2	5.88E-01	-0.234410568	2	1.20E+00
1	7.98E+01	-1	1	6.68E+00
12	8.61E-01	-0.940402045	12	2.58E+03
23	3.09E-07	0.314505436	23	3.42E-02
28	1.82E+02	-0.249256373	28	2.61E+02
4	2.31E+01	-0.581283288	4	6.51E+00
15	9.32E+05	-0.856382462	15	6.51E+03
8	6.83E-01	0.7001841	8	1.58E-02
11	7.41E-02	0.34605471	11	8.98E-02
6	4.82E-03	0.409822126	6	1.19E-01
48	3.77E+04	-0.416069587	48	1.58E+06
4	1.42E+01	-1	4	3.96E+01
6	1.56E+00	-0.177775902	6	2.01E+00
3	5.93E-01	-0.135057693	3	1.07E+00
4	4.98E-01	-0.226120375	4	1.73E+00
6	3.05E+00	-0.544636852	6	1.18E+01
5	1.56E+00	-0.103127123	5	1.24E+00
5	2.00E+01	-0.590989992	5	9.98E+00
6	7.37E+00	-0.257312716	6	2.95E+00
6	5.61E+00	-0.83353741	6	4.74E+01
5	3.89E+01	0.206544326	5	3.30E-01
13	2.68E+00	-0.89120169	13	3.02E+03
11	4.75E-01	0.566867205	11	1.70E-02
5	7.01E-02	0.055094401	5	6.30E-01
9	4.52E-02	0.38267578	9	8.97E-02
3	3.11E-01	0.721279634	3	6.93E-02
13	4.35E+03	-0.700547565	13	5.84E+02
2	2.63E-02	0.14857012	2	4.36E-01
20	3.45E-04	0.319626822	20	4.34E-02
23	2.47E-06	-0.14954691	23	2.30E+01
21	5.03E+03	-0.730160388	21	3.14E+04
13	1.42E-01	-0.078818267	13	2.76E+00
7	3.42E-02	1	7	1.86E-03
11	4.63E-01	0.636569474	11	1.01E-02
6	2.36E-02	-0.428444736	6	6.74E+00
2	1.15E-02	0.304774715	2	2.88E-01
3	2.75E-02	0.583642016	3	1.08E-01
53	1.11E-05	0.321722167	53	1.36E-03
12	8.74E+00	0.641008524	12	7.39E-03
28	1.28E+00	0.739015967	28	1.70E-05
6	2.86E-04	3	6	1.31E-06
10	4.51E-02	1	10	6.44E-04
6	2.08E-02	1	6	6.67E-03
6	2.15E-01	1	6	3.06E-03
8	5.73E-03	2	8	7.32E-06
32	5.89E-06	0.410394828	32	2.26E-03

6	3.53E+00	0.803096128	6	1.79E-02
24	5.03E+08	0.901462292	24	5.95E-06
12	6.39E+00	3	12	8.69E-11
15	9.85E-06	0.126862698	15	4.70E-01
8	5.56E-03	-0.429523899	8	1.24E+01
8	1.56E+02	-0.773495418	8	9.46E+01
17	6.97E-02	0.758556749	17	5.20E-04
22	2.38E+00	0.184631765	22	2.18E-01
8	2.71E-01	-0.263694315	8	4.67E+00
5	4.73E-02	0.337599646	5	1.88E-01
7	8.34E-03	0.586466322	7	3.96E-02
18	6.72E+00	0.452788013	18	1.18E-02
32	5.41E+02	1	32	2.87E-12
24	1.72E+00	3	24	8.98E-18
4	4.33E-01	1	4	9.17E-03
15	1.56E-03	1	15	7.51E-05
11	5.05E-01	0.76735164	11	3.77E-03
7	1.44E-01	0.842743522	7	1.00E-02
23	5.83E-06	0.110548156	23	5.99E-01
9	2.72E-01	0.239484547	9	2.26E-01
7	5.90E+01	0.739121623	7	1.75E-02
7	1.98E+02	0.634436682	7	3.06E-02
9	6.73E-02	-0.507709221	9	2.78E+01
15	4.94E+01	-0.654475981	15	9.19E+02
9	3.75E+01	-0.27616435	9	6.26E+00
10	3.36E+01	-0.900825474	10	6.13E+02
22	5.49E+00	-0.112475671	22	1.20E+01
10	2.07E-01	2	10	5.90E-06
6	2.79E-01	0.205315752	6	3.18E-01
15	2.96E+05	-0.021496685	15	1.98E+00
4	1.91E+00	-0.45361291	4	4.04E+00
26	1.06E+02	-0.025124374	26	5.17E+00
9	2.59E+03	0.559796164	9	2.86E-02
9	2.43E-01	0.424435527	9	6.85E-02
4	7.34E-02	-0.140246984	4	1.25E+00
5	1.43E-02	-0.612723693	5	1.09E+01
14	4.58E-01	-0.317728741	14	2.75E+01
6	2.59E+01	-0.805857803	6	4.15E+01
11	4.97E-02	-0.287839599	11	1.06E+01
12	1.68E+00	-0.919075039	12	2.17E+03
19	1.42E+00	0.173554946	19	2.72E-01
17	4.24E-03	-0.560048222	17	7.77E+02
6	2.40E+02	-1	6	1.46E+02
1	5.51E-01	0.034794354	1	5.59E-01
12	7.50E-01	-0.234970117	12	8.69E+00
7	1.76E+01	0.08380119	7	5.86E-01
6	2.29E+00	0.019052445	6	7.80E-01

36	4.05E-06	0.920880901	36	2.61E-08
7	1.37E-01	0.404477479	7	1.05E-01
12	1.44E+02	-1	12	1.78E+04
4	5.54E-01	0.157818452	4	4.12E-01
11	5.18E-01	1	11	1.33E-04
26	4.93E-06	0.098024654	26	7.51E-01
2	5.25E-01	0	2	6.46E-01
11	6.14E-06	1	11	3.98E-04
43	3.45E-11	0.096718601	43	1.04E+00
3	2.66E-01	0.07151909	3	5.51E-01
85	4.94E-08	0.01840079	85	9.17E+01
22	1.01E-03	0.142472777	22	3.85E-01
6	1.03E-01	0.093483154	6	5.45E-01
9	9.73E+03	-0.329847097	9	8.85E+00
19	1.00E+04	-0.516779041	19	9.82E+02
6	1.47E-01	-0.512620135	6	1.01E+01
7	3.46E-03	0.648418013	7	2.84E-02
4	2.89E-01	0.684967034	4	5.76E-02
10	3.79E-02	0.869467607	10	2.61E-03
12	6.45E+00	-0.222412047	12	7.85E+00
7	2.80E-03	-0.358757384	7	6.28E+00
12	3.07E-01	0.755894748	12	2.92E-03
2	9.73E-03	-0.451093708	2	2.13E+00
5	2.90E+01	0.145963865	5	4.27E-01
3	1.39E-01	-0.003676469	3	7.01E-01
196	6.35E-56	-0.379043903	196	3.03E+23
11	3.85E-01	-0.176540389	11	4.59E+00
8	2.02E-01	-0.474565874	8	1.62E+01
40	1.54E-06	0.300285631	40	8.66E-03
2	4.58E-01	0.670694508	2	1.09E-01
6	9.29E-02	0.759236156	6	2.21E-02
73	1.26E-10	-0.262217415	73	4.59E+06
3	4.14E-01	-0.190022721	3	1.27E+00
5	2.02E-01	0.05937828	5	6.19E-01
13	1.39E-02	0.75749141	13	2.05E-03
5	3.29E-02	0.18043948	5	3.69E-01
7	5.73E-01	-0.165003423	7	2.22E+00
18	2.89E-03	-0.092922216	18	5.69E+00
2	5.60E-02	0.141183859	2	4.44E-01
5	1.44E-01	-0.39107996	5	4.24E+00
7	3.57E+00	0.273613934	7	2.12E-01
6	8.96E-02	-0.318790781	6	3.97E+00
2	7.22E-02	0.615973903	2	1.26E-01
13	2.64E-09	2	13	8.00E-07
15	8.64E-11	0.292516356	15	9.44E-02
4	3.26E-04	0.85235949	4	3.08E-02
10	4.56E-02	1	10	7.34E-04

2	1.46E-01	-0.025506957	2	6.91E-01
5	5.63E-02	-0.60469273	5	1.06E+01
5	3.06E-01	-0.756001282	5	2.02E+01
7	4.37E-01	-0.062337482	7	1.28E+00
21	2.46E-04	0.556462185	21	1.82E-03
15	1.67E-05	2	15	3.14E-10
17	1.25E-06	1	17	2.68E-06
11	6.10E-03	1	11	3.77E-05
11	4.64E-04	0.226062989	11	2.22E-01
8	1.23E+02	0.037993138	8	7.87E-01
9	6.42E+00	-0.248503621	9	5.24E+00
48	8.45E-13	0.647158887	48	2.88E-07
18	3.60E+00	0.385299213	18	2.53E-02
9	6.69E+02	0.724335696	9	9.92E-03
21	6.53E+00	0.546025195	21	2.08E-03
4	2.76E-02	3	4	3.36E-05
10	9.37E-04	3	10	2.12E-09
1	4.60E-01	0.706571278	1	1.36E-01
18	3.98E-03	-0.199228963	18	1.90E+01
10	1.84E-06	0.78498907	10	4.70E-03
3	7.70E-03	-0.806554251	3	9.09E+00
59	2.35E-08	0.47643614	59	4.05E-06
13	4.96E-01	-0.300168231	13	1.86E+01
22	2.04E-01	-0.173315595	22	2.73E+01
3	4.00E-01	-0.242537921	3	1.50E+00
10	4.81E-02	0.155572564	10	3.82E-01
30	3.96E-07	-0.03215425	30	8.20E+00
30	4.35E-01	-0.346256891	30	2.22E+03
9	1.36E+04	-0.85935911	9	2.68E+02
7	3.29E+00	-0.192505734	7	2.57E+00
13	5.38E+01	-0.779314209	13	1.15E+03
2	1.52E+00	-2	2	4.98E+01
3	2.04E-01	0.290106659	3	2.74E-01
5	5.76E-02	0.774680669	5	2.91E-02
2	5.64E-01	0.053307762	2	5.61E-01
1	5.36E-01	-0.030206086	1	6.41E-01
9	4.60E-03	-0.246013913	9	5.15E+00
5	1.57E-01	0.318218176	5	2.05E-01
11	9.96E-01	0.706613997	11	5.95E-03
6	8.29E-01	0.756267802	6	2.24E-02
7	1.85E+01	0.944043454	7	5.82E-03
7	4.56E-02	-0.110942153	7	1.66E+00
17	1.91E-03	0.46813697	17	1.19E-02
5	7.95E-01	-0.104892471	5	1.25E+00
11	5.00E+02	-1	11	4.88E+04
8	2.81E+00	-0.261200633	8	4.60E+00
7	1.39E+00	-0.691087082	7	3.73E+01

17	3.36E+02	0.108874812	17	5.73E-01
9	2.23E+00	0.429997534	9	6.61E-02
4	2.15E-02	-0.575877466	4	6.38E+00
12	4.44E-03	0.50708119	12	2.18E-02
6	1.20E-01	0.166255539	6	3.84E-01
5	1.22E-02	0.85564585	5	2.06E-02
11	8.09E+00	0.144765241	11	4.09E-01
12	1.89E-01	0.006064427	12	1.24E+00
4	2.64E-01	0.026082999	4	6.74E-01
14	2.49E-01	0.527024824	14	1.20E-02
9	1.07E-01	0.823270902	9	5.24E-03
6	1.26E-01	0.267279991	6	2.36E-01
15	1.48E-08	0.817185049	15	5.83E-04
26	5.31E-04	0.785530029	26	1.58E-05
12	5.42E-02	-0.245165338	12	9.43E+00
12	2.67E+00	0.347166386	12	7.91E-02
11	1.39E+04	0.618356645	11	1.16E-02
11	1.72E+02	0.169566489	11	3.39E-01
11	1.75E-05	2	11	2.51E-08
4	6.53E-01	0.087110331	4	5.37E-01
3	6.72E+00	1	3	1.33E-02
3	2.57E+00	2	3	4.44E-04
3	1.37E-02	2	3	2.88E-03
6	5.75E-04	1	6	7.45E-04
3	1.04E-01	0.194791547	3	3.72E-01
15	2.04E-02	0.301288116	15	8.67E-02
3	2.47E-01	0.662931687	3	8.35E-02
7	1.63E+01	1	7	6.83E-04
3	8.68E-03	2	3	5.62E-04
2	7.54E-04	2	2	2.16E-03
10	4.10E-02	-0.668489132	10	1.21E+02
5	6.74E-01	-0.305567093	5	2.94E+00
142	1.62E-11	0.26984319	142	7.54E-06
3	5.45E-01	-0.581544598	3	4.43E+00
14	1.29E+01	0.054958699	14	9.07E-01
6	3.14E-05	3	6	5.70E-07
26	6.18E-02	1	26	3.10E-10
11	2.66E-04	-0.436983088	11	3.26E+01
6	1.71E-02	6.30E-05	6	8.55E-01
11	3.14E-03	-0.099269923	11	2.57E+00
15	1.37E-01	0.136836121	15	4.27E-01
9	3.42E-03	-0.166423649	9	3.09E+00
11	9.51E-02	0.44643323	11	4.22E-02
4	4.26E-01	-0.747708695	4	1.21E+01
7	4.68E-03	0.432314517	7	9.04E-02
7	1.46E+01	0.055922167	7	6.80E-01
8	4.49E+00	-0.699166433	8	6.10E+01

13	1.01E+03	-0.776162314	13	1.12E+03
26	1.57E-02	-0.361967222	26	1.01E+03
15	6.66E-01	-0.232798085	15	1.54E+01
5	2.17E-01	0.127194808	5	4.63E-01
10	2.59E-01	1	10	8.58E-04
8	1.92E-02	0.262949477	8	2.09E-01
7	2.41E-02	0.308475072	7	1.76E-01
9	4.64E-03	1	9	1.64E-03
6	1.02E-02	0.322139927	6	1.81E-01
68	8.12E-10	0.455692036	68	1.65E-06
5	2.27E-02	0.474956037	5	1.05E-01
1	1.12E-01	-0.449968586	1	1.55E+00
6	6.86E-04	1	6	1.25E-03
8	9.26E-04	-0.153749608	8	2.44E+00
13	1.14E+04	0.47178099	13	2.40E-02
9	4.64E+00	2	9	4.76E-05
6	1.41E+00	0.202988356	6	3.22E-01
29	2.42E+02	0.270972472	29	3.98E-02
22	5.68E-04	0.909762828	22	1.23E-05
15	7.96E-05	2	15	1.06E-09
13	2.31E-04	-0.432044005	13	5.78E+01
6	2.52E-01	0.161563479	6	3.93E-01
6	1.02E-03	0.742090501	6	2.40E-02
5	1.25E-01	0.903430116	5	1.68E-02
18	9.03E-03	0.68439622	18	8.56E-04
9	6.71E-05	0.428567388	9	6.67E-02
8	1.81E+00	0.014233239	8	9.05E-01
8	1.26E-01	0.437374393	8	7.45E-02
8	9.70E-03	-0.204266229	8	3.29E+00
8	1.00E+02	-0.135496088	8	2.19E+00
3	2.56E+00	-0.314977511	3	1.89E+00
2	4.43E+00	-0.061748845	2	7.61E-01
5	1.06E+00	-0.369106667	5	3.86E+00
17	8.33E-02	0.697300827	17	1.01E-03
5	1.69E-02	0.399895562	5	1.44E-01
11	1.37E-03	0.269550777	11	1.60E-01
4	4.77E-02	0.348289004	4	2.02E-01
6	1.64E-03	0.779936366	6	2.00E-02
21	2.37E-08	0.831239382	21	5.19E-05
14	1.16E-02	-0.197369901	14	9.14E+00
8	9.42E+00	0.805577398	8	8.48E-03
7	6.58E-01	-0.376534627	7	6.90E+00
1	1.62E-01	0.48597406	1	2.16E-01
1	5.07E-01	-0.414819542	1	1.44E+00
4	3.11E-01	0.747062137	4	4.57E-02
1	2.24E-01	-0.15812904	1	8.40E-01
3	2.64E-01	-0.633912112	3	5.24E+00

8	2.24E-03	-0.184503564	8	2.92E+00
5	1.45E-01	0.334301753	5	1.91E-01
46	1.38E+11	-0.101571368	46	2.10E+02
13	1.00E-02	1	13	3.95E-05
4	1.33E-01	-0.334500323	4	2.59E+00
14	6.06E+02	0.194689583	14	2.52E-01
28	2.22E-01	0.724368754	28	2.17E-05
16	1.81E-03	0.27206417	16	1.07E-01
14	5.45E+01	0.027456752	14	1.17E+00
1	1.35E-01	0.17272991	1	4.18E-01
13	1.47E+01	-0.568391297	13	1.87E+02
29	6.54E-09	0.374788917	29	6.61E-03
6	1.41E-01	0.197554611	6	3.30E-01
4	6.29E-01	-0.001376838	4	7.47E-01
3	5.77E-01	0	3	6.93E-01
6	4.61E-01	-0.538382577	6	1.14E+01
5	1.95E+00	-0.33977483	5	3.41E+00
7	8.71E-02	2	7	8.56E-05
8	3.57E-02	1	8	1.71E-03
20	2.45E-05	0.149080935	20	3.60E-01
7	1.56E-01	-1	7	2.08E+03
24	1.68E-03	0.606246555	24	4.40E-04
6	1.79E-02	0.359552706	6	1.51E-01
18	6.66E+02	-0.258892815	18	3.73E+01
8	1.96E+00	-0.167014751	8	2.64E+00
3	3.77E-01	-1	3	1.76E+01
2	4.69E-01	0	2	6.46E-01
4	4.49E+00	-0.853966625	4	1.80E+01
82	1.25E+06	-0.453048691	82	2.03E+11
10	1.41E-15	2	10	3.24E-07
7	7.17E-01	-1	7	1.50E+03
20	4.94E-04	0.142524424	20	3.90E-01
2	2.80E-02	-0.413450999	2	1.93E+00
38	3.48E+05	-0.438539391	38	1.35E+05
18	5.06E+00	-0.037185259	18	3.03E+00
50	3.95E-07	0.493699765	50	1.34E-05
22	7.88E+01	-0.713369028	22	3.99E+04
3	5.96E+00	-0.821162774	3	9.52E+00
61	8.45E-05	0.862144059	61	4.38E-12
1	2.34E-01	-0.293812943	1	1.12E+00
5	1.21E-01	-0.27530972	5	2.59E+00
3	9.05E-01	0.47565215	3	1.52E-01
51	1.45E+09	-0.376245663	51	1.20E+06
15	3.88E+03	1	15	2.54E-06
3	7.02E-02	0.100584448	3	5.03E-01
12	5.37E-01	-0.1030877	12	3.00E+00
5	3.96E-03	0.373840967	5	1.61E-01

6	5.80E-03	2	6	2.27E-04
4	5.75E-01	2	4	1.15E-03
7	5.82E-05	2	7	5.99E-05
2	1.85E-02	0.722302258	2	9.53E-02
9	1.49E+00	0.041958269	9	8.06E-01
16	4.17E+00	-0.628415828	16	1.08E+03
5	5.70E-01	-0.304462471	5	2.93E+00
10	9.91E-03	-0.633747023	10	9.49E+01
25	2.23E-07	2	25	3.81E-10
7	5.96E-02	0.394297551	7	1.11E-01
3	4.34E-01	-0.281112335	3	1.70E+00
4	1.06E-02	0.256048556	4	2.86E-01
3	1.14E-02	1	3	1.19E-02
4	7.58E-04	0.984903723	4	1.88E-02
5	5.44E-04	0.229999312	5	2.98E-01
3	1.71E-01	0.31790484	3	2.51E-01
3	9.42E-02	1	3	2.55E-02
2	6.47E-01	1	2	1.75E-02
2	5.71E-01	0.097094924	2	4.99E-01
9	4.53E+01	0.226146516	9	2.46E-01
8	1.92E+01	0.198422707	8	3.05E-01
10	2.31E+00	-0.605152062	10	7.77E+01
5	1.83E-05	-0.145608582	5	1.49E+00
14	1.88E-03	0.311456968	14	8.67E-02
6	1.09E-03	0.607800998	6	4.58E-02
27	1.96E-08	1	27	2.01E-09
6	1.80E-01	-0.046678211	6	1.07E+00
2	5.87E-01	-0.480920862	2	2.31E+00
7	6.79E+00	-0.880262352	7	1.03E+02
11	2.14E+01	-0.106404902	11	2.71E+00
19	1.92E+03	-0.921278615	19	1.19E+05
3	1.83E-02	-0.223235987	3	1.41E+00
4	3.09E-01	-0.691053361	4	9.81E+00
4	7.55E-02	-0.325050061	4	2.50E+00
20	1.29E+00	0.107147635	20	6.05E-01
21	6.06E-02	0.138780969	21	4.07E-01
5	1.26E-01	0.157697396	5	4.06E-01
2	2.27E-01	0.753525466	2	8.77E-02
8	4.27E-01	-0.157562015	8	2.49E+00
20	5.28E-03	0.109920758	20	5.85E-01
16	5.24E-05	1	16	2.18E-06
3	4.96E-01	0.126352656	3	4.63E-01
1	5.36E-01	0	1	6.02E-01
15	1.71E+00	0.17800733	15	2.87E-01
5	1.15E+00	2	5	1.29E-04
5	1.93E-01	0.882185455	5	1.83E-02
10	5.41E-04	0.976053241	10	1.24E-03

13	2.17E-01	0.333768477	13	7.89E-02
4	3.47E-01	0.039893981	4	6.40E-01
6	1.20E-01	-0.7299384	6	2.88E+01
6	3.50E-03	-0.432273522	6	6.86E+00
8	5.96E-07	1	8	3.97E-04
10	6.83E-06	0.570933222	10	2.10E-02
4	4.60E-02	0.607044798	4	7.71E-02
3	1.06E-01	0.524978531	3	1.30E-01
11	5.15E-01	2	11	4.12E-06
20	8.87E-02	1	20	2.85E-07
6	1.02E-03	2	6	5.91E-04
26	4.53E-06	0.582641957	26	3.80E-04
14	1.52E-02	0.904371429	14	3.81E-04
10	2.69E-01	-0.095748012	10	2.21E+00
7	3.65E+01	-0.412811044	7	8.39E+00
9	5.28E-01	-0.113063192	9	2.19E+00
15	3.89E-06	1	15	4.54E-06
8	4.63E-02	0.292511937	8	1.75E-01
19	1.20E-02	0.662740219	19	8.20E-04
10	2.90E-03	-0.960989018	10	9.33E+02
9	3.31E-03	-0.425347183	9	1.64E+01
6	4.69E-04	-0.018983518	6	9.37E-01
6	2.02E+00	-0.741446252	6	3.04E+01
8	2.91E+00	-0.102328778	8	1.80E+00
12	9.73E+01	-0.267226933	12	1.13E+01
2	1.24E+00	-0.588633722	2	3.07E+00
3	1.25E-03	1	3	9.08E-03
6	6.02E-03	1	6	1.28E-03
9	2.17E-02	1	9	2.87E-04
6	7.14E-01	2	6	1.14E-04
10	4.56E+00	2	10	4.08E-08
10	2.02E-04	1	10	3.61E-04
37	8.89E-03	0.068021708	37	1.74E+00
10	2.70E-01	-0.366765035	10	1.47E+01
7	1.23E+00	0.208471773	7	3.00E-01
8	7.43E-02	0.630599416	8	2.38E-02
7	1.55E-02	0.431980942	7	9.06E-02
3	4.14E-02	-0.768578136	3	8.05E+00
3	5.74E-01	0.278772936	3	2.85E-01
3	5.91E-01	0	3	6.93E-01
6	1.07E-03	0.005010677	6	8.35E-01
18	6.00E-06	1	18	1.56E-05
6	3.69E-03	0.324394997	6	1.79E-01
42	2.47E-12	0.159391119	42	2.22E-01
2	5.51E-01	0.484089809	2	1.79E-01
4	8.40E-01	0.442291838	4	1.43E-01
14	3.82E-01	0.237589066	14	1.70E-01

2	7.49E-01	-0.317458047	2	1.50E+00
25	1.76E-06	-0.134279173	25	2.48E+01
1	5.36E-01	0	1	6.02E-01
12	5.43E-01	0.105579625	12	5.56E-01
4	1.23E-02	0.999607283	4	1.78E-02
6	2.06E-02	0.91049033	6	1.06E-02
9	4.25E-03	0.353651404	9	1.08E-01
10	9.04E-04	1	10	7.91E-05
45	2.52E-13	0.587489393	45	3.15E-06
2	5.61E-01	-0.016624053	2	6.75E-01
5	8.08E-04	-0.806864385	5	2.51E+01
43	1.00E+13	-0.915254199	43	8.91E+10
4	1.83E+00	-0.481312622	4	4.48E+00
10	5.88E-01	-0.80208124	10	3.07E+02
23	4.03E-05	-0.206855298	23	5.15E+01
10	1.17E+01	-1	10	2.82E+03
23	2.86E+03	-0.830458456	23	3.26E+05
12	4.23E-01	0.291133365	12	1.24E-01
4	6.54E-01	-0.121442248	4	1.17E+00
13	2.48E+03	-0.20477553	13	8.16E+00
5	1.28E-02	-0.364443007	5	3.79E+00
8	5.64E-01	-0.569121821	8	2.83E+01
14	5.75E+00	-0.154865822	14	6.20E+00
14	1.60E+03	-0.47516722	14	1.16E+02
4	5.31E-01	-0.360547727	4	2.86E+00
6	2.65E+01	-0.404462014	6	6.00E+00
5	2.31E-01	0.865165254	5	1.97E-02
8	1.78E+02	0.03639186	8	7.94E-01
8	5.80E-02	0.281554675	8	1.87E-01
4	2.88E-01	-0.217920394	4	1.68E+00
8	2.47E-01	0.02030732	8	8.73E-01
5	1.97E-02	1	5	9.47E-03
5	2.43E-01	0.233658764	5	2.94E-01
3	1.93E-01	-0.070219585	3	8.67E-01
2	1.24E-01	-0.612094064	2	3.27E+00
13	7.00E-03	0.446926329	13	2.98E-02
11	8.74E-02	-0.299892565	11	1.16E+01
31	4.18E+07	-0.826419445	31	1.95E+07
6	1.79E+01	-0.676928141	6	2.23E+01
7	1.79E+00	-0.362931853	7	6.42E+00
3	3.35E-01	-0.804762958	3	9.03E+00
6	1.85E-01	-0.456693264	6	7.72E+00
4	1.22E-01	0.312243323	4	2.32E-01
5	1.38E-01	0.041367738	5	6.68E-01
9	3.50E+01	0.312883145	9	1.41E-01
68	4.52E+00	-0.210283529	68	2.16E+05
63	3.91E-02	-0.139189748	63	6.78E+03

4	1.90E-01	0.179940882	4	3.80E-01
5	9.56E-02	-0.127705875	5	1.38E+00
9	3.25E+00	-0.152394721	9	2.82E+00
12	2.78E+00	-0.217035744	12	7.52E+00
17	2.58E-01	-0.213239604	17	1.85E+01
2	5.42E-01	-0.033584119	2	7.06E-01
3	3.51E+00	-0.515832391	3	3.59E+00
4	1.38E+00	-0.485125227	4	4.55E+00
1	5.60E-01	0	1	6.02E-01
3	1.14E-01	0.143564633	3	4.38E-01
10	1.27E-01	-0.110018912	10	2.44E+00
2	2.49E-01	-0.497080385	2	2.41E+00
10	1.63E-01	0.673376366	10	1.03E-02
3	5.62E-01	0.105039692	3	4.95E-01
3	5.93E-01	0	3	6.93E-01
4	6.24E-01	0	4	7.43E-01
4	6.24E-01	0	4	7.43E-01
1	5.36E-01	0	1	6.02E-01
2	1.36E+00	-0.193706724	2	1.08E+00
3	5.93E-01	0	3	6.93E-01
4	6.24E-01	0	4	7.43E-01
4	6.24E-01	0	4	7.43E-01
1	4.05E-01	0.107589584	1	4.80E-01
14	1.22E-03	0.905552285	14	3.77E-04
7	3.66E-02	-0.30238052	7	4.64E+00
13	4.09E-04	0.674691552	13	4.19E-03
27	3.88E+00	-0.508478535	27	1.42E+04
12	8.31E+00	-0.6410661	12	2.30E+02
13	4.56E-02	0.968667286	13	3.33E-04
28	2.17E-03	0.450188616	28	2.14E-03
29	3.44E+01	0.019181271	29	3.09E+00
4	1.69E-01	-0.048015494	4	8.89E-01
14	3.40E-03	-0.031144092	14	2.00E+00
1	5.72E-01	-0.058877232	1	6.81E-01
3	1.30E+00	2	3	2.32E-03
11	6.06E-02	2	11	1.43E-05
5	6.16E-02	0.866491778	5	1.96E-02
8	2.26E-02	0.430006181	8	7.78E-02
12	1.04E-01	0.222724398	12	2.16E-01
10	1.10E+00	-0.30654488	10	9.65E+00
22	1.05E+00	0.186444576	22	2.13E-01
4	1.23E+00	-0.007298466	4	7.64E-01
14	1.34E-03	0.191234963	14	2.61E-01
1	5.10E-01	-1	1	5.80E+00
9	4.20E-01	-0.111731453	9	2.17E+00
7	5.76E-03	0.74476316	7	1.69E-02
6	3.34E-01	-0.046521567	6	1.07E+00

18	3.23E-04	1	18	1.42E-06
15	1.61E+01	0.25550455	15	1.35E-01
3	3.27E+00	0.460311065	3	1.59E-01
29	1.83E-08	0.265828518	29	4.35E-02
3	5.21E-01	-0.007633379	3	7.10E-01
10	4.19E-01	-0.478626377	10	3.21E+01
6	1.51E+00	-0.235955959	6	2.67E+00
1	6.36E-01	-0.026464731	1	6.36E-01
56	8.11E-07	-0.320746692	56	8.04E+05
4	3.72E-02	0.281956667	4	2.59E-01
16	1.38E+06	-0.962688617	16	3.30E+04
5	1.05E+01	0.316657069	5	2.06E-01
19	7.25E-09	0.416940867	19	1.51E-02
4	3.41E-02	-0.433283061	4	3.75E+00
4	9.85E-03	1	4	1.59E-02
5	1.98E-01	-0.291394506	5	2.77E+00
5	5.88E-03	-0.20853829	5	1.94E+00
12	4.00E-02	-0.301779614	12	1.49E+01
6	1.66E+01	-0.97258659	6	9.27E+01
15	8.15E-05	-0.064648391	15	3.01E+00
1	3.68E-01	0.238112788	1	3.64E-01
2	4.61E-01	1	2	4.10E-02
9	1.53E+00	0.075490952	9	6.49E-01
13	2.11E+03	-1	13	5.31E+04
4	4.01E+00	0.278816084	4	2.62E-01
13	1.16E-01	0.561790529	13	1.11E-02
22	4.34E-01	0.459191561	22	5.37E-03
8	2.69E-01	0.00657103	8	9.47E-01
29	5.10E+00	-0.242844194	29	2.87E+02
10	4.70E-01	-0.156886429	10	3.39E+00
6	4.69E-01	-0.15947197	6	1.84E+00
12	7.22E-02	-0.647515467	12	2.43E+02
3	4.00E-01	0.027147983	3	6.35E-01
27	1.05E-13	0.804923106	27	8.11E-06
2	9.01E-05	4	2	3.72E-05
8	2.59E-08	2	8	1.02E-06
6	1.32E-06	2	6	1.24E-05
10	3.03E-06	4	10	3.26E-14
14	1.97E-03	-0.067419775	14	2.78E+00
3	2.55E-01	0.027382095	3	6.35E-01
12	4.10E-04	-0.239618879	12	9.02E+00
27	1.88E-15	1	27	2.17E-07
4	1.65E-02	0.712529958	4	5.20E-02
8	3.86E-04	1	8	2.40E-03
20	1.12E-02	0.834599804	20	7.28E-05
29	2.00E-01	-0.016149665	29	5.69E+00
2	4.98E-02	0.255658209	2	3.28E-01

13	2.61E+00	0.031034585	13	1.07E+00
22	3.66E+00	-0.016896454	22	3.31E+00
7	1.60E+00	-0.003537457	7	9.35E-01
15	3.34E-04	-0.327735162	15	3.86E+01
2	5.12E-01	0.009842876	2	6.29E-01
16	9.42E-02	0.195181528	16	2.34E-01
42	1.42E+02	0.5143814	42	3.93E-05
13	6.57E-02	0.237300299	13	1.81E-01
10	6.40E-04	-0.561350283	10	5.72E+01
7	9.95E-02	0.333326882	7	1.54E-01
29	2.19E-01	0.357994723	29	8.84E-03
14	5.03E-01	0.797424464	14	1.01E-03
13	4.61E+00	0.385019195	13	5.08E-02
9	2.59E-01	-0.053129259	9	1.49E+00
7	6.98E+00	-0.159496857	7	2.16E+00
30	1.07E+03	0.222130218	30	8.80E-02
3	4.49E+02	-0.888118713	3	1.18E+01
4	3.44E-01	0.55895911	4	9.22E-02
7	5.33E-01	0.626721498	7	3.19E-02
6	5.48E-02	0.545434746	6	6.18E-02
9	3.10E+02	-0.394196037	9	1.34E+01
19	1.79E+02	-0.576735506	19	2.00E+03
1	1.19E-01	-0.311121856	1	1.16E+00
38	5.15E+00	0.481533072	38	1.88E-04
1	9.48E-01	-0.037871526	1	6.52E-01
5	2.94E-02	-0.074071201	5	1.09E+00
7	2.27E+00	-0.172707464	7	2.32E+00
28	6.52E-10	0.05860867	28	1.50E+00
5	1.64E-03	-0.254898177	5	2.37E+00
11	1.45E+01	0.935243345	11	1.06E-03
7	4.32E-03	0.283650296	7	2.01E-01
22	3.15E+04	-0.649288007	22	1.68E+04
2	5.32E-01	-0.031377982	2	7.02E-01
11	1.05E-01	0.558420452	11	1.82E-02
8	7.42E-01	0.276095704	8	1.93E-01
4	1.10E-01	0.595587704	4	8.04E-02
21	1.99E-08	0.184544791	21	2.25E-01
8	7.76E-02	-0.392112542	8	9.96E+00
9	1.61E-02	0.791647744	9	6.43E-03
5	1.41E-01	0.687469849	5	4.22E-02
18	8.92E-03	0.563208425	18	3.38E-03
2	3.12E-01	1	2	4.03E-02
7	6.93E-01	0.476660629	7	7.13E-02
19	3.51E-03	0.206264383	19	1.84E-01
29	3.51E-11	2	29	1.82E-14
8	3.43E-02	-0.859081841	8	1.57E+02
16	3.10E+00	-0.464425812	16	2.01E+02

5	6.16E-01	-0.373984051	5	3.95E+00
6	1.04E+01	-0.482606988	6	8.75E+00
10	3.53E-02	-2	10	4.59E+04
6	6.44E-03	-0.88300262	6	6.02E+01
2	4.32E-01	-0.329518313	2	1.55E+00
19	6.68E-05	-0.036897036	19	3.30E+00
25	2.73E-02	-0.431983071	25	2.23E+03
15	3.33E-06	0.174530909	15	2.96E-01
5	2.49E-01	-1	5	9.83E+01
4	7.20E-01	-0.026893547	4	8.22E-01
21	8.13E+03	-0.577804299	21	4.36E+03
11	8.93E+00	-0.326674776	11	1.42E+01
9	2.02E-04	-0.50380836	9	2.71E+01
11	6.74E-06	2	11	6.58E-07
4	1.58E-01	0.353994615	4	1.98E-01
6	2.53E-02	0.631869016	6	4.07E-02
32	2.30E-05	0.69714507	32	9.98E-06
10	3.19E+00	0.107757804	10	5.34E-01
8	3.29E-01	1	8	1.76E-03
10	1.02E+00	0.319797569	10	1.21E-01
11	3.52E+00	0.378110064	11	7.05E-02
1	4.76E-01	0.01490241	1	5.83E-01
10	1.35E+00	0.441106663	10	5.20E-02
2	5.13E-01	0.582973977	2	1.38E-01
5	7.19E-01	-0.076963222	5	1.11E+00
5	7.44E-02	0.336396963	5	1.89E-01
23	1.11E+12	-0.485117963	23	2.56E+03
3	5.89E-01	0	3	6.93E-01
8	3.47E+00	-0.113384889	8	1.92E+00
2	3.70E-01	-0.725123389	2	4.41E+00
16	4.03E+01	-0.422384699	16	1.31E+02
10	5.11E+00	0.702778722	10	8.35E-03
22	1.88E+02	-0.018709923	22	3.39E+00
10	8.80E-01	0.854570899	10	2.89E-03
19	3.55E-01	0.767303246	19	2.37E-04
4	5.61E-02	0.69302615	4	5.59E-02
29	9.48E+02	-0.25126405	29	3.32E+02
2	1.34E-01	0.85951199	2	6.63E-02
7	4.89E-03	-0.310529988	7	4.85E+00
3	5.79E-02	-0.241915466	3	1.50E+00
3	1.84E-02	-0.671603816	3	5.91E+00
18	4.12E-02	0.607121315	18	2.05E-03
11	5.66E-02	1	11	3.47E-05
22	4.20E+00	-0.395090589	22	5.44E+02
6	1.72E-01	0.390315927	6	1.30E-01
7	4.83E-04	0.682731108	7	2.36E-02
5	5.51E-03	0.182959799	5	3.65E-01

14	2.00E-05	0.662210166	14	3.49E-03
6	2.45E-02	-0.830773557	6	4.68E+01
3	5.09E+00	0.20636504	3	3.59E-01
23	4.30E+01	-0.426541015	23	1.12E+03
28	2.77E-01	0.611877132	28	1.42E-04
4	2.10E+01	0.741772475	4	4.66E-02
24	1.39E-05	-0.381383201	24	7.87E+02
3	4.33E-03	-0.537319935	3	3.85E+00
10	8.93E-03	0.080756779	10	6.44E-01
2	9.68E-02	-0.449781518	2	2.13E+00
1	6.48E-01	-0.072097067	1	7.01E-01
3	5.67E+00	-0.987527715	3	1.62E+01
26	1.04E-01	-1	26	4.45E+09
7	1.56E+00	-0.60947204	7	2.41E+01
9	1.77E+00	-0.025898379	9	1.25E+00
14	7.31E+00	-0.102756027	14	3.84E+00
24	1.37E+00	0.463377144	24	3.53E-03
10	3.09E+00	-0.26233737	10	7.08E+00
20	4.22E-05	0.431326667	20	1.08E-02
19	4.15E-06	0.578637089	19	2.22E-03
24	6.07E+03	-0.399743645	24	1.03E+03
26	1.27E+11	-0.894164805	26	4.21E+06
17	1.07E-02	0.056886161	17	1.00E+00
19	6.16E-01	-0.690063464	19	7.67E+03
4	3.55E+00	-0.008976543	4	7.69E-01
16	2.54E-02	-0.127775231	16	6.39E+00
6	5.07E+00	-0.498730317	6	9.45E+00
12	3.48E+02	-0.409562939	12	3.55E+01
1	5.41E-01	-0.013868237	1	6.20E-01
6	9.35E+02	0.181445433	6	3.57E-01
12	3.06E+00	-0.034290445	12	1.72E+00
25	1.52E-05	0.667739397	25	1.34E-04
45	1.27E+04	-0.231260645	45	5.37E+03
7	7.27E+02	-0.025828215	7	1.05E+00
15	5.31E+02	-0.482867947	15	1.74E+02
6	1.06E-01	0.057550596	6	6.48E-01
14	4.33E+01	0.930323251	14	3.00E-04
2	6.15E-01	0.019616427	2	6.13E-01
6	1.90E+01	-0.918805604	6	7.15E+01
13	1.54E+01	-0.568704422	13	1.88E+02
6	1.31E+03	0.581839342	6	5.19E-02
14	2.58E+06	-0.012382112	14	1.68E+00
4	3.01E-01	-0.297492595	4	2.26E+00
3	5.15E-01	-0.062295521	3	8.45E-01
9	1.29E+00	-0.326835932	9	8.68E+00
35	9.28E-12	-0.287666032	35	2.42E+03
30	2.42E+09	-0.971931093	30	1.55E+08

5	3.74E+04	-1	5	4.45E+02
14	1.27E+03	-0.302045374	14	2.38E+01
13	1.80E-01	0.394300706	13	4.69E-02
14	2.49E+00	-0.191630802	14	8.67E+00
6	1.18E+00	-0.167575015	6	1.92E+00
8	5.88E+01	-0.061556442	8	1.42E+00
11	2.46E+01	-0.488336904	11	4.80E+01
34	2.17E-03	-0.116059488	34	6.23E+01
1	4.87E-01	-0.036174916	1	6.50E-01
8	8.89E-04	-0.300654033	8	5.81E+00
3	5.50E-02	-0.531041794	3	3.77E+00
3	1.59E+02	0.153155404	3	4.25E-01
3	4.50E+00	0.153391589	3	4.25E-01
7	2.02E+03	-0.64531154	7	2.92E+01
4	6.60E+01	-0.558417059	4	5.98E+00
4	1.84E+00	0.21114402	4	3.38E-01
26	7.85E+00	0.422790103	26	4.64E-03
9	1.06E+00	1	9	1.30E-03
6	1.89E-03	1	6	3.32E-03
9	2.47E-01	-0.245619311	9	5.14E+00
3	5.86E-01	0.45758604	3	1.61E-01
8	1.88E+02	-0.205476791	8	3.31E+00
28	2.74E+00	0.799668795	28	6.14E-06
17	2.74E-03	0.39115644	17	2.73E-02
8	1.23E-01	-0.466477311	8	1.54E+01
4	7.54E+00	-0.09149762	4	1.05E+00
6	1.12E-02	1	6	1.71E-03
32	1.07E-02	-0.166066868	32	1.23E+02
2	2.66E-01	1	2	2.86E-02
10	7.36E-02	0.817296517	10	3.75E-03
28	9.31E-02	0.143553793	28	3.63E-01
5	5.90E-01	0.021158034	5	7.28E-01
3	1.88E-01	0.108110559	3	4.91E-01
6	1.47E-01	0.021549467	6	7.71E-01
8	6.48E-02	0.07164737	8	6.45E-01
2	1.26E-01	-0.272247031	2	1.33E+00
23	2.31E-03	0.986350969	23	2.75E-06
14	2.55E-03	0.034219694	14	1.10E+00
3	7.62E-02	0.792749951	3	5.52E-02
4	1.17E-02	0.142123502	4	4.37E-01
11	1.03E-04	0.44968006	11	4.12E-02
15	1.96E+02	0.100957097	15	6.05E-01
11	2.70E-01	-0.079987213	11	2.22E+00
11	8.46E-03	-0.582920779	11	9.79E+01
6	3.70E-01	0.285863681	6	2.16E-01
4	9.50E-02	0.324752612	4	2.21E-01
2	1.31E-01	0.527996027	2	1.59E-01

32	6.77E-04	0.243365541	32	5.33E-02
2	1.59E+00	-1	2	1.49E+01
3	2.58E-01	-0.723724404	3	6.98E+00
5	1.96E-01	-1	5	4.31E+02
5	2.28E-01	-0.545652326	5	8.22E+00
5	2.55E+00	-0.035530687	5	9.28E-01
7	9.75E+02	-0.862084816	7	9.32E+01
4	6.99E+01	-0.851024303	4	1.78E+01
4	7.85E-01	-0.124942683	4	1.18E+00
37	6.25E-07	0.88740859	37	3.50E-08
2	1.07E-01	-0.276724096	2	1.34E+00
8	6.75E-01	0.027848164	8	8.35E-01
7	3.57E-01	-0.804031075	7	6.83E+01
4	5.19E+00	-0.571547049	4	6.28E+00
7	1.46E+02	0.424663046	7	9.42E-02
3	2.29E+00	-0.225432997	3	1.42E+00
20	5.86E+03	-0.66318951	20	8.57E+03
9	3.79E+01	-0.048677994	9	1.45E+00
5	9.13E-01	-0.09554513	5	1.20E+00
3	1.55E-01	0.237238121	3	3.25E-01
9	1.26E+00	0.02733032	9	8.86E-01
26	9.49E-03	0.855108958	26	5.33E-06
12	2.51E-01	0.321860865	12	9.71E-02
5	1.34E-01	0.775839914	5	2.89E-02
8	4.97E+00	0.780938689	8	9.81E-03
18	9.26E-03	0.422294518	18	1.67E-02
11	1.60E+02	-0.307046681	11	1.23E+01
9	1.16E+01	-0.423550357	9	1.62E+01
11	5.76E-04	0.185994213	11	3.00E-01
9	4.26E+01	-1	9	2.89E+03
6	4.19E+00	0.078048737	6	5.87E-01
12	1.75E+07	-0.746549335	12	5.39E+02
6	6.93E+01	-0.460710998	6	7.87E+00
11	6.21E+01	-0.133106141	11	3.31E+00
14	1.42E-01	-0.504068253	14	1.52E+02
6	2.06E-02	0.257394138	6	2.48E-01
37	6.13E+00	0.582319479	37	2.57E-05
7	6.18E-01	-0.111841195	7	1.67E+00
12	1.04E+00	0.413671866	12	4.63E-02
5	2.71E-01	0.19293026	5	3.49E-01
7	9.90E-03	-0.296203566	7	4.49E+00
1	5.49E-01	0	1	6.02E-01
3	5.49E-01	0.046992742	3	5.96E-01
7	1.34E-02	-0.281821301	7	4.16E+00
5	1.74E+00	-0.138479011	5	1.44E+00
9	1.36E+00	-0.622866766	9	5.85E+01
8	8.78E-01	0.149641375	8	4.07E-01

6	6.38E+00	0.563972917	6	5.65E-02
10	6.00E+00	0.702436752	10	8.37E-03
6	8.07E-02	0.182904755	6	3.54E-01
18	3.73E-01	-0.03802365	18	3.06E+00
24	1.65E+00	-0.146308388	24	2.56E+01
13	1.18E+02	-0.487295869	13	9.30E+01
36	6.07E-13	1	36	2.11E-11
11	8.62E-03	0.458448928	11	3.85E-02
10	7.90E-03	0.387090576	10	7.58E-02
5	1.89E-04	3	5	1.17E-06
3	3.11E-03	3	3	5.07E-05
3	8.15E-02	0.883402942	3	4.13E-02
11	4.81E-05	0.648765914	11	9.19E-03
5	6.76E+00	-0.684212883	5	1.49E+01
19	2.85E+01	-0.24060022	19	3.70E+01
6	2.16E+00	-0.776134764	6	3.60E+01
17	4.57E-03	-0.05352107	17	3.30E+00
16	3.67E-03	1	16	3.44E-06
12	1.43E-03	0.626130824	12	8.33E-03
19	1.36E+00	-0.128770889	19	9.83E+00
3	2.52E-01	0.937259425	3	3.48E-02
13	6.00E-03	0.291831839	13	1.13E-01
17	8.98E-03	-0.109874781	17	6.06E+00
6	1.95E-03	0.73249816	6	2.51E-02
3	4.15E-02	0.995721613	3	2.89E-02
2	3.24E-01	2	2	1.17E-02
5	7.21E-02	-0.545583366	5	8.22E+00
5	1.04E-01	-0.139564842	5	1.45E+00
7	1.51E-01	0.68487011	7	2.34E-02
9	1.01E+01	0.132774526	9	4.49E-01
11	4.36E+00	0.132031349	11	4.50E-01
3	5.02E-01	0.000162588	3	6.92E-01
4	2.37E-01	0.493224223	4	1.18E-01
1	5.24E-01	0.029926401	1	5.65E-01
8	1.90E-05	2	8	2.94E-05
18	4.17E-06	0.674749932	18	9.55E-04
4	3.46E-01	0.042657991	4	6.34E-01
15	1.27E-06	0.606017137	15	4.51E-03
6	3.37E-02	0.183233051	6	3.54E-01
13	1.65E-05	0.425737129	13	3.58E-02
5	2.85E-01	0.052659388	5	6.37E-01
23	3.25E+05	-0.6117262	23	1.51E+04
13	1.88E+01	-0.036628425	13	1.92E+00
34	3.12E-03	0.15071792	34	3.00E-01
2	1.19E+00	0.234691607	2	3.47E-01
7	1.06E+04	1	7	2.87E-03
4	6.45E-01	0.231569086	4	3.13E-01

6	5.05E+00	-0.14685882	6	1.74E+00
4	2.66E+02	-0.951035487	4	2.59E+01
3	6.17E-01	-0.006518397	3	7.07E-01
1	5.36E-01	0	1	6.02E-01
19	2.49E+02	0.809426641	19	1.44E-04
1	8.90E-01	-0.561746162	1	1.97E+00
7	9.04E+01	-0.665594862	7	3.25E+01
17	2.81E+09	-0.748435054	17	5.92E+03
2	1.01E-01	0.218270391	2	3.62E-01
9	1.00E+00	-0.142644751	9	2.65E+00
7	2.63E+01	-0.236859449	7	3.27E+00
28	3.14E-02	0.234298666	28	7.94E-02
13	3.72E-01	0.049373049	13	9.14E-01
27	1.80E-04	-0.354554989	27	1.17E+03
2	1.12E-01	0	2	6.46E-01
3	4.49E-02	0	3	6.93E-01
8	2.13E-02	-0.275275643	8	5.00E+00
7	4.97E+00	-0.749707894	7	5.10E+01
4	7.04E+00	0.127924723	4	4.61E-01
3	7.52E+00	-0.11339648	3	9.95E-01
12	1.24E+01	-0.086382438	12	2.62E+00
3	2.14E+00	-0.655851524	3	5.62E+00
3	1.40E+00	-0.861021223	3	1.08E+01
9	7.04E+00	-0.265613347	9	5.85E+00
4	2.17E+00	-0.40655363	4	3.39E+00
9	7.10E-03	-0.099349262	9	2.00E+00
1	6.12E-01	-0.237282464	1	9.92E-01
2	5.85E-01	-0.031276428	2	7.02E-01
2	7.99E-01	-0.038989716	2	7.16E-01
4	1.91E+00	-0.082693956	4	1.01E+00
5	1.60E+00	-0.500609343	5	6.78E+00
5	6.71E-01	-0.745334228	5	1.93E+01
6	7.93E+01	-1	6	6.77E+02
2	1.80E+00	-0.42270716	2	1.98E+00
9	2.88E+03	0.750094569	9	8.40E-03
21	8.04E+00	0.471224506	21	5.49E-03
9	9.12E+01	-0.014035743	9	1.16E+00
2	3.19E+00	-0.594303117	2	3.12E+00
7	3.65E+02	-2	7	2.92E+04
5	9.11E-01	-0.116939443	5	1.31E+00
7	3.75E+01	0.152220877	7	4.06E-01
19	1.01E+00	0.154318829	19	3.42E-01
19	1.18E+01	-0.204006546	19	2.40E+01
13	8.08E+08	-0.028976546	13	1.80E+00
5	1.25E+00	-0.160146908	5	1.58E+00
5	1.86E+01	-0.998283825	5	5.69E+01
4	6.39E-01	0.023246793	4	6.81E-01

1	5.30E-01	0.082530071	1	5.06E-01
6	2.28E-01	0.874906348	6	1.26E-02
8	4.16E-01	-0.260254297	8	4.57E+00
15	5.16E-01	-0.042887212	15	2.44E+00
14	6.14E+06	-0.704543039	14	9.50E+02
3	5.49E-01	-0.023490794	3	7.47E-01
6	1.49E+00	-0.186839444	6	2.10E+00
4	3.73E-01	0.055262589	4	6.05E-01
6	2.00E-01	0.248088862	6	2.59E-01
3	1.33E+00	-0.43188067	3	2.75E+00
10	1.72E+02	-0.185841925	10	4.15E+00
8	1.85E-01	0.331581623	8	1.39E-01
11	1.29E-01	0.022710912	11	1.02E+00
14	2.46E-01	0.073440983	14	7.66E-01
8	1.25E+00	-0.341601622	8	7.39E+00
3	3.62E+00	-1	3	3.30E+01
11	3.07E+02	-0.180338441	11	4.72E+00
14	3.50E-01	-0.364253243	14	4.21E+01
6	6.12E-01	0.001245412	6	8.50E-01
93	2.68E+18	-0.281078976	93	8.58E+08
11	4.06E+01	0.043442767	11	8.76E-01
16	4.50E-04	-0.020333613	16	2.13E+00
2	5.93E-01	0.037879649	2	5.84E-01
1	1.37E+00	0.737233461	1	1.27E-01
4	2.03E+01	-0.186128917	4	1.49E+00
7	6.86E-01	-1	7	6.24E+02
37	3.56E-10	2	37	1.66E-19
6	3.77E-03	0.129694345	6	4.58E-01
2	2.23E-02	1	2	4.45E-02
10	1.09E-01	0.198602778	10	2.83E-01
17	1.43E+02	2	17	1.05E-09
6	2.12E-01	1	6	4.27E-03
4	3.73E-01	0.313232904	4	2.31E-01
2	1.09E-01	0.882880468	2	6.23E-02
30	6.67E+03	-0.301354399	30	9.96E+02
17	7.23E+02	-0.406109056	17	1.48E+02
13	1.52E-01	-0.002411681	13	1.43E+00
21	2.75E+01	-0.985447595	21	8.56E+05
7	1.21E+00	-0.166628313	7	2.24E+00
7	3.75E+02	0.119132064	7	4.85E-01
16	5.69E+05	-0.14159309	16	7.36E+00
13	7.98E+00	0.091157168	13	6.38E-01
23	4.65E-01	0.177350572	23	2.34E-01
18	3.51E+00	0.115282875	18	5.39E-01
6	2.22E-01	0.009715416	6	8.16E-01
13	9.00E+02	-0.254176199	13	1.25E+01
3	7.06E-01	-0.138408896	3	1.08E+00

13	1.18E+01	-0.268593992	13	1.41E+01
7	3.27E+01	-0.048862335	7	1.19E+00
14	1.01E+01	0.169674279	14	3.17E-01
7	4.56E-01	0.08160887	7	5.93E-01
2	5.84E-02	-0.561898634	2	2.86E+00
7	1.22E-02	-0.329591327	7	5.37E+00
26	4.25E-01	0.095971774	26	7.76E-01
18	1.80E+03	-0.944066221	18	8.73E+04
4	2.82E-01	0.058084667	4	5.98E-01
6	8.96E-01	0.038921653	6	7.09E-01
4	6.11E-01	-0.679055664	4	9.38E+00
5	5.72E-02	0.170451232	5	3.85E-01
5	6.72E-01	-0.143038774	5	1.47E+00
8	5.87E+02	-0.828000501	8	1.30E+02
9	1.17E+00	-0.262077544	9	5.72E+00
18	3.90E+00	0.171186142	18	2.86E-01
4	2.66E-02	2	4	5.38E-04
13	8.25E+00	2	13	1.80E-08
21	1.60E-01	-0.190541663	21	2.89E+01
18	1.61E+02	0.089737326	18	7.20E-01
1	1.99E+00	0.21645112	1	3.82E-01
6	3.07E-01	0.100184553	6	5.28E-01
11	1.61E-01	-0.63365589	11	1.43E+02
13	2.76E+00	-0.600782281	13	2.47E+02
23	6.11E-02	-0.123366462	23	1.60E+01
10	4.95E-01	-0.563438702	10	5.80E+01
19	2.68E-03	0.527604084	19	4.07E-03
6	1.30E-02	0.263753411	6	2.40E-01
17	1.16E+01	0.215078508	17	1.82E-01
28	5.94E-09	0.201105862	28	1.38E-01
5	1.34E+00	-1	5	1.84E+02
6	2.05E+00	-0.161175142	6	1.86E+00
11	3.78E+00	-0.070085157	11	2.06E+00
9	8.82E-01	-0.278701759	9	6.36E+00
9	7.11E-01	-0.03357053	9	1.31E+00
53	1.57E+07	-0.013557016	53	3.51E+01
29	1.53E-03	0.792847199	29	4.80E-06
13	2.93E+03	0.924817127	13	4.86E-04
17	3.26E-04	-0.517518694	17	4.91E+02
8	1.22E-01	-0.068765982	8	1.48E+00
8	8.92E-02	-0.40851049	8	1.10E+01
5	4.23E-01	-0.219182122	5	2.04E+00
25	7.72E+00	-0.2042282	25	7.13E+01
8	1.23E-01	0.156612335	8	3.91E-01
5	1.49E-01	0.029169435	5	7.04E-01
1	4.45E-01	-0.013868237	1	6.20E-01
2	1.21E-01	-0.029700502	2	6.99E-01

28	1.82E-04	-0.117757769	28	2.88E+01
24	7.73E-04	-0.429833982	24	1.59E+03
8	5.32E+00	1	8	2.39E-04
4	3.12E+00	-0.436822459	4	3.80E+00
4	1.18E+00	0.838251468	4	3.25E-02
30	1.04E+09	-0.448893854	30	1.38E+04
11	7.02E+00	-0.480040889	11	4.51E+01
4	6.18E-01	0.089672474	4	5.32E-01
11	4.32E-01	-0.078181114	11	2.19E+00
6	1.10E+00	-0.139472385	6	1.67E+00
3	1.17E+00	-0.868866174	3	1.11E+01
9	3.23E+01	-0.39525255	9	1.35E+01
8	8.52E+00	0.284361374	8	1.84E-01
5	1.72E-02	0.452676857	5	1.15E-01
11	6.25E-01	-0.032526301	11	1.55E+00
6	1.01E-01	0.395746028	6	1.27E-01
12	7.51E-01	0.051843069	12	8.58E-01
5	1.15E-02	0.046122395	5	6.55E-01
8	9.74E-01	-0.108868622	8	1.87E+00
10	1.37E+00	-0.579192321	10	6.48E+01
11	5.91E-02	0.302323688	11	1.25E-01
7	3.14E-01	-0.136768547	7	1.91E+00
13	1.78E-04	-0.376399718	13	3.58E+01
1	9.23E-02	-0.022089477	1	6.31E-01
2	5.75E-01	0	2	6.46E-01
9	1.81E+00	-0.209413536	9	4.07E+00
18	3.22E+01	-0.246236059	18	3.23E+01
8	2.94E+00	-0.197242329	8	3.15E+00
6	1.63E-01	-0.073660721	6	1.22E+00
64	3.01E+01	-0.12086285	64	4.03E+03
10	9.07E+03	-0.673633192	10	1.25E+02
7	7.38E-01	-0.071735573	7	1.35E+00
6	1.30E+00	-0.311555821	6	3.84E+00
9	2.66E+00	0.032753895	9	8.55E-01
1	5.55E-01	0	1	6.02E-01
27	1.74E-01	0.595930863	27	2.40E-04
19	7.51E-01	0.838330709	19	1.02E-04
7	6.11E-02	0.140847623	7	4.31E-01
11	2.55E-01	0.256339199	11	1.76E-01
11	8.74E-03	0.352949985	11	8.53E-02
24	1.93E+03	-0.355186663	24	5.37E+02
11	1.26E-03	1	11	3.24E-05
3	2.65E-01	0.787865753	3	5.61E-02
12	6.06E+00	2	12	1.12E-07
15	2.30E-04	0.167533465	15	3.17E-01
6	2.66E-03	0.76118796	6	2.19E-02
17	1.07E-03	1	17	1.94E-07

9	3.84E-01	-0.206018027	9	3.98E+00
11	1.06E-01	-0.211745512	11	5.99E+00
10	1.98E+03	0.665043728	10	1.09E-02
6	8.45E+00	0.063374036	6	6.30E-01
16	1.44E+00	-0.002507423	16	1.77E+00
34	1.55E+02	-0.131866634	34	8.55E+01
24	8.85E+02	-0.442860786	24	1.93E+03
7	2.06E+01	0.069551774	7	6.32E-01
11	5.61E+00	0.031726611	11	9.57E-01
24	5.23E+00	0.121567157	24	5.15E-01
39	3.50E+08	2	39	7.74E-16
12	2.63E+00	-0.065888303	12	2.22E+00
12	9.67E-01	-0.034172277	12	1.72E+00
3	6.01E-01	-0.00718452	3	7.09E-01
8	4.75E-01	-0.052718046	8	1.34E+00
6	6.40E-02	-0.116012238	6	1.50E+00
21	6.10E-02	0.150202246	21	3.51E-01
5	1.25E-01	0.573955053	5	6.85E-02
12	1.72E-01	-0.150819766	12	4.40E+00
9	3.57E+00	0.106761169	9	5.31E-01
9	3.32E+01	-0.42451896	9	1.63E+01
30	2.33E+01	-0.218253668	30	2.26E+02
7	9.49E-04	-0.223365159	7	3.04E+00
15	1.31E+01	-0.0051414	15	1.69E+00
9	1.42E-01	-0.190521148	9	3.61E+00
9	1.65E+00	-0.223939177	9	4.47E+00
13	2.46E+01	-0.060457734	13	2.35E+00
2	5.73E-01	-0.076463909	2	7.91E-01
6	2.04E-01	0.022249201	6	7.68E-01
24	1.14E+01	0.076419205	24	9.95E-01
11	6.09E+01	0.020544966	11	1.04E+00
4	9.52E-01	-0.000453666	4	7.44E-01
24	7.67E+02	-0.160616973	24	3.15E+01
92	4.37E-01	-0.245853851	92	1.12E+08
11	1.16E+02	-0.770809925	11	4.03E+02
9	9.90E-01	-0.512904747	9	2.88E+01
10	8.51E-04	-0.530756329	10	4.62E+01
12	6.82E-10	0.503079901	12	2.25E-02
1	5.02E-01	0.115528734	1	4.72E-01
4	1.95E-01	0.828164288	4	3.38E-02
6	2.91E-01	0.510731176	6	7.30E-02
22	8.52E+00	-0.102722507	22	1.05E+01
2	2.05E+00	0.513525159	2	1.66E-01
8	1.90E+01	0.066769478	8	6.64E-01
4	8.97E-01	0.031492987	4	6.61E-01
9	8.23E-01	-0.060839199	9	1.56E+00
34	1.06E-03	0.133005217	34	4.28E-01

22	5.51E-10	0.652854582	22	3.94E-04
15	7.97E-04	-0.478769248	15	1.67E+02
4	6.25E-01	-0.136263428	4	1.24E+00
2	9.02E-01	-0.47226829	2	2.26E+00
5	1.13E+02	-0.686647678	5	1.50E+01
6	8.14E-01	0.165460856	6	3.85E-01
25	1.75E+01	0.341801789	25	1.85E-02
4	9.94E-01	-0.815879223	4	1.56E+01
14	2.41E+03	0.838969058	14	6.93E-04
12	2.73E-01	0.160855768	12	3.56E-01
4	7.22E-02	0.084166489	4	5.43E-01
9	1.76E-01	0.128028811	9	4.63E-01
4	2.58E-01	0.205940956	4	3.45E-01
16	3.33E+02	-0.179376183	16	1.08E+01
38	4.91E+04	-0.070032566	38	3.83E+01
20	1.80E+00	0.012912705	20	1.95E+00
6	7.83E-01	-0.255694454	6	2.93E+00
77	2.45E-07	0.345715831	77	3.95E-05
5	2.46E+00	-0.282585284	5	2.67E+00
15	1.07E+03	-0.546185669	15	3.21E+02
5	6.71E-01	0	5	7.97E-01
6	1.01E+00	-0.29461359	6	3.54E+00
6	4.75E-01	-0.121622218	6	1.54E+00
4	3.12E-01	-0.082292366	4	1.01E+00
3	1.60E+00	-0.104095224	3	9.66E-01
6	1.01E+01	-0.116326079	6	1.50E+00
12	5.28E-01	0.22536332	12	2.12E-01
4	2.95E-01	-0.12765004	4	1.20E+00
38	3.68E+03	0.152767995	38	2.74E-01
2	5.64E-01	0	2	6.46E-01
4	6.24E-01	0	4	7.43E-01
27	2.22E+01	-0.05622117	27	9.30E+00
20	1.26E+02	-0.148025605	20	1.44E+01
29	2.11E+00	-0.03710025	29	8.18E+00
7	3.94E-01	-0.074991319	7	1.37E+00
7	7.18E-01	-0.004034953	7	9.38E-01
8	7.65E-01	-0.026954063	8	1.15E+00
49	1.06E-05	-0.013710161	49	2.58E+01
37	2.51E-06	0.161024946	37	2.32E-01
5	8.11E-02	-0.056611854	5	1.02E+00
9	5.47E-01	0.111148239	9	5.16E-01
24	1.79E-09	0.198425298	24	1.68E-01
6	1.94E-02	0.128271875	6	4.61E-01
10	1.36E-06	2	10	9.82E-07
13	4.58E-03	0.216586497	13	2.17E-01
13	6.74E-01	0.033492408	13	1.05E+00
9	3.83E-04	0.211980503	9	2.69E-01

6	9.55E-01	-0.042915309	6	1.05E+00
2	6.02E-01	-0.018028537	2	6.77E-01
10	2.45E+00	-0.184048612	10	4.10E+00
36	2.22E-01	-0.418467814	36	4.78E+04
4	3.03E-01	1	4	6.43E-03
22	5.86E+00	0.764948837	22	8.67E-05
18	1.08E+01	-0.2375225	18	2.93E+01
27	3.18E+02	0.61430567	27	1.78E-04
6	3.80E+00	0.279311143	6	2.23E-01
6	1.13E+00	-0.340275447	6	4.41E+00
32	8.39E+00	-0.016304873	32	7.24E+00
19	1.14E+01	0.005126967	19	2.01E+00
3	6.14E-01	-0.034685052	3	7.74E-01
3	5.96E-01	-0.003958378	3	7.02E-01
10	7.07E+00	-0.38003815	10	1.61E+01
9	5.63E+00	-0.344374636	9	9.72E+00
15	1.43E+00	0.019861116	15	1.33E+00
6	6.88E-01	-0.034364195	6	1.01E+00
23	2.94E-01	0.034748249	23	1.73E+00
76	6.11E+12	-0.247787635	76	4.69E+06
12	1.48E+00	0.318749333	12	9.95E-02
11	1.16E+02	-0.070181396	11	2.06E+00
8	7.00E-01	-0.057800988	8	1.38E+00
7	1.82E-01	0.157206386	7	3.95E-01
8	5.16E-01	0.065541981	8	6.69E-01
8	7.94E-01	-0.181557347	8	2.87E+00
5	2.05E-01	-0.279535846	5	2.63E+00
4	3.84E-01	0	4	7.43E-01
22	3.68E+00	0	22	2.63E+00
10	1.35E+00	-0.025897168	10	1.36E+00
1	5.51E-01	0	1	6.02E-01
6	4.61E+00	-0.181385661	6	2.05E+00
5	3.46E+00	-0.168125171	5	1.64E+00
11	2.37E+00	0.177654108	11	3.19E-01
16	1.15E+00	-0.002527425	16	1.77E+00
10	1.42E+01	-0.285096107	10	8.30E+00
3	6.00E-01	0.141787115	3	4.41E-01
4	6.24E-01	-0.048447975	4	8.91E-01
2	1.95E-01	-0.782848415	2	5.14E+00
14	5.30E+01	-0.391970298	14	5.43E+01
71	2.66E-01	-0.033923668	71	3.21E+02
2	5.64E-01	0.031151252	2	5.95E-01
9	2.59E+01	-0.01620274	9	1.17E+00
5	4.21E+01	-1	5	6.22E+01
8	4.45E+02	-0.170784698	8	2.70E+00
9	4.60E+03	0.143772063	9	4.18E-01
7	2.90E-01	0.106554618	7	5.18E-01

4	6.30E-01	-0.033142908	4	8.41E-01
8	4.13E-01	0.085483623	8	5.94E-01
4	3.82E-02	-0.093695768	4	1.05E+00
5	3.62E+01	-2	5	1.42E+03
10	1.94E+01	0.094032629	10	5.87E-01
2	5.69E-01	-0.003048069	2	6.51E-01
5	4.12E+00	-0.462000756	5	5.75E+00
7	8.72E+00	-1	7	9.98E+02
7	3.19E-01	-0.402187622	7	7.92E+00
6	7.30E-01	-0.294912537	6	3.54E+00
32	5.64E-01	0.020963522	32	3.58E+00
4	6.24E-01	0	4	7.43E-01
3	5.17E-01	0.022433296	3	6.45E-01
3	5.39E-02	0.385339069	3	2.03E-01
5	8.73E-01	-0.027683083	5	8.97E-01
5	3.35E-01	0.019929627	5	7.32E-01
11	8.79E-01	0.000551553	11	1.21E+00
11	2.10E-02	0.028463754	11	9.81E-01
19	1.06E-04	0.004162275	19	2.03E+00
12	7.48E-02	-0.173957564	12	5.31E+00
2	1.27E+00	-0.27719147	2	1.35E+00
1	5.36E-01	-0.035179514	1	6.48E-01
2	5.64E-01	-0.063015639	2	7.63E-01
9	8.79E-01	0.317835328	9	1.36E-01
8	2.53E+01	0.88315813	8	5.36E-03
7	6.20E-04	0.761814081	7	1.55E-02
24	1.54E+01	0.31233968	24	3.19E-02
37	8.79E-01	0.033834388	37	3.63E+00
11	1.91E+01	-0.05207396	11	1.80E+00
39	4.22E+00	0.196327808	39	1.01E-01
12	1.92E-01	-0.14463718	12	4.19E+00
31	7.05E+02	1	31	4.30E-11
3	7.38E-01	-0.396803733	3	2.46E+00
28	2.02E+04	-0.406557705	28	3.63E+03
3	6.05E-01	0.717469157	3	7.02E-02
9	1.28E+00	-0.026651353	9	1.25E+00
13	1.46E+00	0.003329811	13	1.36E+00
4	7.22E-01	0	4	7.43E-01
5	2.43E+00	-0.019399586	5	8.66E-01
24	4.35E+02	0.141909862	24	3.83E-01
4	1.08E+00	-0.021214622	4	8.04E-01
6	7.02E-02	0.227339977	6	2.86E-01
5	8.08E-02	0.818080271	5	2.41E-02
15	1.00E+03	1	15	5.38E-05
2	1.40E+00	0.43560158	2	2.04E-01
6	5.58E-01	0.236998496	6	2.73E-01
10	7.38E-01	0.211415906	10	2.59E-01

11	9.66E-01	-0.169969598	11	4.37E+00
29	4.09E-04	-0.065580983	29	1.34E+01
11	8.34E-01	-0.011316398	11	1.32E+00
17	6.21E+00	-0.073641416	17	4.10E+00
5	6.60E-01	0	5	7.97E-01
23	1.90E-01	-0.152592352	23	2.40E+01
43	5.61E+00	-0.241407928	43	4.67E+03
17	4.21E-01	-0.058804631	17	3.49E+00
16	9.25E+00	-0.308542725	16	4.07E+01
18	2.42E+01	-0.032722036	18	2.88E+00
5	8.50E-01	0.028329743	5	7.06E-01
5	9.75E-01	-0.101194497	5	1.23E+00
44	8.88E+01	0.069193303	44	2.13E+00
3	1.09E+00	0.132459983	3	4.54E-01
6	7.41E-01	-0.07053596	6	1.20E+00
41	4.40E+00	-0.066909416	41	4.92E+01
13	1.82E+01	1	13	3.73E-06
22	7.18E-03	0.941910768	22	7.97E-06
21	7.86E+02	-0.364079572	21	2.74E+02
17	2.65E+03	-0.382517491	17	1.15E+02
6	6.40E-01	-0.227148471	6	2.56E+00
11	1.24E+00	0.275532654	11	1.53E-01
15	2.74E+00	-0.016013209	15	1.88E+00
23	5.28E+00	0.01364645	23	2.33E+00
19	1.08E+01	-0.29271047	19	6.88E+01
4	1.25E+00	-0.029217531	4	8.29E-01
1	5.36E-01	0	1	6.02E-01
20	1.03E+00	0.152988949	20	3.43E-01
2	5.64E-01	0	2	6.46E-01
81	1.31E+07	0.288996772	81	3.26E-04
11	5.36E+00	0.062897873	11	7.57E-01
7	6.35E-01	-0.057421193	7	1.25E+00
6	1.16E+00	0.146913956	6	4.21E-01
2	1.33E+00	0.175159217	2	4.06E-01
15	2.58E-02	-0.160973027	15	7.67E+00
3	5.73E-01	0.035184013	3	6.19E-01
5	7.16E-01	0.186343128	5	3.59E-01
34	3.76E+03	0.020715329	34	4.04E+00
3	6.04E-03	2	3	4.26E-03
42	1.34E+02	0.161474816	42	2.11E-01
17	6.65E+00	-0.048757229	17	3.13E+00
41	5.36E+01	-0.167265717	41	5.35E+02
10	2.28E+00	0.166455159	10	3.54E-01
5	3.36E+00	-0.583372398	5	9.66E+00
3	4.54E+00	1	3	1.59E-02
10	1.22E+00	0.263452293	10	1.80E-01
10	7.63E-01	0.361516953	10	9.06E-02

1	5.36E-01	0	1	6.02E-01
25	2.69E+00	-0.062755893	25	8.40E+00
13	1.76E-01	-0.018098011	13	1.63E+00
8	1.53E-01	-0.109596875	8	1.88E+00
19	5.00E+01	0.188502552	19	2.28E-01
2	4.19E-01	0.002553943	2	6.41E-01
14	1.39E+01	-0.51267759	14	1.64E+02
6	1.22E-02	0.722270975	6	2.64E-02
9	3.27E-01	0.511940521	9	3.90E-02
2	9.48E-01	0.339855962	2	2.62E-01
12	2.52E-01	-0.021612374	12	1.55E+00
12	2.34E+00	-0.205818788	12	6.87E+00
2	1.29E+01	0.497865146	2	1.73E-01
9	5.65E-03	-0.132629632	9	2.48E+00
30	3.42E-03	0.130994073	30	4.47E-01
10	9.06E-01	-0.31681162	10	1.04E+01
4	1.13E+00	-1	4	6.93E+01
7	7.86E-01	-0.042186109	7	1.15E+00
2	1.15E+00	0.541771891	2	1.54E-01
28	3.69E+03	0.168040011	28	2.41E-01
6	2.22E+00	0.011414737	6	8.10E-01
26	4.48E+01	0.01202688	26	2.89E+00
7	1.96E-01	0.443638293	7	8.51E-02
19	2.65E-01	-0.054487168	19	4.07E+00
4	6.24E-01	0	4	7.43E-01
13	1.77E-01	-0.299805054	13	1.85E+01
25	5.04E-02	0.191653724	25	1.79E-01
10	3.03E+01	-0.554349085	10	5.45E+01
16	5.01E+01	-0.257892533	16	2.42E+01
6	7.44E-01	0.066321654	6	6.21E-01
3	1.04E+00	-0.578803107	3	4.39E+00
15	5.42E+02	-0.950167319	15	1.62E+04
66	4.96E+02	0.040051785	66	1.30E+01
5	7.33E-01	-0.196200306	5	1.84E+00
94	1.24E+05	-0.096164316	94	6.48E+04
7	1.58E-01	0.98884143	7	4.58E-03
21	3.90E-05	0.612699599	21	8.79E-04
34	3.75E+01	0.054211757	34	2.07E+00
5	4.34E-01	-0.115456998	5	1.31E+00
26	7.80E-01	-0.004353455	26	3.73E+00
22	4.20E+01	0.075690961	22	9.48E-01
5	5.96E-01	0	5	7.97E-01
16	5.40E-01	0.003913555	16	1.66E+00
13	1.34E-03	0.811535492	13	1.29E-03
18	4.92E+00	0.073681836	18	8.63E-01
21	1.48E+00	-0.002239084	21	2.53E+00
2	5.64E-01	0	2	6.46E-01

63	1.48E+00	0.101974403	63	1.23E+00
11	9.32E+07	-0.309435709	11	1.25E+01
13	1.19E+05	-0.173889261	13	6.25E+00
4	6.21E-01	0.018186317	4	6.94E-01
6	7.60E-01	-0.182318559	6	2.06E+00
9	6.42E-01	0.064674832	9	6.96E-01
9	4.58E+00	-0.285631055	9	6.65E+00
3	5.97E-01	-0.004765242	3	7.03E-01
12	4.03E-01	0.157188526	12	3.67E-01
24	6.68E-01	-0.122306841	24	1.80E+01
11	4.37E-01	-0.104601275	11	2.67E+00
6	4.57E-01	-0.080575549	6	1.26E+00
4	1.37E+00	-0.111205733	4	1.13E+00
9	6.41E-01	-0.129568544	9	2.43E+00
10	9.39E-01	-0.290951572	10	8.65E+00
7	1.10E-01	-0.092085047	7	1.50E+00
5	9.65E-01	-0.035451084	5	9.28E-01
19	1.06E-05	-0.536094905	19	1.23E+03
19	1.06E+01	-0.381989453	19	1.98E+02
7	2.70E+01	-0.387960862	7	7.34E+00
5	9.63E+00	-0.512771874	5	7.14E+00
4	6.75E-01	-0.457445055	4	4.10E+00
1	5.36E-01	-0.028846715	1	6.40E-01
11	2.23E+03	-0.115684537	11	2.90E+00
17	2.30E+00	0.051111363	17	1.07E+00
3	5.94E-01	-0.438477175	3	2.81E+00
6	8.04E-02	0.008372919	6	8.22E-01
13	2.34E+00	-0.913121626	13	3.64E+03
38	6.46E-01	-0.123110986	38	1.24E+02
1	5.28E-01	0.03833677	1	5.55E-01
4	7.49E-02	0.883449977	4	2.75E-02
13	2.32E+03	-0.337526312	13	2.56E+01
12	6.46E+00	0.385400263	12	5.81E-02
10	7.42E-01	-0.048838687	10	1.59E+00
3	4.38E-01	-0.028509112	3	7.59E-01
16	1.44E-03	-0.038924199	16	2.57E+00
6	3.53E-03	0.272410746	6	2.30E-01
8	6.56E-01	-0.110621215	8	1.89E+00
10	1.60E+00	-0.070184344	10	1.85E+00
5	6.53E-01	0.00174229	5	7.91E-01
31	5.68E+01	0.372324006	31	5.30E-03
9	1.29E+00	0.145606288	9	4.13E-01
8	1.03E-02	0.418224682	8	8.34E-02
5	2.42E-04	2	5	1.99E-04
7	1.35E-03	0.647958973	7	2.85E-02
12	1.37E+01	-0.093839564	12	2.78E+00
29	1.30E+09	-0.77716253	29	2.94E+06

3	6.14E-01	-0.2229477	3	1.41E+00
8	1.57E+01	-0.10084086	8	1.79E+00
8	1.34E+00	-0.046102604	8	1.29E+00
8	1.69E+00	-0.052544169	8	1.34E+00
21	3.99E-01	0.150486469	21	3.50E-01
4	4.18E-01	0.018818082	4	6.93E-01
9	3.16E+00	-0.372329065	9	1.16E+01
8	3.44E+00	0.111403731	8	5.10E-01
6	2.13E+01	-0.171759627	6	1.96E+00
3	5.65E-01	-0.004995186	3	7.04E-01
18	5.28E+01	-0.288101192	18	5.19E+01
16	3.81E-01	0.022070098	16	1.38E+00
31	1.26E+09	-0.845588644	31	2.77E+07
19	2.08E-03	0.621517044	19	1.34E-03
23	7.32E+00	-0.121719589	23	1.56E+01
7	2.48E+00	-0.342969207	7	5.77E+00
23	6.57E-01	0.129159554	23	4.61E-01
24	2.41E-04	0.121140316	24	5.18E-01
9	1.96E+00	0.105054653	9	5.37E-01
12	7.05E-01	-0.012958762	12	1.45E+00
22	4.71E-01	0.205460185	22	1.65E-01
11	1.16E-01	-0.265411092	11	8.96E+00
11	2.90E+00	-0.128341779	11	3.19E+00
49	4.12E-02	0.076093463	49	2.06E+00
10	1.02E+00	-0.098709908	10	2.26E+00
6	3.23E-01	-0.215888698	6	2.42E+00
16	1.71E-08	0.831464217	16	3.47E-04
3	1.05E+00	0.122768466	3	4.68E-01
3	5.30E-01	0.034837243	3	6.20E-01
17	1.47E+00	-0.082376379	17	4.50E+00
8	5.58E-01	0.469267395	8	6.17E-02
17	1.20E+00	0.178585908	17	2.70E-01
6	6.20E-01	-0.053143137	6	1.10E+00
6	2.63E-01	0.492847043	6	7.96E-02
10	3.38E-01	0.366336746	10	8.76E-02
15	5.25E-05	0.150059977	15	3.76E-01
25	4.93E-04	0.044816943	25	1.65E+00
5	1.46E-03	0.394102037	5	1.48E-01
16	2.25E-02	1	16	1.83E-05
15	5.72E-01	1	15	7.77E-05
25	3.65E+03	-0.141348706	25	2.75E+01
10	2.64E-01	-0.125351627	10	2.72E+00
7	7.61E+00	-0.299680048	7	4.57E+00
19	1.49E+02	-0.346693698	19	1.30E+02
6	8.24E+02	-0.609849776	6	1.61E+01
6	7.85E-01	-0.583790204	6	1.42E+01
8	3.81E+02	-0.465796757	8	1.54E+01

11	1.60E+01	-0.295761548	11	1.13E+01
6	1.09E-01	-0.103506396	6	1.41E+00
3	5.42E-02	-0.398536686	3	2.47E+00
6	2.20E+01	-0.681237012	6	2.28E+01
7	1.21E+00	-0.01867919	7	1.01E+00
28	2.76E-04	-0.051707868	28	9.54E+00
13	6.99E+00	-0.576274678	13	2.00E+02
6	6.09E-01	-0.152022534	6	1.78E+00
6	6.03E-01	-0.041122805	6	1.04E+00
16	1.28E-03	-0.168165449	16	9.66E+00
5	1.12E+03	-0.592036158	5	1.00E+01
10	4.04E+02	-0.377687424	10	1.59E+01
10	1.52E-01	-0.482962973	10	3.31E+01
5	1.22E+01	0.122205881	5	4.73E-01
8	9.59E+00	0.071464157	8	6.46E-01
4	5.86E-02	0.325440442	4	2.21E-01
13	2.24E+01	-0.330963463	13	2.42E+01
3	1.05E+00	-0.462027829	3	3.03E+00
2	5.74E-01	0	2	6.46E-01
1	3.04E-01	-0.419981287	1	1.46E+00
5	2.37E-02	0.111291033	5	4.95E-01
6	5.66E+01	0.03031899	6	7.39E-01
12	1.76E-01	-0.541953927	12	1.03E+02
46	3.67E-01	-0.275391406	46	2.10E+04
7	1.99E-01	-0.219056863	7	2.97E+00
3	3.64E-01	0.520970972	3	1.31E-01
3	5.29E-01	0.123893817	3	4.67E-01
22	8.92E+08	-0.639485594	22	1.47E+04
4	5.38E+00	-0.678732521	4	9.37E+00
2	1.04E+00	0.087068448	2	5.13E-01
5	2.35E+00	0.074433098	5	5.80E-01
8	1.81E-01	-0.433061737	8	1.27E+01
25	1.68E-01	0.337230208	25	1.99E-02
16	1.60E-01	0.841351084	16	3.13E-04
7	3.24E-01	2	7	2.70E-04
4	8.70E+00	0.692415488	4	5.60E-02
7	3.93E-04	4	7	5.44E-09
7	2.48E-04	0.921878422	7	6.56E-03
23	2.45E-04	0.24840501	23	8.65E-02
12	4.40E+00	-0.3413093	12	2.05E+01
6	1.98E+01	-1	6	1.42E+02
7	2.16E-02	0.394354626	7	1.11E-01
12	1.33E-03	0.376573076	12	6.24E-02
5	3.09E+00	-0.167339424	5	1.63E+00
7	1.35E+00	-0.402650111	7	7.94E+00
4	1.29E+00	0.519014041	4	1.07E-01
9	1.17E+02	0.015137585	9	9.58E-01

11	7.09E-01	-0.24869322	11	7.90E+00
21	1.26E+02	-0.249547449	21	6.21E+01
13	1.37E+01	0.252050224	13	1.60E-01
31	6.93E+00	0.858548582	31	7.00E-07
33	1.78E-06	0.216599774	33	8.43E-02
13	4.74E+00	2	13	3.15E-06
6	1.87E-04	0.51427942	6	7.18E-02
5	2.05E-02	0.157382874	5	4.07E-01
13	4.20E-01	0.111406174	13	5.36E-01
7	3.87E-02	-0.786966885	7	6.23E+01
7	5.74E-04	1	7	3.44E-03
8	6.32E-01	-0.524273703	8	2.17E+01
12	1.19E+01	-0.310768006	12	1.60E+01
10	9.23E+00	-0.112675478	10	2.49E+00
15	5.11E+04	4	15	3.16E-17
21	8.09E-02	0.190244821	21	2.09E-01
36	1.70E+08	-0.517526545	36	3.86E+05
21	2.08E+05	-0.434358431	21	6.81E+02
4	1.98E+00	-0.31377709	4	2.40E+00
4	4.95E-01	0.142841224	4	4.36E-01
3	4.09E-01	-0.056807248	3	8.30E-01
8	1.02E-04	-0.362212938	8	8.35E+00
6	2.96E-02	0.098377354	6	5.32E-01
2	3.01E-01	0.141134437	2	4.44E-01
7	1.54E+01	0.156650528	7	3.96E-01
53	2.48E-11	0.595601024	53	3.38E-07
10	3.42E+00	-0.052103806	10	1.63E+00
5	2.71E+01	0.525076625	5	8.45E-02
27	2.15E+03	0.026852203	27	2.42E+00
9	3.26E+03	-0.170530165	9	3.17E+00
14	1.34E+00	-0.096138934	14	3.62E+00
8	8.22E+02	0.074585896	8	6.34E-01
51	6.08E-03	-0.237453554	51	2.08E+04
25	1.61E+02	0.691743552	25	9.33E-05
4	4.49E+00	-0.17050811	4	1.40E+00
14	7.94E+02	-0.644724361	14	5.49E+02
6	3.18E+02	-1	6	1.66E+02
5	7.02E-01	-0.052881464	5	1.00E+00
11	7.60E-01	-0.230342176	11	6.88E+00
13	7.74E-02	0.756328012	13	2.07E-03
20	1.03E-01	0.819204782	20	8.81E-05
12	3.85E-01	-0.501017175	12	7.44E+01
8	1.43E-02	0.99432201	8	2.78E-03
18	3.74E-03	0.128302697	18	4.65E-01
5	2.17E+03	-0.369592526	5	3.87E+00
36	3.18E+00	0	36	7.04E+00
12	9.38E-01	0	12	1.30E+00

8	7.65E-01	0	8	9.84E-01
5	6.57E-01	0	5	7.97E-01
5	6.57E-01	0	5	7.97E-01
8	7.65E-01	0	8	9.84E-01
42	7.84E+00	-0.023014291	42	1.88E+01
12	9.38E-01	0	12	1.30E+00
1	5.36E-01	0	1	6.02E-01
3	4.92E-01	0.157785397	3	4.19E-01
16	4.21E+01	-0.292919272	16	3.47E+01
2	1.43E-01	-0.405781272	2	1.89E+00
1	5.61E-01	-0.072048094	1	7.01E-01
6	1.05E+00	0.238561887	6	2.71E-01
31	5.20E-06	0.343838673	31	8.95E-03
11	1.85E-02	0.444211488	11	4.29E-02
1	4.07E-01	0.08884925	1	4.99E-01
6	2.46E-02	0.229798048	6	2.83E-01
14	2.65E-03	0.568589499	14	8.23E-03
5	1.24E+01	0.482882824	5	1.01E-01
30	4.91E-05	0.720693117	30	1.21E-05
31	1.66E-04	0.438234076	31	1.58E-03
4	9.51E-01	-0.145013589	4	1.28E+00
5	1.66E+02	0.240011293	5	2.86E-01
5	1.05E+00	-0.258042711	5	2.40E+00
7	1.94E+00	0.171213308	7	3.67E-01
11	6.40E+00	0.204559526	11	2.61E-01
8	2.77E-01	0.25874477	8	2.14E-01
27	6.72E+01	0.031026889	27	2.26E+00
9	6.00E-01	-0.788169466	9	1.70E+02
18	6.37E-01	-0.143764327	18	1.01E+01
2	5.64E-01	0	2	6.46E-01
3	5.93E-01	0	3	6.93E-01
13	7.44E-01	0.140661851	13	4.17E-01
13	1.42E+02	-0.81680961	13	1.59E+03
23	3.59E+00	-0.051028859	23	5.78E+00
15	7.46E-01	-0.001761182	15	1.64E+00
11	8.36E-02	-0.216146531	11	6.19E+00
20	3.58E+05	0.10483851	20	6.23E-01
35	5.33E+08	-0.26393521	35	1.48E+03
2	4.27E-01	0.030127963	2	5.96E-01
9	7.89E+00	-0.197282079	9	3.77E+00
4	8.93E-01	-0.618801574	4	7.49E+00
6	2.77E+00	-0.772469052	6	3.53E+01
9	7.64E-02	0.724234834	9	9.93E-03
9	4.76E-04	-0.003530328	9	1.08E+00
5	7.85E-01	-0.240251418	5	2.23E+00
8	1.66E-01	-0.276814182	8	5.04E+00
4	2.05E+00	-0.075770919	4	9.86E-01

24	4.61E+06	0.217716461	24	1.27E-01
13	1.05E-02	-0.850547959	13	2.12E+03
2	7.46E-01	-0.102985798	2	8.48E-01
9	1.11E+03	-0.950409112	9	4.83E+02
19	9.79E+00	1	19	1.88E-06
13	2.41E-01	0.200838229	13	2.48E-01
6	3.30E+00	-0.119416729	6	1.52E+00
21	4.91E-03	2	21	1.38E-09
4	2.76E-01	0.284129329	4	2.57E-01
18	5.57E+00	0.479645868	18	8.70E-03
7	4.01E-01	0.526876398	7	5.45E-02
8	1.19E+01	0.259841384	8	2.12E-01
6	8.12E-01	0.532823436	6	6.57E-02
69	1.40E+05	-0.213562241	69	2.95E+05
68	8.42E+05	-0.276689828	68	2.77E+06
9	1.20E-02	0.517062738	9	3.77E-02
4	4.12E-04	2	4	7.76E-05
4	6.83E-03	3	4	7.32E-06
5	6.97E-04	2	5	1.31E-04
6	1.56E-03	0.322488894	6	1.81E-01
13	1.87E+00	0.080608537	13	6.99E-01
1	4.92E-01	0.03833677	1	5.55E-01
20	1.57E-01	1	20	5.10E-07
9	6.49E-03	0.400761395	9	7.98E-02
5	7.39E-01	0.101774441	5	5.16E-01
18	1.31E+00	1	18	2.87E-07
12	9.86E+00	-0.065205133	12	2.21E+00
9	3.23E-01	0.008551981	9	9.99E-01
16	1.03E-01	0.188141364	16	2.52E-01
9	1.09E+01	0.901293325	9	3.17E-03
6	1.13E+00	2	6	1.26E-04
18	1.35E+00	0.717355203	18	5.90E-04
2	1.66E-01	0.298645883	2	2.93E-01
10	2.94E-02	0.108775349	10	5.30E-01
16	1.02E+01	0.024609577	16	1.34E+00
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0	2	6.46E-01
10	6.34E-01	-0.153838687	10	3.32E+00
42	5.73E-06	0.228521185	42	4.13E-02
29	1.71E+18	-1	29	2.90E+10
49	1.32E+02	-0.15719296	49	1.46E+03
13	1.00E+05	-0.446110482	13	6.52E+01
7	7.94E-01	-0.014484716	7	9.92E-01
18	1.10E+02	-0.039112365	18	3.10E+00
14	7.51E-01	-0.01311923	14	1.69E+00
21	1.05E-02	-0.211388955	21	3.79E+01
8	2.45E+00	0.359566913	8	1.18E-01

53	2.54E+03	0.138443708	53	3.51E-01
24	6.48E+00	1	24	8.93E-07
10	1.29E+00	-0.057166435	10	1.69E+00
16	2.81E+04	-0.574640037	16	6.20E+02
7	2.00E+00	-0.513167014	7	1.44E+01
6	9.62E-01	-0.173358115	6	1.97E+00
6	5.81E+00	0.858187797	6	1.37E-02
6	2.64E-01	0.29585405	6	2.06E-01
3	3.72E-02	-0.160119805	3	1.15E+00
6	2.95E+00	-0.19840276	6	2.22E+00
17	7.63E-03	-0.096958469	17	5.27E+00
14	1.65E-06	0.506045292	14	1.46E-02
21	2.67E-04	0.295635362	21	5.34E-02
13	5.45E+00	-0.745364053	13	8.59E+02
4	4.85E-02	0.745520842	4	4.60E-02
6	2.78E-03	1	6	1.22E-03
5	7.92E-03	0.286263199	5	2.34E-01
3	1.11E-01	-0.069087661	3	8.64E-01
2	1.63E-01	-0.13998744	2	9.36E-01
6	8.36E-01	0.288918881	6	2.13E-01
8	4.88E+01	1	8	1.26E-03
12	2.48E+03	1	12	6.53E-05
3	5.77E+00	1	3	1.16E-02
7	3.16E-01	0.45955038	7	7.82E-02
11	3.38E-03	-0.333413971	11	1.50E+01
96	1.40E+02	-0.074877845	96	2.64E+04
33	8.02E-01	-0.186496474	33	2.15E+02
4	5.23E+00	-0.26106178	4	1.97E+00
6	1.75E+01	-0.226375595	6	2.55E+00
15	5.51E+00	0.014968187	15	1.39E+00
8	3.13E+00	0.05288639	8	7.20E-01
52	2.99E+04	-0.785246529	52	3.05E+11
9	7.03E-02	0.177895587	9	3.36E-01
6	5.61E-01	0.401231566	6	1.24E-01
6	1.01E+00	0.452386925	6	9.67E-02
8	1.65E+00	-0.010406981	8	1.05E+00
13	1.00E+04	-0.32970208	13	2.39E+01
9	6.01E-01	0.082115108	9	6.22E-01
13	5.42E+00	0.143308553	13	4.07E-01
28	2.60E-01	0.041130687	28	2.02E+00
11	3.20E-01	-0.053715349	11	1.82E+00
6	1.52E+00	0.108042717	6	5.08E-01
3	7.74E-01	0.052998955	3	5.85E-01
5	6.57E-01	0	5	7.97E-01
5	6.57E-01	0	5	7.97E-01
3	5.88E-01	0	3	6.93E-01
2	4.56E-01	0.027443108	2	6.00E-01

22	1.35E-01	0.01476627	22	2.16E+00
3	1.32E-01	-0.061552795	3	8.43E-01
5	1.67E-02	-1	5	6.34E+01
14	2.50E-04	0.28986706	14	1.06E-01
4	6.33E-01	0	4	7.43E-01
12	8.98E-02	0.184567704	12	2.94E-01
4	1.83E-01	-0.735861951	4	1.16E+01
38	3.61E+02	-0.092849778	38	6.35E+01
18	7.09E+00	-0.106074051	18	6.61E+00
7	3.25E-01	0.327848244	7	1.58E-01
9	8.72E-01	0	9	1.06E+00
11	8.91E-01	0	11	1.22E+00
9	8.05E-01	0	9	1.06E+00
11	8.91E-01	0	11	1.22E+00
9	8.05E-01	0	9	1.06E+00
11	8.91E-01	0	11	1.22E+00
9	8.05E-01	0	9	1.06E+00
11	1.81E+00	0	11	1.22E+00
9	8.05E-01	0	9	1.06E+00
11	1.24E+00	-0.006307747	11	1.27E+00
9	7.19E+02	-1	9	5.20E+03
20	1.43E-02	-0.034239294	20	3.50E+00
9	4.75E-02	-0.063028011	9	1.59E+00
9	6.28E-01	-0.002564443	9	1.07E+00
36	2.11E-01	-0.008770051	36	8.47E+00
12	1.35E+00	-0.086695956	12	2.63E+00
6	6.92E-01	-0.00063512	6	8.58E-01
6	3.40E-01	0.081904246	6	5.76E-01
3	5.92E-01	-0.109318147	3	9.82E-01
4	6.17E-01	-0.009387202	4	7.70E-01
9	3.73E-02	0.063992012	9	6.99E-01
24	6.95E-01	0.087576435	24	8.45E-01
7	9.24E-01	0.118959992	7	4.85E-01
4	6.42E-01	-0.018431235	4	7.96E-01
7	7.27E-01	-0.051469877	7	1.21E+00
3	6.65E-01	0	3	6.93E-01
7	2.40E-01	0.227589863	7	2.71E-01
5	4.48E-03	-0.772069406	5	2.16E+01
3	2.62E-01	0.103371081	3	4.98E-01
17	2.83E-02	0.318387833	17	5.99E-02
7	7.13E-01	0.008234466	7	8.78E-01
10	5.94E-02	0.119165556	10	4.93E-01
5	6.60E-01	0.006807702	5	7.74E-01
8	2.26E-01	0.115881716	8	4.97E-01
6	3.23E+01	-1	6	1.23E+02
5	5.14E+00	-1	5	4.28E+02
7	3.23E-03	-0.414096314	7	8.44E+00

2	3.88E-01	-0.018659556	2	6.78E-01
6	5.66E-01	-0.140931027	6	1.69E+00
6	7.11E-01	0.003649804	6	8.40E-01
4	8.49E-01	-0.076682752	4	9.90E-01
17	3.71E+00	-0.15113611	17	9.45E+00
12	1.00E+00	-0.006863722	12	1.38E+00
3	5.93E-01	0	3	6.93E-01
1	5.36E-01	0	1	6.02E-01
13	8.58E-01	-0.081763661	13	2.83E+00
11	8.59E-01	-0.000829977	11	1.22E+00
14	4.15E-01	-0.053189178	14	2.44E+00
11	5.36E-01	0.140440704	11	4.22E-01
26	8.92E-01	0.071315039	26	1.14E+00
13	2.44E+02	-0.406378462	13	4.63E+01
3	5.93E-01	-0.003124525	3	7.00E-01
5	1.66E-01	-0.033839618	5	9.21E-01
2	5.64E-01	-0.009354115	2	6.62E-01
8	9.65E+01	-0.679693269	8	5.44E+01
12	1.73E+02	-0.577887261	12	1.38E+02
12	9.94E+00	-0.631934822	12	2.14E+02
13	3.04E-01	-0.019373015	13	1.65E+00
8	1.06E+00	-0.407358967	8	1.09E+01
4	5.20E+01	1	4	6.68E-03
9	2.35E+06	1	9	1.44E-04
3	7.69E-01	0.156873349	3	4.20E-01
5	2.37E+02	1	5	8.85E-03
3	1.51E+01	-0.534667829	3	3.82E+00
9	2.23E+04	-0.193687442	9	3.68E+00
12	3.52E+05	-0.523095772	12	8.89E+01
10	3.68E+02	-0.227222805	10	5.54E+00
3	5.16E-01	0.738643003	3	6.56E-02
32	6.41E+01	0.173753704	32	1.99E-01
3	5.48E-01	-0.11219542	3	9.91E-01
13	9.87E-01	-0.016416565	13	1.61E+00
26	3.11E-01	0.120649125	26	5.27E-01
20	1.73E+00	0.024627189	20	1.69E+00
12	1.06E+00	0.045113642	12	9.06E-01
3	4.56E-01	-0.098051522	3	9.47E-01
1	5.36E-01	0.012236531	1	5.87E-01
11	4.99E-01	0.044097775	11	8.72E-01
7	2.57E+00	-0.027556238	7	1.06E+00
9	7.79E-01	-0.176049842	9	3.28E+00
18	3.30E-03	0.694298145	18	7.66E-04
2	5.64E-01	0	2	6.46E-01
2	5.64E-01	0	2	6.46E-01
10	1.59E+00	0.058576254	10	7.52E-01
2	5.77E-01	-0.013176631	2	6.69E-01

5	2.85E+00	-0.345742845	5	3.50E+00
3	1.01E+00	-0.18644714	3	1.26E+00
6	1.51E+00	-0.631956555	6	1.80E+01
17	7.49E+03	-0.583266096	17	9.97E+02
24	5.74E+00	-0.20271187	24	5.82E+01
18	5.11E+03	2	18	9.66E-12
7	4.57E+01	0.35425107	7	1.37E-01
26	7.93E+01	0.148687934	26	3.40E-01
10	1.11E+00	-0.152273614	10	3.28E+00
12	3.17E-01	0.028370708	12	1.04E+00
9	8.00E-01	-0.002931506	9	1.08E+00
11	9.23E-02	0.014997676	11	1.09E+00
3	2.10E-02	0.568150442	3	1.13E-01
7	1.01E+00	-0.023239521	7	1.04E+00
12	1.00E-02	0.083317504	12	6.66E-01
27	1.04E-04	-0.212954392	27	1.18E+02
84	3.31E+16	0.383123808	84	2.98E-06
5	2.49E+00	-0.2208328	5	2.05E+00
9	2.81E+03	0.77573667	9	7.12E-03
13	2.51E+04	1	13	4.16E-05
12	1.36E+05	0.771791792	12	2.57E-03
5	2.87E+01	0.41465234	5	1.35E-01
9	1.26E+03	2	9	4.86E-06
16	2.32E+02	-0.360066394	16	6.89E+01
48	3.14E-01	0.027269493	48	7.71E+00
2	5.40E-01	0.161360466	2	4.21E-01
10	6.23E-01	-0.129615451	10	2.80E+00
2	4.52E-01	0	2	6.46E-01
2	5.63E-01	0	2	6.46E-01
9	2.88E+01	-0.227216123	9	4.57E+00
6	6.49E-01	0.209945321	6	3.11E-01
13	3.67E+01	-0.05906099	13	2.33E+00
7	8.62E-01	-0.332526408	7	5.45E+00
7	5.31E-01	-0.115391318	7	1.70E+00
2	5.31E-01	-0.170334788	2	1.01E+00
12	3.16E+01	-0.806636452	12	8.76E+02
14	4.21E-02	0.229214089	14	1.84E-01
2	1.76E-01	-0.20760423	2	1.12E+00
10	6.12E-01	0.07416286	10	6.75E-01
8	1.02E-01	-0.053104349	8	1.35E+00
14	1.04E-01	0.102409473	14	5.88E-01
6	1.37E+00	-0.203455798	6	2.28E+00
4	1.86E+00	0.226860281	4	3.19E-01
9	2.53E+03	0.00688935	9	1.01E+00
5	3.23E+01	1	5	2.44E-03
14	4.94E+01	-0.122376208	14	4.60E+00
11	3.69E+01	-0.068360037	11	2.03E+00

2	5.83E-01	-0.07833055	2	7.95E-01
3	7.18E-01	-0.250111904	3	1.54E+00
16	6.17E-01	0.212848639	16	1.95E-01
8	3.04E-01	-0.002764869	8	1.00E+00
12	1.47E+00	0.129797258	12	4.57E-01
40	4.19E-06	-0.558067207	40	4.03E+06
11	4.11E-04	-0.920628077	11	1.24E+03
5	1.03E+00	0	5	7.97E-01
4	5.35E+00	-0.162059445	4	1.36E+00
17	1.79E-03	0.512241258	17	7.40E-03
5	7.80E-01	-0.303150999	5	2.91E+00
21	1.45E-01	0.079096433	21	8.81E-01
8	1.40E+00	-0.280797876	8	5.16E+00
2	7.93E-01	-0.458670779	2	2.18E+00
50	1.26E-06	-0.227739229	50	1.29E+04
25	4.13E-01	0.223430562	25	1.11E-01
88	6.71E-08	0.462236245	88	3.49E-08
97	1.96E-02	-0.30629532	97	8.19E+09
11	1.16E-02	0.092662953	11	6.05E-01
43	3.82E-01	-0.053796639	43	4.39E+01
6	5.01E-01	-0.110771789	6	1.46E+00
8	9.34E-01	0.141402415	8	4.27E-01
4	4.34E-01	0.006587652	4	7.25E-01
11	5.38E-01	-0.207584795	11	5.80E+00
3	9.34E-01	-0.261129217	3	1.59E+00
7	8.14E-01	-0.004101834	7	9.38E-01
3	9.49E-01	-0.093642817	3	9.34E-01
12	3.89E+02	-0.227525608	12	8.18E+00
1	7.22E-01	-0.022713648	1	6.31E-01
3	3.20E+01	-0.110879724	3	9.87E-01
36	7.31E+00	0.117864932	36	5.87E-01
31	5.43E+00	0.008920527	31	4.21E+00
28	1.51E+00	-0.005765569	28	4.42E+00
5	3.94E+00	-0.382482015	5	4.09E+00
21	7.49E+01	-0.223755341	21	4.45E+01
10	3.25E-01	-0.01955608	10	1.30E+00
3	2.06E+00	-0.019787725	3	7.38E-01
13	7.91E-03	0.222801078	13	2.05E-01
38	7.41E+04	-0.452719543	38	1.85E+05
22	2.64E+00	-0.109525963	22	1.15E+01
10	1.30E+00	0.193278821	10	2.94E-01
14	1.76E+00	-0.143632482	14	5.59E+00
5	9.16E-01	0.431453977	5	1.26E-01
2	5.67E-01	-0.009632803	2	6.62E-01
5	6.82E-01	-0.008923734	5	8.28E-01
9	3.84E+00	-0.391175429	9	1.31E+01
4	8.09E-01	0.010047261	4	7.16E-01

4	6.15E-01	-0.218490527	4	1.68E+00
21	1.67E-02	-0.168686228	21	2.18E+01
4	7.95E-01	-0.069555243	4	9.64E-01
4	6.75E-01	0.220760629	4	3.26E-01
11	1.62E+01	-0.069949375	11	2.06E+00
4	6.21E-01	-0.036969858	4	8.53E-01
6	3.54E-01	-0.278359681	6	3.27E+00
22	7.98E-01	0.030621546	22	1.74E+00
7	7.18E-01	-0.001529524	7	9.25E-01
1	1.83E+01	-0.888184858	1	3.91E+00
24	1.19E-02	0.16229315	24	2.85E-01
16	5.97E+03	-0.560082071	16	5.35E+02
5	1.62E+01	-0.28790898	5	2.73E+00
27	2.41E+02	-0.306868974	27	5.40E+02
23	1.64E+00	-0.057990733	23	6.37E+00
18	9.11E-01	0.030470794	18	1.41E+00
34	3.43E-03	0.219176922	34	7.64E-02
3	4.75E-01	0	3	6.93E-01
15	2.23E-03	1	15	2.24E-05
5	6.36E-02	0.285666161	5	2.35E-01
1	4.83E-01	0.081336799	1	5.07E-01
12	2.75E+01	0.298682248	12	1.17E-01
7	3.62E-01	0.39400242	7	1.11E-01
22	8.58E-01	-0.047282157	22	4.98E+00
43	4.99E-01	0.144385318	43	3.17E-01
6	5.66E-01	-0.029918516	6	9.88E-01
2	3.28E-01	1	2	1.60E-02
7	8.32E-02	2	7	3.46E-05
12	2.13E+00	0.003252838	12	1.27E+00
7	7.46E-01	-0.069007669	7	1.33E+00
47	1.84E-01	0.730065704	47	4.06E-08
13	3.19E+00	-0.014059027	13	1.58E+00
60	6.32E+03	-0.181712414	60	1.87E+04
18	8.32E+00	-0.117578704	18	7.53E+00
8	8.87E+02	0.210897513	8	2.84E-01
4	1.53E+00	-0.125596031	4	1.19E+00
4	1.80E+00	0	4	7.43E-01
12	1.88E+00	-0.058733208	12	2.09E+00
3	5.93E-01	0	3	6.93E-01
35	1.06E-02	-0.611071792	35	1.85E+06
6	1.06E-01	0.44435857	6	1.01E-01
5	2.05E-03	0.324947092	5	1.99E-01
54	1.96E+01	-0.044230634	54	9.76E+01
5	8.57E-01	-0.17284468	5	1.67E+00
4	6.24E-01	-0.048625978	4	8.91E-01
4	7.47E-01	0	4	7.43E-01
1	5.36E-01	0	1	6.02E-01

1	5.36E-01	0	1	6.02E-01
1	5.36E-01	0	1	6.02E-01
10	1.47E+00	0.055169977	10	7.71E-01
11	8.91E-01	0	11	1.22E+00
1	5.36E-01	0	1	6.02E-01
5	5.50E+00	0.039395345	5	6.74E-01
3	1.40E+00	-0.948163547	3	1.43E+01
10	4.32E+00	-0.200851243	10	4.61E+00
2	5.50E-01	0.165328729	2	4.17E-01
7	1.17E+00	-0.806546066	7	6.92E+01
4	3.21E+00	0.329363175	4	2.17E-01
2	5.06E-01	-0.142257018	2	9.41E-01
10	1.19E+00	0.100074903	10	5.63E-01
3	5.90E-01	-0.044721683	3	7.99E-01
5	1.11E-02	0.596599122	5	6.22E-02
2	5.13E-01	0	2	6.46E-01
13	2.17E-02	0.19899672	13	2.52E-01
39	1.43E-13	0.617317327	39	7.10E-06
14	9.04E-03	0.227252275	14	1.87E-01
4	7.14E-01	0.080253222	4	5.51E-01
7	1.88E+00	-0.19958402	7	2.67E+00
18	3.41E-01	0.079919986	18	8.04E-01
27	3.09E-01	0.022785273	27	2.59E+00
5	3.78E-01	-0.011624034	5	8.38E-01
3	5.62E-01	0.029143999	3	6.31E-01
4	2.01E-01	0.311391797	4	2.32E-01
5	6.41E-01	-0.001603747	5	8.03E-01
2	5.31E-01	1.00E-05	2	6.46E-01
7	3.88E-01	4.27E-05	7	9.17E-01
9	2.07E+01	-0.418334744	9	1.56E+01
8	4.05E-01	0.056449112	8	7.05E-01
5	1.34E-01	0.092165849	5	5.38E-01
4	6.95E-01	-0.193877018	4	1.53E+00
4	4.60E-01	-0.112266227	4	1.13E+00
10	4.49E-02	0.029279072	10	9.23E-01
20	1.89E-01	-0.063995614	20	5.06E+00
1	3.48E-01	-0.012906261	1	6.19E-01
13	8.55E-02	0.092547088	13	6.30E-01
3	2.04E-01	0.77433476	3	5.85E-02
3	4.04E-01	0.046950558	3	5.96E-01
3	7.17E-02	0.194373426	3	3.73E-01
4	5.59E-06	1	4	3.39E-03
10	2.62E-07	1	10	2.24E-04
8	8.57E-02	0.101111187	8	5.42E-01
14	2.56E+00	-0.00787578	14	1.61E+00
12	6.66E+02	0.588388039	12	1.13E-02
13	1.04E+00	0.05025771	13	9.07E-01

2	1.12E+00	-0.317751179	2	1.50E+00
5	9.37E+00	-0.171045745	5	1.66E+00
5	7.55E+02	-1	5	1.56E+02
22	7.47E+08	0.205085551	22	1.65E-01
6	1.98E+05	1	6	8.50E-04
4	8.88E+00	0.910106832	4	2.49E-02
8	3.07E+00	2	8	4.10E-05
4	4.22E+00	2	4	1.47E-04
5	5.77E-01	0.036784636	5	6.81E-01
4	5.09E-01	0.030251134	4	6.64E-01
6	7.94E-01	0.677743333	6	3.27E-02
28	2.91E+00	-0.051877108	28	9.57E+00
34	5.90E+00	-0.070899322	34	2.53E+01
9	1.35E+00	-0.31663912	9	8.13E+00
5	5.74E-01	0.797032068	5	2.64E-02
5	1.55E+00	0.828834098	5	2.30E-02
5	1.54E+02	-0.324529574	5	3.19E+00
12	1.40E+01	-0.417150072	12	3.78E+01
7	9.08E+01	-0.228092331	7	3.12E+00
15	1.38E+02	-0.235121353	15	1.57E+01
9	6.28E-02	0.02640451	9	8.91E-01
3	3.08E-01	0.478567625	3	1.50E-01
17	5.46E+02	0.10228266	17	6.15E-01
6	6.59E-01	0	6	8.55E-01
36	6.40E+01	-0.1538693	36	1.81E+02
8	8.71E-01	0.052858785	8	7.21E-01
30	6.32E-02	0.200441149	30	1.30E-01
1	5.60E-01	-0.05582359	1	6.77E-01
8	5.07E-01	0.075661193	8	6.30E-01
12	3.43E+02	0.545768055	12	1.59E-02
7	2.94E+02	2	7	1.34E-04
3	6.45E-01	-0.068020668	3	8.61E-01
15	7.36E-05	-0.167530323	15	8.17E+00
90	7.99E-03	1	90	9.96E-25
18	9.25E-01	-0.19931972	18	1.90E+01
9	1.50E+04	-0.78739087	9	1.69E+02
2	6.08E-01	0.058606937	2	5.53E-01
3	8.09E-01	-0.009759884	3	7.15E-01
14	1.11E+02	-0.224352564	14	1.17E+01
8	3.50E+03	-0.277681579	8	5.07E+00
26	9.65E+00	0.033816786	26	2.05E+00
70	3.26E-08	0.283796913	70	1.04E-03
3	6.13E-01	-0.000476042	3	6.94E-01
11	5.72E+00	-0.123070089	11	3.07E+00
9	8.41E-01	-0.111530674	9	2.17E+00
8	3.04E+00	-0.200872001	8	3.22E+00
18	4.64E+01	-0.176661292	18	1.47E+01

1	6.02E-01	-0.108904449	1	7.57E-01
9	1.51E+02	-1	9	9.29E+02
15	2.98E-01	0.048225387	15	1.01E+00
72	4.21E+00	0.302723042	72	4.06E-04
12	4.07E+05	0.993862716	12	4.28E-04
17	3.00E+00	0.742255433	17	6.20E-04
6	1.29E+00	0.31592229	6	1.87E-01
7	1.30E+03	1	7	3.86E-03
12	4.69E+00	-0.193707572	12	6.23E+00
30	1.86E+07	-0.309202298	30	1.15E+03
6	5.83E-01	0.065265985	6	6.25E-01
12	3.52E-02	2	12	4.48E-06
8	3.37E+04	-0.800775324	8	1.11E+02
3	2.29E+02	-1	3	1.83E+01
4	7.54E+00	-0.420711904	4	3.57E+00
4	1.80E-01	-0.633331031	4	7.91E+00
1	3.14E+00	0.160060224	1	4.30E-01
4	1.38E+00	0.046381702	4	6.25E-01
11	3.30E+00	0.72561125	11	5.16E-03
3	5.56E-01	-0.000974895	3	6.95E-01
8	2.41E-01	0.266398715	8	2.04E-01
13	1.87E+00	2	13	6.19E-08
1	4.09E-01	0	1	6.02E-01
29	4.79E-06	-0.344809598	29	1.67E+03
3	4.22E-01	-0.024705928	3	7.50E-01
6	2.11E+00	0.022631689	6	7.67E-01
5	6.61E-01	0.377439163	5	1.59E-01
11	9.47E-01	0.05998957	11	7.74E-01
8	4.93E-01	-0.216047742	8	3.52E+00
3	1.60E-01	-0.261864389	3	1.60E+00
5	2.72E+01	-0.458357874	5	5.66E+00
7	5.48E-01	-0.889669042	7	1.08E+02
2	2.82E+00	-0.573976194	2	2.95E+00
4	8.63E+00	-0.809927214	4	1.53E+01
10	2.21E+00	-0.547954901	10	5.21E+01
9	3.84E-01	-0.091041316	9	1.90E+00
8	5.11E-04	-0.096248357	8	1.74E+00
6	1.73E+01	-0.106324929	6	1.43E+00
2	7.83E-01	4.29E-05	2	6.46E-01
2	7.77E-01	9.73E-05	2	6.46E-01
1	7.14E-01	0.206845344	1	3.89E-01
4	1.29E+00	0.101527603	4	5.09E-01
8	3.97E+02	-0.870128493	8	1.67E+02
8	9.13E+02	-1	8	5.81E+02
3	5.31E+01	-0.466763971	3	3.07E+00
14	1.59E+07	-0.474650736	14	1.16E+02
5	4.37E+00	-0.456701649	5	5.62E+00

6	2.32E+01	-0.34120125	6	4.43E+00
8	8.31E-03	-0.17412301	8	2.75E+00
8	2.23E-01	-0.166317684	8	2.63E+00
5	2.96E+00	-0.518656044	5	7.32E+00
6	8.44E+00	-0.522571786	6	1.06E+01
7	1.87E+00	0.093605422	7	5.56E-01
2	4.91E-01	-0.149674917	2	9.60E-01
3	6.70E-01	-0.006730578	3	7.08E-01
4	9.02E-01	-0.539310344	4	5.57E+00
4	1.16E+00	0.229828561	4	3.15E-01
4	6.27E-01	-0.47011039	4	4.30E+00
4	1.92E-01	-0.428016072	4	3.67E+00
18	1.05E-01	0.361385737	18	3.32E-02
5	1.38E-01	0.206422781	5	3.30E-01
7	8.81E-02	0.464119177	7	7.63E-02
5	2.03E-01	0.043310399	5	6.63E-01
22	2.99E-07	0.896476825	22	1.47E-05
8	8.42E-04	-0.057429449	8	1.38E+00
12	6.90E-01	0.008208086	12	1.22E+00
12	4.91E-01	0.310654801	12	1.06E-01
7	1.05E+00	-0.072875151	7	1.36E+00
22	1.51E-10	0.248711076	22	9.19E-02
8	3.27E+00	-0.529106772	8	2.24E+01
12	7.90E-01	-0.013748248	12	1.46E+00
4	1.69E-01	-0.491759481	4	4.66E+00
6	1.32E-01	-0.293244992	6	3.51E+00
5	6.35E-01	-0.934034173	5	4.32E+01
35	5.12E+00	0.227862023	35	6.09E-02
8	5.92E-01	-0.03333169	8	1.20E+00
2	4.61E-01	-0.216339527	2	1.15E+00
2	1.07E+00	-0.043113302	2	7.24E-01
13	3.65E+00	0.229336623	13	1.94E-01
10	1.22E+01	2	10	2.70E-05
16	7.63E+03	2	16	1.32E-11
31	2.98E-10	0.322035898	31	1.34E-02
21	5.64E-09	0.251956858	21	9.39E-02
3	9.57E-01	-0.243665709	3	1.51E+00
12	1.45E-01	0.159486674	12	3.60E-01
1	4.58E-01	0.00986709	1	5.90E-01
6	8.39E-04	-0.343761791	6	4.48E+00
33	3.99E+01	-0.227784715	33	4.80E+02
10	1.69E+00	0.14153626	10	4.21E-01
15	3.34E-01	-0.033986315	15	2.24E+00
6	2.98E-01	-0.022127564	6	9.52E-01
4	1.72E-01	0.097961958	4	5.16E-01
6	1.45E-01	0.36821133	6	1.45E-01
1	5.36E-01	0	1	6.02E-01

10	1.23E+00	-0.214229254	10	5.06E+00
10	2.02E+01	-0.277270566	10	7.86E+00
9	9.06E+00	-0.248672004	9	5.24E+00
10	4.34E+01	0.123100441	10	4.79E-01
26	1.42E+00	0.008522683	26	3.05E+00
18	2.38E+03	0.647942812	18	1.29E-03
13	4.95E+01	0.715235473	13	2.95E-03
17	1.72E-01	-0.093599969	17	5.08E+00
13	3.67E-01	0.047329319	13	9.31E-01
14	3.87E+03	-0.023748613	14	1.87E+00
9	4.39E+00	-0.510530296	9	2.83E+01
8	1.42E-01	0.121933829	8	4.79E-01
23	3.75E-01	-0.000881127	23	2.86E+00
6	4.29E+01	-0.311232418	6	3.83E+00
25	4.78E+10	-0.262043664	25	1.71E+02
4	2.35E-01	-0.118713897	4	1.16E+00
4	8.00E-02	0.531743691	4	1.02E-01
10	2.95E+01	0.024181905	10	9.57E-01
2	6.15E+00	0.641019825	2	1.18E-01
23	2.99E+00	-0.05026447	23	5.72E+00
15	3.27E+01	-0.450127635	15	1.27E+02
13	6.82E+01	-0.643401695	13	3.57E+02
4	9.04E-01	-0.205519417	4	1.60E+00
14	1.03E-02	0.13084094	14	4.53E-01
16	8.32E+02	-0.212044514	16	1.51E+01
13	6.46E+02	-0.463839048	13	7.60E+01
15	6.00E-01	2	15	4.34E-07
11	3.98E+01	0.363834637	11	7.86E-02
12	6.59E-01	-0.600461188	12	1.66E+02
6	1.56E+00	-0.104347767	6	1.41E+00
5	2.35E+00	-0.061247467	5	1.04E+00
15	1.13E+03	-0.245385188	15	1.74E+01
1	1.17E-01	-0.538155613	1	1.87E+00
1	2.73E+00	-0.720724572	1	2.75E+00
3	4.61E+01	-2	3	8.46E+01
6	9.51E-01	0.05229005	6	6.65E-01
2	7.52E-01	-0.524154076	2	2.59E+00
1	7.25E-01	-0.58482535	1	2.06E+00
3	1.40E+00	-0.292569039	3	1.76E+00
3	6.69E-01	-0.091198869	3	9.27E-01
2	5.64E-01	0	2	6.46E-01
1	5.36E-01	0	1	6.02E-01
3	5.97E-01	0	3	6.93E-01
1	5.39E-01	0	1	6.02E-01
3	7.48E-01	0	3	6.93E-01
3	8.99E-01	0	3	6.93E-01
4	2.96E+01	-0.832097448	4	1.66E+01

1	5.60E-01	-0.073508591	1	7.03E-01
5	1.10E+00	0.163164455	5	3.97E-01
12	8.58E+03	1	12	2.47E-04
9	2.24E+00	-0.459938096	9	2.05E+01
18	2.62E+02	-0.502489759	18	5.88E+02
9	9.84E-01	-0.237803316	9	4.89E+00
3	5.82E-01	-0.190719557	3	1.27E+00
2	1.08E+00	0.0755081	2	5.29E-01
10	1.85E+00	-0.174272133	10	3.83E+00
8	5.99E+00	-0.353126615	8	7.91E+00
7	1.04E+00	-0.139396797	7	1.94E+00
5	1.35E+02	-0.044791983	5	9.66E-01
5	9.70E-01	0.295307735	5	2.26E-01
12	9.16E+00	-0.312496972	12	1.62E+01
7	1.73E+01	0.025306343	7	8.01E-01
9	6.59E+00	-0.315522448	9	8.07E+00
5	8.91E+00	-0.116018487	5	1.31E+00
4	6.31E-01	-0.007532573	4	7.64E-01
103	9.21E+28	-0.749474705	103	3.79E+21
4	8.74E+01	-0.801788006	4	1.48E+01
4	6.52E-01	-0.01758891	4	7.94E-01
2	7.56E-01	-0.324265825	2	1.52E+00
1	7.15E-01	-0.088784704	1	7.26E-01
5	1.81E-01	-0.209860989	5	1.96E+00
77	7.57E-04	0.706895626	77	6.35E-12
13	1.58E+02	-0.409778923	13	4.77E+01
11	5.37E-01	-0.050864581	11	1.78E+00
16	1.55E+05	-0.622990605	16	1.02E+03
3	1.78E+00	0.12055867	3	4.72E-01
4	3.13E+00	-0.609308531	4	7.23E+00
7	6.24E+00	-0.249014909	7	3.49E+00
2	2.81E+00	-0.897165647	2	6.95E+00
33	7.73E+06	-0.553595606	33	2.72E+05
2	6.91E-01	-0.12144116	2	8.91E-01
4	2.20E+00	0.151567921	4	4.22E-01
2	3.42E+00	-0.066352791	2	7.70E-01
4	2.01E+01	-0.351070483	4	2.76E+00
4	6.65E+02	-0.190423803	4	1.51E+00
3	3.91E-01	0.136977121	3	4.47E-01
17	9.32E-01	-0.126525545	17	7.25E+00
5	4.81E-01	-0.099347371	5	1.22E+00
3	4.40E-01	-0.268495373	3	1.63E+00
5	9.33E+00	-0.507243093	5	6.97E+00
2	1.09E+00	-1	2	1.97E+01
3	2.19E+01	-0.612729885	3	4.90E+00
5	3.53E+01	-0.478325593	5	6.16E+00
12	4.05E+00	-0.186851169	12	5.89E+00

5	5.08E+00	-0.03066417	5	9.09E-01
8	1.33E+01	0.643079272	8	2.21E-02
7	7.50E+00	0.06229584	7	6.57E-01
1	8.27E-01	-0.602524007	1	2.14E+00
3	2.21E+00	-0.390696394	3	2.41E+00
5	8.00E-01	-0.397384343	5	4.36E+00
5	1.15E+01	-0.708973487	5	1.65E+01
3	1.20E+00	-0.279006365	3	1.69E+00
6	1.22E+00	-0.495567698	6	9.31E+00
7	2.16E+02	-0.514479156	7	1.45E+01
6	1.80E+00	0.305333756	6	1.96E-01
2	1.26E+00	0.014218551	2	6.22E-01
9	3.03E+02	-0.006955432	9	1.10E+00
22	3.78E+11	-0.831701118	22	1.97E+05
16	2.05E+07	0.132602995	16	4.44E-01
4	8.05E-01	-0.564639316	4	6.12E+00
3	5.90E-01	-0.003244328	3	7.00E-01
5	4.66E-01	-0.206416064	5	1.93E+00
6	1.44E+00	-0.507225586	6	9.85E+00
2	9.31E-01	0.063334156	2	5.46E-01
3	7.79E-02	-1	3	3.04E+01
3	1.56E+00	-0.463742501	3	3.04E+00
2	5.74E-01	-0.01795692	2	6.77E-01
14	1.06E+00	0.125935353	14	4.74E-01
43	1.69E-02	0.159885802	43	2.16E-01
6	2.99E+00	-0.425892144	6	6.66E+00
10	1.25E+03	0.051450297	10	7.91E-01
4	2.99E+00	-0.440332365	4	3.85E+00
8	1.13E+02	-0.044359379	8	1.28E+00
7	2.73E+03	-2	7	3.64E+03
7	1.12E+03	-0.625198716	7	2.62E+01
5	3.43E-01	-0.451835559	5	5.50E+00
44	6.41E-02	0.658743156	44	6.60E-07
6	9.93E-01	-0.265056928	6	3.07E+00
1	5.46E-01	-0.024446129	1	6.34E-01
3	1.02E+00	-0.509975126	3	3.53E+00
1	5.60E-01	-0.014495455	1	6.21E-01
3	1.51E+00	-0.15951108	3	1.15E+00
3	5.45E+00	-1	3	1.82E+01
7	7.73E-02	0.003098659	7	9.03E-01
21	1.06E+01	1	21	3.78E-07
5	7.95E-01	-0.075473588	5	1.10E+00
2	2.63E+00	-0.222974104	2	1.17E+00
3	2.60E+00	-0.132116796	3	1.06E+00
1	1.69E+00	-0.28943181	1	1.11E+00
4	2.57E+01	0.703324537	4	5.38E-02
16	2.52E+02	-0.049774153	16	2.88E+00

2	6.28E-01	-0.018720916	2	6.79E-01
10	1.96E+01	-0.715000197	10	1.67E+02
35	5.14E+01	-0.151455954	35	1.47E+02
18	2.52E+00	-0.196635972	18	1.84E+01
18	3.18E+00	-0.114200145	18	7.24E+00
14	5.94E+01	-0.138721281	14	5.34E+00
22	1.32E+04	-0.238581061	22	6.58E+01
10	6.64E-01	-0.175935128	10	3.87E+00
10	2.80E+00	-0.100099857	10	2.28E+00
12	8.21E+00	-0.069926256	12	2.29E+00
7	3.40E-01	0.053504589	7	6.89E-01
3	6.51E-01	-0.136440741	3	1.07E+00
120	8.29E+00	0.310965962	120	2.59E-06
11	6.30E-01	1	11	1.54E-05
8	3.47E-02	3	8	7.39E-08
18	7.54E-02	-0.768098683	18	1.19E+04
60	8.45E+02	0.055341732	60	5.76E+00
1	5.20E-01	0.039026557	1	5.54E-01
2	1.67E+01	-0.593687188	2	3.11E+00
13	1.33E+01	-0.322892647	13	2.26E+01
9	3.31E+01	-0.004772529	9	1.09E+00
12	2.60E+04	-0.805647373	12	8.69E+02
6	5.49E+02	-0.594675083	6	1.50E+01
8	5.69E+01	-0.01541809	8	1.08E+00
6	1.04E+02	-2	6	5.62E+03
4	2.34E+01	-0.450348848	4	3.99E+00
17	1.51E-01	0.343031397	17	4.59E-02
5	6.22E-04	-0.075209862	5	1.10E+00
4	5.42E-02	0.033162845	4	6.57E-01
25	5.23E-02	0.366654282	25	1.27E-02
2	5.27E-01	0.244029384	2	3.38E-01
1	3.40E-01	0	1	6.02E-01
7	5.24E+01	0.324801849	7	1.61E-01
8	3.53E+00	-0.338900919	8	7.28E+00
23	4.47E+03	-0.090127112	23	1.00E+01
3	2.85E-01	1	3	1.29E-02
4	5.56E-01	0.20770399	4	3.42E-01
4	3.25E-01	1	4	6.81E-03
35	8.01E-06	0.272406832	35	2.44E-02
6	1.08E-01	0.14559589	6	4.24E-01
9	7.40E-02	0.086571519	9	6.05E-01
2	2.80E-01	0.82022028	2	7.35E-02
9	1.15E+02	0.886877553	9	3.48E-03
7	4.55E+00	-0.136460267	7	1.91E+00
11	6.47E+00	-0.302151749	11	1.18E+01
5	9.26E-01	0.031096742	5	6.98E-01
4	3.46E+00	-0.013746815	4	7.82E-01

17	5.51E-04	0.315838709	17	6.15E-02
10	9.25E-01	0.34729809	10	1.00E-01
11	5.34E-01	0.08754523	11	6.29E-01
8	3.46E+00	0.579851612	8	3.21E-02
6	2.36E+01	0.037309859	6	7.15E-01
52	1.39E-06	0.005239683	52	1.85E+01
4	6.24E-01	-0.00882374	4	7.68E-01
19	1.43E+08	-0.024219815	19	2.84E+00
19	4.60E+07	0.764257654	19	2.46E-04
9	1.89E+02	2	9	1.30E-06
6	5.02E+01	2	6	8.08E-05
60	7.62E+01	-0.123005753	60	2.52E+03
5	3.57E+00	-0.065615664	5	1.06E+00
5	4.60E+01	-0.67943999	5	1.46E+01
15	1.86E-03	-0.196848605	15	1.09E+01
4	9.78E-03	-0.901168835	4	2.15E+01
5	3.01E-04	0.872383229	5	1.91E-02
6	2.86E+00	0.768687288	6	2.11E-02
8	5.36E-01	-0.497067459	8	1.85E+01
7	2.62E-01	-0.021587863	7	1.03E+00
2	3.99E-01	0.214454264	2	3.66E-01
1	4.08E-01	0.127039181	1	4.61E-01
21	9.34E-05	0.540348901	21	2.24E-03
9	7.51E-01	-0.155465396	9	2.88E+00
8	1.04E-02	0.418176116	8	8.34E-02
21	4.25E+04	-0.923760218	21	3.85E+05
11	5.18E+02	-0.668960439	11	1.87E+02
10	2.81E+01	-0.073092229	10	1.89E+00
40	1.31E+05	1	40	5.26E-11
18	3.53E-02	0.345847736	18	3.96E-02
11	6.37E+00	0.795367764	11	3.05E-03
12	3.21E-04	-0.111838626	12	3.22E+00
5	8.41E+02	0.501496572	5	9.34E-02
7	9.02E+02	-0.888709558	7	1.07E+02
16	1.25E+01	0.182009096	16	2.68E-01
10	4.19E+04	1	10	9.72E-05
6	9.05E-04	0.268629426	6	2.34E-01
6	6.96E-04	2	6	5.96E-04
5	3.27E-02	1	5	1.86E-03
6	1.00E+00	-0.580724506	6	1.40E+01
4	2.79E+00	-1	4	1.65E+02
8	3.73E-02	-1	8	1.35E+03
3	2.29E-01	-0.451671073	3	2.93E+00
3	3.50E-01	-0.044199469	3	7.98E-01
8	1.43E+00	-2	8	1.86E+04
11	4.78E+00	-1	11	9.36E+03
2	1.91E+00	-0.528560222	2	2.62E+00

10	1.32E+00	-0.327400797	10	1.12E+01
8	1.98E+01	0.28010662	8	1.88E-01
7	2.95E+02	0.069958235	7	6.31E-01
13	3.34E+01	-0.189231837	13	7.14E+00
12	9.53E+01	0.305851841	12	1.10E-01
12	2.01E+02	0.707457622	12	4.32E-03
36	2.82E+03	-0.216138365	36	6.71E+02
9	3.98E-01	-0.155779261	9	2.88E+00
14	2.02E-01	0.777761824	14	1.21E-03
3	1.14E+00	0.957815231	3	3.26E-02
8	2.00E-01	0.182170519	8	3.36E-01
6	1.06E-01	0.035334672	6	7.21E-01
6	2.34E-01	1	6	6.82E-03
8	1.16E+00	-0.279041595	8	5.11E+00
6	7.56E-01	0.18974978	6	3.43E-01
8	6.72E+00	2	8	3.18E-05
3	5.93E-01	-0.087412647	3	9.16E-01
38	7.28E+00	-0.16987879	38	3.50E+02
6	9.00E-01	-0.107058101	6	1.43E+00
5	9.41E-01	0.027229889	5	7.10E-01
3	5.93E-01	-0.109307734	3	9.82E-01
6	1.21E+00	0.404517891	6	1.22E-01
10	4.38E+00	-0.149906705	10	3.23E+00
8	2.61E+02	-0.796137841	8	1.08E+02
5	3.57E+00	-0.062575445	5	1.04E+00
8	6.06E-01	0.401282422	8	9.22E-02
7	9.46E-01	0.074786545	7	6.15E-01
1	5.36E-01	0	1	6.02E-01
3	5.93E-01	-0.252850549	3	1.55E+00
10	2.15E+01	-0.435659157	10	2.38E+01
4	1.54E+00	0	4	7.43E-01
8	1.20E+00	0.133671561	8	4.47E-01
7	1.07E+01	-1	7	2.52E+02
3	9.60E-01	-0.458468435	3	2.99E+00
3	6.08E-01	0	3	6.93E-01
2	6.16E-01	-0.181273239	2	1.04E+00
4	3.49E-01	0.705082075	4	5.34E-02
10	1.13E+01	-0.767922631	10	2.42E+02
5	6.55E+00	0.519495195	5	8.65E-02
7	1.58E+00	-0.268079609	7	3.86E+00
5	1.35E+00	-0.119173524	5	1.33E+00
11	3.92E+01	-0.133353579	11	3.32E+00
11	8.91E-01	-0.029955038	11	1.52E+00
7	6.70E-02	-0.609574367	7	2.41E+01
6	4.35E-01	-0.408583443	6	6.12E+00
8	7.71E-01	-0.01371507	8	1.07E+00
7	4.61E+02	0.140308156	7	4.33E-01

2	6.19E-01	0.122751264	2	4.66E-01
3	1.22E+00	-0.15175304	3	1.12E+00
3	5.93E-01	0	3	6.93E-01
2	5.62E-01	-0.004643877	2	6.54E-01
6	3.41E+01	-0.957139541	6	8.61E+01
3	2.51E+00	-0.394837359	3	2.44E+00
5	4.95E-01	0.240359239	5	2.85E-01
8	1.03E+00	-0.058935416	8	1.39E+00
2	5.64E-01	0.039230783	2	5.82E-01
8	1.38E+04	-0.946131802	8	2.62E+02
3	4.46E-01	-0.004570111	3	7.03E-01
3	5.93E-01	-0.155183247	3	1.14E+00
2	5.73E-01	-0.007434022	2	6.59E-01
3	6.15E-01	0.445879712	3	1.67E-01
7	1.61E+01	0.291089412	7	1.93E-01
6	1.05E+00	0.195355289	6	3.34E-01
10	2.28E+00	-0.031454257	10	1.41E+00
9	2.78E-01	0.454778991	9	5.64E-02
6	2.16E-01	0.043057362	6	6.95E-01
10	1.76E+02	0.296291935	10	1.43E-01
7	5.66E-03	1	7	5.78E-04
9	2.59E-01	-0.369443297	9	1.14E+01
4	8.19E+00	-0.110572033	4	1.12E+00
20	5.86E+04	0.014378178	20	1.91E+00
4	2.42E+01	-1	4	8.37E+01
4	1.58E+03	-0.586136521	4	6.63E+00
8	2.36E+01	0.299474326	8	1.68E-01
15	1.09E+00	0	15	1.61E+00
6	6.91E-01	0	6	8.55E-01
10	5.73E+00	-0.287754784	10	8.46E+00
11	2.04E-02	0.833824236	11	2.28E-03
14	1.26E+02	0.33923318	14	6.72E-02
3	1.33E+00	-0.342693592	3	2.07E+00
9	2.93E-01	0.383050235	9	8.95E-02
13	3.88E-02	0.242136454	13	1.74E-01
5	8.37E-01	-0.617807553	5	1.12E+01
19	6.40E-01	-0.166543027	19	1.54E+01
57	3.25E-02	0.007247007	57	2.43E+01
7	3.64E-01	0.359565963	7	1.34E-01
2	2.93E+01	-1	2	2.16E+01
2	4.47E-01	-0.001835725	2	6.49E-01
3	3.80E-01	-0.31384653	3	1.89E+00
4	4.80E+01	0.135780144	4	4.48E-01
5	1.27E+01	-0.027345023	5	8.96E-01
6	7.96E-01	-0.302304532	6	3.67E+00
8	1.67E+01	-0.346363143	8	7.60E+00
46	6.16E+00	-0.517576061	46	1.29E+07

5	4.66E-01	-0.601657085	5	1.04E+01
14	3.78E+00	0.056822032	14	8.92E-01
3	1.29E-01	-0.892722613	3	1.20E+01
27	5.03E+00	-0.448293032	27	5.34E+03
6	3.84E+00	-0.537069929	6	1.14E+01
9	3.55E+01	-0.268225955	9	5.95E+00
2	5.64E-01	-0.032969812	2	7.05E-01
6	7.14E-01	-0.0123992	6	9.08E-01
13	1.41E+00	0.118001718	13	5.06E-01
4	1.32E+01	0.40791565	4	1.62E-01
2	8.08E-01	-0.188129151	2	1.06E+00
13	1.27E+00	-0.786622204	13	1.23E+03
5	1.24E+00	-0.878991811	5	3.42E+01
7	2.08E+00	-0.141852498	7	1.96E+00
1	5.36E-01	0	1	6.02E-01
1	5.36E-01	0	1	6.02E-01
4	6.24E-01	0	4	7.43E-01
14	1.14E+00	0	14	1.50E+00
9	8.05E-01	0	9	1.06E+00
4	6.24E-01	0	4	7.43E-01
10	1.05E+01	-0.210337174	10	4.93E+00
15	1.05E+00	-0.005040502	15	1.69E+00
9	5.62E+01	-0.628974506	9	6.08E+01
4	3.72E+02	-2	4	4.40E+02
2	6.56E-01	-0.665094518	2	3.76E+00
33	8.30E+03	-0.275707949	33	1.22E+03
4	1.56E+00	-0.818875366	4	1.58E+01
7	2.39E+00	-0.184617221	7	2.47E+00
9	6.16E+02	-0.667787892	9	7.81E+01
9	6.86E+00	-0.774844802	9	1.56E+02
3	1.72E+00	-0.614079734	3	4.92E+00
5	1.41E+00	0.044737984	5	6.59E-01
4	2.53E+00	-0.051941918	4	9.02E-01
1	5.11E-01	-0.015937023	1	6.22E-01
9	1.41E+00	-0.162586432	9	3.01E+00
8	1.77E+00	-0.042662708	8	1.27E+00
2	6.41E-01	-0.182820736	2	1.05E+00
3	5.93E-01	-0.051356901	3	8.16E-01
4	7.77E+00	-1	4	3.38E+01
12	3.82E-01	-0.892788005	12	1.76E+03
4	1.87E+00	1	4	3.72E-03
11	1.08E-01	0.370652192	11	7.46E-02
5	4.72E-01	0.019808513	5	7.33E-01
8	5.50E-05	0.441709251	8	7.26E-02
11	1.88E-06	1	11	5.93E-05
17	1.12E-04	0.759179433	17	5.17E-04
5	2.13E-03	0.421959699	5	1.31E-01

10	1.29E-01	-0.083788825	10	2.03E+00
31	3.60E-01	-0.288015867	31	9.84E+02
8	4.07E-01	-0.26692256	8	4.76E+00
8	8.35E-01	-0.116185425	8	1.95E+00
13	3.78E-02	0.915063531	13	5.28E-04
17	1.04E-08	0.595451895	17	3.02E-03
8	2.42E-02	3	8	2.85E-08
6	9.55E-01	0.613797175	6	4.45E-02
2	6.91E-01	-0.069428547	2	7.76E-01
3	1.53E+00	0.482574169	3	1.49E-01
4	3.29E+00	2	4	4.94E-04
9	2.17E-01	0.732615651	9	9.40E-03
6	6.73E-01	0.105320692	6	5.15E-01
6	6.12E+01	0.773024039	6	2.06E-02
13	8.08E+01	0.296640561	13	1.09E-01
3	1.06E-01	0.160636073	3	4.15E-01
1	5.14E-01	-0.041211073	1	6.57E-01
6	2.02E-01	-0.710567995	6	2.62E+01
6	8.49E-02	-0.046233941	6	1.07E+00
7	7.35E-01	0.044548511	7	7.23E-01
5	4.04E+00	-0.232970681	5	2.16E+00
8	1.40E+01	-0.234190814	8	3.92E+00
9	1.31E+01	-0.124536227	9	2.36E+00
36	7.01E+00	-0.123217541	36	9.46E+01
3	1.38E+00	-0.372748513	3	2.28E+00
3	3.98E+00	-0.450862099	3	2.92E+00
12	1.78E+05	-0.885640826	12	1.66E+03
19	4.32E+06	-0.60880261	19	2.93E+03
18	3.11E+03	-0.016838037	18	2.41E+00
5	4.29E+00	-0.615382403	5	1.11E+01
5	1.64E+00	-0.174327939	5	1.68E+00
3	4.09E+00	-0.016138436	3	7.29E-01
14	3.93E+05	-0.576354832	14	2.94E+02
8	1.22E+00	0	8	9.84E-01
2	5.72E-01	-0.00075453	2	6.47E-01
3	8.05E-01	-0.508482814	3	3.51E+00
61	1.10E-02	-0.007035878	61	5.21E+01
15	1.74E-01	-0.186143285	15	9.79E+00
18	7.38E-01	0.464739522	18	1.03E-02
16	5.30E+00	-0.11121173	16	5.39E+00
24	2.56E+01	-0.482597796	24	3.44E+03
18	1.37E-01	-0.090239542	18	5.52E+00
26	2.47E+03	-0.391533371	26	1.61E+03
67	1.16E+05	-0.35704034	67	4.67E+07
3	3.59E-01	0.906507396	3	3.84E-02
6	8.32E-01	0.373118694	6	1.42E-01
2	5.64E-01	0	2	6.46E-01

11	2.09E+02	-0.569911128	11	8.87E+01
3	5.93E-01	0	3	6.93E-01
6	1.25E+01	-0.23272897	6	2.62E+00
5	1.15E+01	-0.114781223	5	1.30E+00
7	8.70E-01	-0.333183535	7	5.47E+00
3	3.82E-01	-0.39643227	3	2.45E+00
4	1.92E-01	0.568415145	4	8.90E-02
42	6.61E+03	1	42	2.52E-15
3	3.74E-02	2	3	1.06E-03
17	1.89E+00	-0.042566995	17	2.93E+00
5	2.35E-01	-0.135168912	5	1.42E+00
7	2.04E+00	-0.198818884	7	2.66E+00
13	5.23E+06	0.131917616	13	4.49E-01
7	1.17E+00	-0.08093251	7	1.42E+00
7	1.62E+03	-0.936468362	7	1.39E+02
17	1.05E+06	-0.427678614	17	1.86E+02
10	1.91E+00	-0.095028623	10	2.20E+00
28	2.08E+07	-0.659235555	28	2.50E+05
1	2.02E+00	-0.43105574	1	1.49E+00
13	3.61E+01	-0.317044094	13	2.15E+01
18	2.29E-04	-0.319521577	18	7.41E+01
10	9.13E-03	-0.17477809	10	3.84E+00
8	1.57E-01	-0.168527914	8	2.66E+00
6	5.27E+00	-0.141461878	6	1.69E+00
7	5.97E+00	0.275218663	7	2.10E-01
35	4.01E-04	0.128249922	35	4.71E-01
3	7.19E-01	0.095772579	3	5.10E-01
7	1.22E+00	-0.065593207	7	1.30E+00
8	4.33E+00	0.259729527	8	2.13E-01
6	3.59E-02	0.1251284	6	4.68E-01
14	3.24E+01	-0.769548241	14	1.72E+03
22	3.55E-02	-0.01249973	22	3.12E+00
15	2.82E-04	0.194258466	15	2.45E-01
13	7.76E-01	0.289684212	13	1.15E-01
13	3.95E-05	0.791198856	13	1.54E-03
28	3.37E+02	0.015143861	28	3.11E+00
6	4.25E+00	-0.089396751	6	1.32E+00
6	1.54E+00	-0.508307997	6	9.90E+00
9	2.64E+00	-0.001988785	9	1.07E+00
3	5.81E-01	-0.23869532	3	1.48E+00
5	2.62E-01	-0.293048244	5	2.79E+00
3	6.00E-01	0.218392679	3	3.45E-01
6	7.86E-01	-0.007273372	6	8.86E-01
20	2.95E+06	-0.828099547	20	6.63E+04
4	1.50E+01	0.065425653	4	5.82E-01
4	1.48E+00	-1	4	6.97E+01
17	2.69E+06	-0.657515666	17	2.22E+03

13	7.42E-01	-0.369927531	13	3.38E+01
8	7.36E-01	-0.450730118	8	1.41E+01
8	7.96E-03	0.083055941	8	6.03E-01
15	3.02E+00	-0.93875415	15	1.45E+04
9	1.73E-01	-0.310613682	9	7.82E+00
13	6.58E-06	0.533634318	13	1.41E-02
8	2.04E-04	0.17634062	8	3.48E-01
3	1.49E-03	1	3	8.34E-03
5	1.45E-03	0.937451784	5	1.45E-02
167	3.52E-53	0.673479021	167	8.05E-23
3	1.16E+00	0.033688169	3	6.22E-01
7	1.94E-04	0.187153305	7	3.37E-01
5	8.69E-02	1	5	2.71E-03
31	2.04E-03	-0.579231562	31	2.07E+05
59	1.70E-05	0.063458527	59	4.22E+00
5	1.45E+00	-0.262007701	5	2.44E+00
10	6.30E+02	-0.012149482	10	1.23E+00
11	5.48E+02	0.566090964	11	1.71E-02
2	9.15E-01	-0.191679612	2	1.07E+00
2	2.65E-01	-0.162914869	2	9.94E-01
37	2.26E+01	-0.227666893	37	1.04E+03
2	5.00E-01	0	2	6.46E-01
17	1.38E-01	-0.52508602	17	5.33E+02
21	7.03E-03	-1	21	1.15E+06
9	1.48E+00	0.118864962	9	4.91E-01
8	1.69E+01	0.572530111	8	3.35E-02
9	1.33E-02	0.878641648	9	3.67E-03
58	1.38E-10	0.194508239	58	5.38E-02
12	3.46E-01	-0.126352307	12	3.62E+00
7	5.29E-02	-0.361309414	7	6.36E+00
2	5.61E-01	-0.022035813	2	6.85E-01
12	2.10E+05	0.516461853	12	2.02E-02
12	3.55E+02	2	12	4.16E-06
9	5.83E+00	1	9	8.29E-05
3	6.86E-01	0.514912973	3	1.34E-01
6	6.91E-01	0.60368692	6	4.67E-02
5	9.35E-01	0.331687922	5	1.93E-01
10	2.30E+01	0.662618595	10	1.11E-02
3	5.93E-01	-0.076319945	3	8.84E-01
5	6.57E-01	-0.000671709	5	8.00E-01
7	2.32E-01	0.099445348	7	5.38E-01
4	7.07E-01	0.883270468	4	2.75E-02
5	1.30E+01	-0.427858976	5	4.97E+00
6	1.11E+00	-0.256477727	6	2.94E+00
13	1.17E+01	0.171397639	13	3.20E-01
10	2.09E+00	0.156728976	10	3.79E-01
2	7.57E-01	0.00779482	2	6.33E-01

1	1.01E+01	-0.204152625	1	9.25E-01
12	2.72E+00	-0.439786645	12	4.54E+01
1	5.36E-01	0	1	6.02E-01
6	1.01E+00	0.658586788	6	3.58E-02
4	6.24E-01	-0.110475445	4	1.12E+00
6	1.44E+00	-0.147111749	6	1.74E+00
9	1.49E+02	0.196436067	9	2.98E-01
3	3.29E+00	-0.005051063	3	7.04E-01
12	2.11E+01	0.223001986	12	2.16E-01
7	9.74E+00	-0.560678762	7	1.85E+01
7	7.58E+00	-0.219472957	7	2.98E+00
4	6.24E-01	0	4	7.43E-01
8	6.38E-03	1	8	6.09E-04
8	1.05E+00	-0.115029192	8	1.94E+00
8	1.34E+00	0.324143541	8	1.45E-01
7	4.58E+02	-0.542650488	7	1.68E+01
30	2.58E-03	-0.428281306	30	9.57E+03
6	7.47E+00	-1	6	2.62E+02
9	2.10E-02	-1	9	5.01E+03
4	8.70E-02	0.509756848	4	1.11E-01
9	3.39E-01	0.551297566	9	3.03E-02
24	2.22E+00	2	24	1.07E-13
2	1.82E-02	-0.44746393	2	2.11E+00
3	1.48E-03	0.720298964	3	6.96E-02
12	4.09E-03	1	12	3.95E-04
3	8.93E+00	-0.969501857	3	1.53E+01
4	3.80E+01	-0.494511015	4	4.71E+00
1	6.58E-01	0.031946365	1	5.63E-01
10	6.87E+03	-0.423875106	10	2.19E+01
31	4.31E+02	-0.18759522	31	1.56E+02
12	1.03E-02	0.110276003	12	5.35E-01
17	4.73E+01	0.66110011	17	1.49E-03
6	1.34E-02	-0.680909252	6	2.27E+01
12	4.95E-03	-0.150263006	12	4.38E+00
9	1.92E-01	-0.040704768	9	1.37E+00
5	6.70E-01	-0.139978632	5	1.45E+00
11	1.17E-01	-0.23914866	11	7.36E+00
12	3.40E+01	0.110352535	12	5.35E-01
5	2.32E+00	-0.021730903	5	8.75E-01
8	3.28E+00	0.824485847	8	7.58E-03
8	5.85E+00	-0.186491464	8	2.96E+00
6	1.73E-01	-0.384511618	6	5.45E+00
9	3.63E-02	0.001429474	9	1.05E+00
13	2.37E+01	-0.030852119	13	1.82E+00
7	3.44E+03	-1	7	4.12E+02
11	1.42E+01	0.904867139	11	1.34E-03
18	1.65E+00	0.01545225	18	1.67E+00

11	3.67E+00	-0.408281492	11	2.63E+01
6	8.63E-02	-0.547366188	6	1.20E+01
8	4.12E-02	0.411989257	8	8.65E-02
20	4.03E-07	0.304588193	20	5.22E-02
7	8.20E+00	-0.375752675	7	6.88E+00
11	5.25E+00	-0.510535661	11	5.68E+01
11	7.65E+01	1	11	3.69E-04
5	1.49E+00	-0.09594082	5	1.20E+00
7	2.96E-01	0.426685655	7	9.32E-02
8	9.30E+00	0.71756108	8	1.43E-02
6	7.08E+00	-0.111858389	6	1.47E+00
22	1.80E+03	-0.898275538	22	4.83E+05
11	3.04E+04	-2	11	3.67E+05
7	3.17E-01	-0.037300857	7	1.12E+00
17	2.96E-02	0.273068344	17	9.76E-02
11	3.63E-04	0.660272244	11	8.43E-03
8	4.91E-02	-0.21769047	8	3.56E+00
14	5.92E-05	0.128586114	14	4.62E-01
16	7.34E-04	0.194723526	16	2.35E-01
9	4.09E-02	-0.238267329	9	4.90E+00
10	1.14E-02	0.22246838	10	2.39E-01
8	2.86E-04	0.139997007	8	4.31E-01
12	3.88E-03	0.43558562	12	3.88E-02
7	7.23E-02	1	7	1.81E-03
2	1.20E+00	-0.12605814	2	9.02E-01
3	1.08E+00	-0.475954869	3	3.16E+00
5	3.20E+02	-0.80078996	5	2.45E+01
3	4.73E+00	-0.967367255	3	1.52E+01
3	4.12E+00	-2	3	1.08E+02
5	6.64E+02	-0.200503099	5	1.88E+00
2	9.73E-01	-0.749296068	2	4.70E+00
3	1.18E+00	-0.696967515	3	6.41E+00
5	2.99E-01	-0.883187932	5	3.48E+01
7	4.14E-04	0.289750308	7	1.94E-01
8	3.26E-03	0.37397611	8	1.08E-01
5	5.69E-01	0.477157792	5	1.04E-01
34	9.28E-04	-0.156630238	34	1.40E+02
10	1.12E+02	-1	10	5.17E+03
4	2.06E+01	0.759558048	4	4.36E-02
10	1.20E+01	0.267898234	10	1.74E-01
7	1.59E+00	0.241207454	7	2.52E-01
16	4.31E-02	0.363833738	16	4.16E-02
9	7.06E-01	-0.722858782	9	1.11E+02
1	5.67E-01	-0.547357864	1	1.91E+00
18	1.24E+02	1	18	1.07E-07
2	3.59E-01	-0.131930172	2	9.16E-01
8	6.19E-01	-0.325702443	8	6.73E+00

12	5.53E-01	-0.002041188	12	1.33E+00
7	2.86E+00	0.150947634	7	4.09E-01
6	5.18E-02	0.2066519	6	3.16E-01
19	1.24E-04	0.873802986	19	6.70E-05
24	2.64E-04	0.547018982	24	1.04E-03
9	4.18E-02	-0.305919898	9	7.58E+00
20	2.66E-02	0.417039485	20	1.29E-02
14	8.83E-02	0.348597657	14	6.17E-02
2	8.35E-01	0.023725919	2	6.06E-01
5	7.13E-02	2	5	4.90E-04
9	3.16E+02	-0.194089792	9	3.69E+00
17	1.07E+04	0.12660753	17	4.73E-01
5	1.20E+00	0.363457199	5	1.69E-01
4	2.78E-01	-0.374916937	4	3.01E+00
5	9.21E-01	-0.102004687	5	1.23E+00
6	1.48E-03	-0.457046987	6	7.73E+00
12	8.70E-04	-0.493143969	12	6.98E+01
9	6.76E+00	0.059867912	9	7.18E-01
4	9.29E-01	0.772858411	4	4.15E-02
3	5.93E-01	0.040809843	3	6.08E-01
7	3.36E+01	0.957346124	7	5.42E-03
5	1.12E+01	0.348873165	5	1.79E-01
10	4.67E+01	0.710111816	10	7.94E-03
10	4.46E-04	0.030814672	10	9.14E-01
35	1.39E+02	-0.298130013	35	3.00E+03
2	3.82E-01	-0.012876858	2	6.68E-01
10	1.21E+03	-0.91369361	10	6.71E+02
19	1.43E-01	-0.298940638	19	7.40E+01
8	1.43E+00	-0.228020173	8	3.78E+00
37	2.04E-01	-0.486254171	37	2.79E+05
10	9.21E+01	-0.223722257	10	5.41E+00
8	2.06E-02	-0.596929538	8	3.34E+01
3	1.44E-03	-0.229422686	3	1.44E+00
23	2.10E+01	0.986869437	23	2.73E-06
12	8.34E-02	1	12	2.67E-04
17	2.08E-03	0.203647686	17	2.06E-01
18	4.10E+03	-0.17641834	18	1.47E+01
4	7.53E+00	0.627690767	4	7.13E-02
8	9.14E+01	-0.238339727	8	4.02E+00
10	1.15E+01	-0.02107446	10	1.31E+00
24	1.52E-06	-0.245069537	24	1.08E+02
14	5.13E-05	0.282859663	14	1.13E-01
4	2.31E-03	0.049842032	4	6.17E-01
5	6.38E-01	-0.140292734	5	1.45E+00
7	3.16E+00	-0.898788353	7	1.13E+02
3	2.94E+00	0.227979715	3	3.35E-01
2	1.14E+00	0.275648124	2	3.11E-01

16	1.52E+05	-0.987610047	16	4.26E+04
4	1.87E-02	-0.426643075	4	3.65E+00
14	3.53E-01	-0.068124083	14	2.80E+00
9	2.74E-01	-0.394557386	9	1.34E+01
22	1.27E+02	-0.335324054	22	2.43E+02
7	2.86E+03	-1	7	2.37E+03
2	1.98E-01	-1	2	3.15E+01
12	1.29E-02	0.116556813	12	5.09E-01
12	1.60E-03	-0.212324526	12	7.24E+00
13	2.29E-01	0.696422529	13	3.47E-03
6	8.84E-01	-0.056873858	6	1.12E+00
17	1.83E-02	0.292171176	17	7.94E-02
2	1.02E-01	0.767217179	2	8.46E-02
11	2.06E-03	0.892102911	11	1.47E-03
24	8.58E+00	-0.074931549	24	9.03E+00
1	5.85E-01	-0.306809856	1	1.15E+00
10	1.70E-01	0.508632545	10	3.24E-02
2	5.81E-01	-0.00859506	2	6.61E-01
11	4.10E-02	-0.216690797	11	6.21E+00
5	5.61E-01	0.145658493	5	4.28E-01
3	6.80E-01	-0.152720405	3	1.13E+00
3	1.34E-01	1	3	1.69E-02
7	4.28E-03	2	7	2.94E-04
2	4.83E-04	2	2	1.59E-03
45	3.39E-09	-0.420972232	45	7.40E+05
2	2.09E-01	-1	2	9.95E+00
10	9.92E-02	0.270763082	10	1.71E-01
7	7.42E-01	-0.302136549	7	4.63E+00
7	9.33E+01	-0.171057896	7	2.30E+00
2	6.61E-01	2.07E-05	2	6.46E-01
6	1.44E+01	-0.596589679	6	1.51E+01
16	8.13E+01	-0.354140577	16	6.49E+01
7	2.48E+02	-1	7	2.83E+02
6	1.99E+00	-0.648372522	6	1.94E+01
4	1.50E+00	-0.094470834	4	1.06E+00
5	6.03E-02	0.401351694	5	1.43E-01
6	3.66E-02	0.616054888	6	4.40E-02
64	1.40E-05	1	64	1.86E-21
3	2.56E-01	0.005288045	3	6.81E-01
7	2.75E+00	-0.682495796	7	3.56E+01
6	2.62E+02	-1	6	8.89E+02
10	2.57E+02	-0.082947428	10	2.02E+00
14	9.92E+00	-0.83687219	14	3.19E+03
18	7.43E+00	-0.218189181	18	2.35E+01
6	2.73E-04	-0.39007678	6	5.60E+00
2	1.88E-01	-0.316075357	2	1.49E+00
5	1.27E+01	-0.989376877	5	5.48E+01

4	6.55E-01	-0.787230876	4	1.40E+01
1	5.36E-01	0	1	6.02E-01
3	7.89E-01	-0.203401268	3	1.33E+00
6	2.79E-01	0.020808606	6	7.74E-01
11	1.24E+03	0.44816422	11	4.16E-02
1	5.36E-01	0.06957245	1	5.20E-01
4	7.20E-01	-0.383431824	4	3.11E+00
3	9.41E-01	0.100913357	3	5.02E-01
4	6.24E-01	0.473140337	4	1.27E-01
4	1.11E+00	0.018038545	4	6.95E-01
13	1.21E+04	-0.758693759	13	9.63E+02
18	2.72E-06	0.365106933	18	3.18E-02
6	2.19E-01	-0.642319682	6	1.89E+01
29	1.06E+03	0.090160217	29	9.06E-01
6	8.13E-03	-0.252781619	6	2.89E+00
2	7.95E-01	-0.430333543	2	2.02E+00
5	4.64E+00	0.199273186	5	3.40E-01
6	7.16E-01	0.178655655	6	3.62E-01
9	4.56E-02	0.232618082	9	2.36E-01
4	3.57E+00	-0.794556716	4	1.44E+01
5	7.29E-02	0.748238264	5	3.25E-02
4	8.94E-01	0.233831791	4	3.10E-01
5	4.85E+00	-0.192462267	5	1.82E+00
7	1.49E+02	-0.762501064	7	5.46E+01
10	2.09E+03	-0.511967319	10	4.05E+01
5	1.50E-01	-0.001127432	5	8.01E-01
4	2.15E+01	-0.994748479	4	3.05E+01
7	8.35E-02	0.563610214	7	4.47E-02
5	1.15E+01	0.045027741	5	6.58E-01
2	1.48E-01	0.549043321	2	1.51E-01
16	2.98E+00	-0.657319787	16	1.45E+03
4	8.83E-01	-0.458548371	4	4.12E+00
6	3.81E+00	-0.309873261	6	3.81E+00
5	2.94E+00	-0.236301331	5	2.19E+00
12	6.40E-04	0.070721155	12	7.37E-01
6	3.42E-01	-0.732703612	6	2.92E+01
12	2.78E+00	-0.519730236	12	8.65E+01
3	7.37E+00	-1	3	3.59E+01
6	1.19E+02	-0.94215537	6	8.01E+01
3	1.20E-02	3	3	1.25E-04
8	3.74E-02	0.385832317	8	1.01E-01
32	5.69E+00	2	32	5.21E-15
4	4.11E-01	0.237334759	4	3.06E-01
11	1.01E+01	0.11393643	11	5.15E-01
43	7.88E-14	0.689010523	43	4.14E-07
55	6.95E-07	0.290880494	55	2.90E-03
7	1.35E+00	0.479724983	7	7.01E-02

5	3.15E-01	-0.009926475	5	8.32E-01
8	3.83E+00	-0.632184283	8	4.11E+01
10	7.50E-01	-0.596265115	10	7.30E+01
19	4.08E-01	-0.599332929	19	2.61E+03
62	2.73E-11	-0.322411042	62	3.69E+06
1	6.72E+00	-1	1	9.34E+00
7	4.50E+00	-2	7	6.01E+03
9	1.18E+02	-0.468289942	9	2.16E+01
81	1.09E-06	-0.609217412	81	1.80E+14
4	1.15E+00	-0.999758418	4	3.11E+01
1	5.43E-01	-0.129753927	1	7.91E-01
6	3.09E+00	-0.563941633	6	1.29E+01
7	1.69E-02	0.574565191	7	4.22E-02
9	7.16E-07	1	9	1.73E-04
8	8.35E+02	0.048363283	8	7.40E-01
6	8.16E+00	0.223492428	6	2.91E-01
3	7.85E-01	-0.113767659	3	9.96E-01
7	6.95E-01	0.045249829	7	7.20E-01
8	1.18E+01	-0.416490733	8	1.15E+01
4	1.57E+00	-0.175238348	4	1.43E+00
8	2.86E+02	0.16145119	8	3.80E-01
2	1.26E+00	-0.06245344	2	7.62E-01
44	1.24E+15	-0.381842967	44	2.03E+05
1	5.46E-01	0.13352162	1	4.54E-01
1	5.46E-01	0.13352162	1	4.54E-01
2	3.92E-01	1	2	1.53E-02
3	1.04E+00	0.747278836	3	6.38E-02
5	1.62E+00	-0.196696265	5	1.85E+00
15	3.86E+04	-0.007890261	15	1.74E+00
19	8.55E+00	0.760049012	19	2.58E-04
17	2.69E+02	0.016581024	17	1.55E+00
8	1.13E+00	1	8	1.26E-03
3	1.00E+00	-0.11620315	3	1.00E+00
11	4.71E+00	-0.209322086	11	5.88E+00
3	2.85E-01	0.506739233	3	1.37E-01
13	1.59E+03	-0.336923165	13	2.55E+01
2	1.48E+00	-0.282838661	2	1.37E+00
63	4.54E+04	-0.264499595	63	5.96E+05
5	1.40E+00	-0.30318471	5	2.91E+00
18	1.18E-03	0.744886484	18	4.32E-04
1	4.86E-01	0.036119481	1	5.58E-01
8	7.45E-03	1	8	1.92E-03
5	9.77E-03	1	5	7.26E-03
6	4.67E-01	2	6	2.60E-04
13	1.52E-01	0.164969658	13	3.38E-01
3	8.42E-02	-0.585686208	3	4.49E+00
10	9.46E-03	0.475979287	10	4.07E-02

8	2.76E-03	0.891904358	8	5.09E-03
8	2.98E-01	0.162115014	8	3.78E-01
3	1.35E-01	0.529575193	3	1.28E-01
19	7.50E-09	0.675890103	19	7.01E-04
12	2.83E-08	0.387510522	12	5.72E-02
6	4.32E-05	0.413333	6	1.17E-01
10	9.76E-05	0.445590758	10	5.04E-02
11	3.09E-05	-0.113309384	11	2.85E+00
353	2.91E-72	0.002857686	353	1.92E+10
3	2.61E-01	-0.197008512	3	1.30E+00
8	1.99E-01	0.132937797	8	4.49E-01
5	6.53E-01	0.156073479	5	4.09E-01
2	1.05E+00	-0.215570749	2	1.14E+00
28	5.23E+03	-0.393694637	28	2.93E+03
2	5.70E-01	0	2	6.46E-01
2	5.93E-01	0.008165947	2	6.32E-01
26	2.24E-03	-0.493363319	26	7.91E+03
10	1.77E-05	-0.632900373	10	9.43E+01
14	4.64E-04	0.223182502	14	1.95E-01
27	1.98E+05	-0.209361377	27	1.11E+02
77	9.70E+03	0.892749289	77	2.03E-15
10	8.18E+02	0.077873528	10	6.58E-01
8	1.75E-01	0.055233115	8	7.11E-01
4	1.82E-01	-0.360292033	4	2.85E+00
2	6.03E-01	-0.008288041	2	6.60E-01
3	5.96E-01	0.635581444	3	9.11E-02
3	6.39E-01	0.035360583	3	6.19E-01
13	6.60E-01	0.021182129	13	1.17E+00
10	6.61E-04	0.439104874	10	5.27E-02
20	7.10E+10	-0.782085348	20	3.75E+04
9	1.66E+00	-0.440445241	9	1.80E+01
9	9.12E+00	0.430833238	9	6.58E-02
5	1.67E+00	-0.047048964	5	9.75E-01
23	1.57E+03	-0.808010496	23	2.38E+05
10	3.16E-02	0.075442671	10	6.69E-01
8	1.58E+01	0.087647044	8	5.87E-01
39	1.15E+09	-0.438788524	39	1.85E+05
6	9.08E-01	-0.566322942	6	1.31E+01
11	5.57E+02	-1	11	1.04E+04
11	2.51E-01	-0.078936976	11	2.20E+00
7	5.04E-01	-0.200149188	7	2.68E+00
6	1.41E-01	-0.091277398	6	1.33E+00
8	1.03E+01	-0.456153451	8	1.45E+01
20	6.15E-03	0.351587939	20	2.92E-02
6	1.06E+00	-0.395887023	6	5.76E+00
6	1.21E+00	-0.101991236	6	1.40E+00
10	2.80E-02	0.961329861	10	1.37E-03

19	9.00E-01	0.763949308	19	2.47E-04
6	8.70E-02	0.060309372	6	6.40E-01
5	6.10E-01	0.754732984	5	3.16E-02
13	2.28E+00	-0.626197164	13	3.08E+02
13	1.23E-01	1	13	1.79E-05
2	3.98E-01	1	2	1.61E-02
7	7.62E-02	0.257995708	7	2.30E-01
3	4.72E-01	-0.043253611	3	7.95E-01
8	4.02E+03	-1	8	6.26E+02
7	4.06E+00	-0.47153411	7	1.15E+01
7	5.44E+00	-0.175392879	7	2.35E+00
5	5.17E-01	-0.188577804	5	1.79E+00
8	5.93E-02	-0.044766461	8	1.28E+00
8	2.51E-02	-0.406710452	8	1.09E+01
5	6.92E-02	-0.183099226	5	1.74E+00
15	1.48E-02	0.320285342	15	7.21E-02
5	5.29E-01	0.189090914	5	3.55E-01
13	7.50E+00	0.389184545	13	4.90E-02
8	3.51E+03	-0.651329161	8	4.60E+01
19	3.13E-02	-0.253984276	19	4.34E+01
5	1.35E+00	-0.681781875	5	1.47E+01
13	2.15E+02	-0.464465722	13	7.64E+01
7	1.08E+00	-0.100342943	7	1.57E+00
3	8.78E-01	0	3	6.93E-01
57	1.26E+02	0.648492517	57	2.21E-08
11	2.66E+01	1	11	1.23E-04
5	5.87E-01	0.598449043	5	6.17E-02
11	1.04E+01	-0.677400387	11	1.99E+02
11	2.44E-02	-0.207659455	11	5.80E+00
16	9.93E-06	1	16	4.83E-05
3	3.51E-02	-0.121106861	3	1.02E+00
29	5.01E-02	0.675978807	29	3.62E-05
4	1.11E+00	0.366886015	4	1.89E-01
3	1.52E-03	2	3	3.31E-03
9	2.51E-02	2	9	2.93E-07
2	1.60E-02	0.368259286	2	2.43E-01
20	3.27E+00	-0.449049392	20	6.01E+02
13	3.02E+03	-0.344315477	13	2.71E+01
6	2.00E+00	-0.687561169	6	2.35E+01
2	5.81E-01	0	2	6.46E-01
16	4.21E+00	0.475755059	16	1.32E-02
5	6.67E-01	0.579282556	5	6.70E-02
24	4.19E-03	0.071387115	24	1.07E+00
2	5.56E-01	-0.058189907	2	7.53E-01
26	5.38E+08	0.645113825	26	1.43E-04
13	1.54E+01	-0.534505665	13	1.40E+02
7	7.20E-01	-0.096329885	7	1.54E+00

5	1.20E-01	-1	5	1.30E+02
3	2.89E-01	-0.301808589	3	1.81E+00
11	4.58E-04	0.19899807	11	2.72E-01
8	1.96E-02	0.665214219	8	1.94E-02
10	1.12E+02	-0.699892737	10	1.51E+02
12	1.56E+02	-0.631886786	12	2.14E+02
47	3.59E-02	-0.099101147	47	2.23E+02
6	4.62E-02	-0.308049756	6	3.77E+00
4	4.35E-02	-0.966892924	4	2.75E+01
6	3.70E-04	0.760094985	6	2.20E-02
8	9.25E-04	1	8	1.15E-03
13	8.72E-02	0.611119624	13	7.24E-03
4	3.42E+00	0.474112686	4	1.27E-01
27	9.13E+03	1	27	5.09E-09
9	1.24E+01	-0.5774142	9	4.36E+01
52	2.47E-06	0.110782852	52	8.02E-01
14	1.27E-05	1	14	2.57E-05
6	8.05E+00	-0.239797077	6	2.72E+00
5	9.72E-02	0.186436717	5	3.59E-01
14	4.65E-03	-0.068549965	14	2.81E+00
14	1.14E-03	0.078967552	14	7.28E-01
6	3.70E-02	0.432920374	6	1.06E-01
6	4.15E-01	-0.098488349	6	1.37E+00
9	1.64E-03	-0.248146696	9	5.23E+00
9	4.84E-02	-0.192927525	9	3.66E+00
5	8.27E-03	0.644458568	5	5.07E-02
3	3.09E-01	0.182314133	3	3.87E-01
12	1.44E-01	0.256067052	12	1.65E-01
4	1.62E-01	0.273270758	4	2.68E-01
12	4.99E+01	0.668299899	12	5.93E-03
16	1.98E+02	-0.516136179	16	3.41E+02
12	1.04E-02	0.364416597	12	6.89E-02
14	3.43E-02	0.332741318	14	7.13E-02
16	3.89E-06	0.927373517	16	1.30E-04
13	5.73E+01	2	13	8.55E-09
9	1.00E+02	0.276375989	9	1.78E-01
8	3.66E+03	0.693255268	8	1.65E-02
14	6.08E+08	0.578673582	14	7.51E-03
5	2.09E+01	-0.13923736	5	1.45E+00
6	3.51E+02	0.32340686	6	1.80E-01
4	1.05E+04	0.073368879	4	5.65E-01
35	2.20E-04	0.041692532	35	2.79E+00
31	2.92E-03	-0.241873281	31	4.22E+02
3	9.02E-03	0.722835923	3	6.90E-02
15	1.53E-04	0.102574392	15	5.95E-01
25	4.84E+01	-0.298622921	25	2.97E+02
3	3.48E-01	0.048753579	3	5.93E-01

7	1.01E+01	-1	7	2.47E+02
16	2.80E+00	-0.085894356	16	4.16E+00
5	7.17E-02	0.082101898	5	5.61E-01
2	7.29E-02	1	2	3.48E-02
45	3.57E+01	0.534000142	45	1.26E-05
4	2.37E-01	-0.23140002	4	1.76E+00
12	9.00E+00	0.154708646	12	3.74E-01
4	2.57E-05	1	4	4.11E-03
30	1.53E-05	4	30	4.64E-31
6	4.71E-01	-0.182966017	6	2.07E+00
5	1.69E+00	-0.892179901	5	3.62E+01
11	1.19E-04	-0.621117705	11	1.30E+02
3	2.94E-02	-0.221504317	3	1.40E+00
10	3.85E+00	0.346906035	10	1.00E-01
9	3.67E-02	0.380658949	9	9.09E-02
8	1.62E-03	0.985789536	8	2.93E-03
12	6.16E-06	0.302948933	12	1.13E-01
18	8.17E-02	0.635916855	18	1.48E-03
12	1.52E-05	0.827902326	12	1.63E-03
2	1.84E+00	-0.847139198	2	6.09E+00
4	8.27E-01	-0.824169276	4	1.61E+01
15	2.25E+06	-1	15	1.77E+05
34	2.69E+11	-0.539214851	34	2.95E+05
4	2.31E+01	-0.702219429	4	1.02E+01
5	1.63E+00	-0.239332136	5	2.22E+00
1	5.70E-01	0.022561383	1	5.74E-01
1	5.70E-01	0.022561383	1	5.74E-01
2	2.51E-01	-0.28534174	2	1.38E+00
2	2.69E-01	-0.495027599	2	2.40E+00
5	7.75E-01	-0.448613278	5	5.43E+00
1	5.37E-01	0	1	6.02E-01
1	5.37E-01	0	1	6.02E-01
11	6.24E+01	-0.251142186	11	8.05E+00
6	1.44E+00	-0.405881549	6	6.04E+00
4	1.33E+00	-0.609652373	4	7.24E+00
3	2.47E+00	-0.278342092	3	1.68E+00
1	1.27E+00	-0.072129716	1	7.01E-01
1	5.76E-01	-0.065273255	1	6.91E-01
2	2.62E+00	-0.461188309	2	2.19E+00
3	1.78E+00	-0.596879213	3	4.65E+00
4	4.25E+00	-0.900461979	4	2.14E+01
6	3.72E+02	0.848228043	6	1.44E-02
3	1.08E+01	0.8091929	3	5.24E-02
2	5.51E-01	-0.209373884	2	1.12E+00
11	2.34E-02	1	11	2.50E-04
13	2.84E-03	1	13	8.90E-05
36	1.88E+05	0.310091469	36	1.02E-02

2	2.25E+00	0.010913956	2	6.27E-01
6	6.69E-05	0.696315736	6	2.99E-02
9	8.05E-03	2	9	1.66E-06
4	1.12E-04	1	4	5.76E-03
2	1.60E-01	0.192016511	2	3.88E-01
8	3.65E-02	0.748189262	8	1.19E-02
11	2.70E-03	0.536434599	11	2.14E-02
3	1.56E-01	-0.170991386	3	1.20E+00
7	2.46E-02	0.101551706	7	5.32E-01
7	7.26E-01	-0.000521539	7	9.20E-01
19	4.20E+00	-0.197274589	19	2.22E+01
7	1.08E-01	0.056795759	7	6.77E-01
3	6.82E-01	-0.055391621	3	8.27E-01
17	1.54E+00	1	17	5.51E-06
15	2.22E-07	1	15	5.08E-05
7	2.72E-02	-0.102678064	7	1.59E+00
10	5.33E+00	2	10	1.08E-07
8	9.48E+01	0.215091857	8	2.77E-01
6	1.31E-01	-0.558943983	6	1.26E+01
10	9.38E+02	-0.378258336	10	1.59E+01
20	4.56E+00	0.013365403	20	1.94E+00
6	2.35E+00	-0.516495592	6	1.03E+01
7	3.29E-02	-0.120912434	7	1.75E+00
4	5.52E-02	-0.00521318	4	7.58E-01
5	2.45E+00	0.499073902	5	9.44E-02
2	8.92E-01	-0.396678795	2	1.85E+00
2	1.29E+00	-0.896122931	2	6.93E+00
4	1.90E+00	-0.059639091	4	9.29E-01
13	2.79E+01	0.224487948	13	2.02E-01
11	8.81E-01	0.29084328	11	1.36E-01
6	1.86E+00	-0.242074481	6	2.75E+00
3	1.20E-01	0.491122719	3	1.45E-01
26	6.34E-01	-0.264466929	26	2.19E+02
10	4.16E+00	-0.94218706	10	8.18E+02
5	1.43E+00	-0.43674212	5	5.16E+00
2	4.00E-01	-0.279007829	2	1.35E+00
67	3.93E+05	0.355390422	67	8.83E-05
12	1.04E+00	0.856962541	12	1.29E-03
10	2.24E-03	-0.196175299	10	4.46E+00
4	5.33E-01	-0.084978277	4	1.02E+00
4	6.24E-01	-0.170962551	4	1.41E+00
4	3.03E+00	0.268781506	4	2.72E-01
4	1.26E+00	-0.137272506	4	1.24E+00
35	1.17E-02	-0.063686273	35	2.43E+01
4	1.50E-01	-0.216211516	4	1.67E+00
5	1.40E-01	-1	5	8.22E+01
7	1.96E-01	-0.455292749	7	1.05E+01

3	7.24E-01	-1	3	2.02E+01
3	5.82E-01	0	3	6.93E-01
3	1.23E+00	0	3	6.93E-01
8	8.29E-01	-0.302965998	8	5.89E+00
2	6.65E-01	0.773735752	2	8.32E-02
7	3.93E+01	-0.073972988	7	1.36E+00
1	5.45E-01	-0.088784704	1	7.26E-01
2	6.64E-01	-0.701177938	2	4.14E+00
18	2.76E+00	0.20928026	18	1.86E-01
2	1.41E+01	-0.307313286	2	1.46E+00
46	7.65E-05	-0.132058957	46	4.71E+02
6	4.03E-04	-0.196639476	6	2.21E+00
5	6.52E-02	-0.38917473	5	4.21E+00
5	1.11E+00	-0.152875498	5	1.53E+00
11	8.30E-02	1	11	3.05E-04
2	4.47E-02	1	2	1.76E-02
4	9.03E+00	0.641687554	4	6.77E-02
9	8.57E+00	-0.242713102	9	5.05E+00
2	4.66E-01	-0.076622536	2	7.91E-01
28	3.06E+08	-0.716248496	28	6.49E+05
6	4.18E+01	-0.450023694	6	7.48E+00
2	8.22E-01	-0.510397997	2	2.50E+00
20	2.72E+00	0.45926611	20	7.67E-03
2	6.03E-01	0.021853951	2	6.09E-01
11	2.38E-02	0.273625872	11	1.55E-01
21	4.77E-03	0.203564158	21	1.76E-01
7	1.56E+00	-0.097191568	7	1.54E+00
8	1.42E+03	-0.993599475	8	3.47E+02
7	1.36E-01	0.040280536	7	7.39E-01
8	2.04E+00	-0.134749564	8	2.18E+00
4	4.75E+00	-0.133806037	4	1.22E+00
3	5.91E-01	0.271722233	3	2.91E-01
6	1.68E-03	0.495577648	6	7.86E-02
11	1.19E-04	0.15268601	11	3.85E-01
17	6.27E+02	0.746512688	17	5.92E-04
11	3.79E-02	0.618037094	11	1.16E-02
1	4.17E-01	0.231446107	1	3.70E-01
3	6.80E-02	1	3	1.74E-02
8	1.56E-02	0.561235664	8	3.59E-02
16	1.66E-01	1	16	8.37E-07
9	3.23E+01	-0.239934563	9	4.96E+00
15	9.69E-01	-0.035134397	15	2.26E+00
5	2.80E-02	0.014828218	5	7.48E-01
8	1.13E-03	0.718105264	8	1.42E-02
17	3.73E-07	-0.814609201	17	1.21E+04
8	2.76E+00	-0.23952227	8	4.05E+00
14	4.21E+00	-0.226102417	14	1.19E+01

9	2.03E-01	-0.073997301	9	1.70E+00
20	8.68E+00	0.119037932	20	5.22E-01
7	1.02E-01	-0.117913579	7	1.73E+00
5	1.57E+00	-0.579761548	5	9.51E+00
2	9.63E-01	-0.350394038	2	1.63E+00
3	7.33E-01	-0.208539619	3	1.35E+00
6	7.90E-02	-0.058384159	6	1.13E+00
5	1.03E+01	-0.361127787	5	3.73E+00
35	1.54E-03	-0.043244926	35	1.60E+01
18	4.85E+05	-0.79025238	18	1.53E+04
4	2.42E+00	-0.396136047	4	3.26E+00
3	3.46E+00	-0.712722248	3	6.74E+00
7	1.19E+01	-0.25534211	7	3.61E+00
5	5.65E-01	-0.373237735	5	3.93E+00
5	2.01E-01	0.356372523	5	1.74E-01
36	1.56E-03	0.285636375	36	1.71E-02
3	1.85E-01	0.234045447	3	3.28E-01
3	2.47E-01	1	3	1.22E-02
6	5.25E-01	0.112252158	6	4.98E-01
3	1.41E+00	0.299605193	3	2.66E-01
9	4.25E+00	-0.619922293	9	5.74E+01
24	2.07E+01	-0.446630106	24	2.04E+03
1	5.84E-01	-0.062718248	1	6.87E-01
15	5.65E+00	0.224756466	15	1.82E-01
9	2.62E+00	-0.374276705	9	1.18E+01
8	9.19E+00	-0.235893674	8	3.96E+00
17	1.12E+06	-0.105751762	17	5.79E+00
6	1.28E+01	-0.653182243	6	1.99E+01
2	1.14E+00	-0.197386394	2	1.09E+00
9	1.08E+01	-0.510418231	9	2.83E+01
15	7.16E+04	-0.363948182	15	5.49E+01
9	1.60E-01	0.146430114	9	4.11E-01
4	1.25E-02	-0.426741466	4	3.66E+00
27	3.00E-02	0.112882719	27	6.01E-01
7	2.10E-01	0.926258252	7	6.41E-03
13	3.40E-02	-0.228183001	13	9.98E+00
26	1.69E-02	-0.097533914	26	1.61E+01
1	5.77E-02	-0.58482535	1	2.06E+00
9	3.41E-02	-0.188022332	9	3.55E+00
2	3.77E-01	0.041463331	2	5.79E-01
7	1.03E-04	0.626571401	7	3.19E-02
13	1.44E-06	0.781106286	13	1.68E-03
5	2.87E-03	0.208883967	5	3.26E-01
4	1.29E-01	-0.011467059	4	7.76E-01
13	6.12E-01	-0.310009767	13	2.02E+01
19	2.35E-02	0.127921775	19	4.67E-01
7	1.01E-01	-0.413382815	7	8.41E+00

6	8.45E-01	-0.644972773	6	1.91E+01
8	9.79E-02	-0.125254807	8	2.06E+00
35	2.01E-08	0.524258223	35	1.38E-04
5	1.31E-02	0.639703894	5	5.17E-02
4	2.79E-02	0.762277802	4	4.32E-02
7	1.08E-02	0.314243452	7	1.70E-01
21	8.30E+00	0.244201587	21	1.04E-01
4	6.15E-02	0.736162338	4	4.76E-02
8	1.12E-06	2	8	3.87E-05
6	3.70E+00	0.132620151	6	4.52E-01
10	2.01E-02	0.252647744	10	1.94E-01
4	7.19E-02	-0.667656599	4	8.99E+00
15	1.47E-01	-0.248200819	15	1.79E+01
4	9.93E-01	0.097755723	4	5.16E-01
9	2.45E+00	0.150266498	9	4.01E-01
5	6.58E-01	0	5	7.97E-01
4	7.71E+00	0.46596792	4	1.30E-01
3	6.13E-01	-0.379959749	3	2.33E+00
15	6.26E-06	0.015752993	15	1.38E+00
8	8.51E-03	0.123267791	8	4.76E-01
10	6.90E-01	-0.098918194	10	2.26E+00
13	1.66E-02	-0.215135367	13	8.92E+00
12	6.00E-03	-1	12	1.44E+04
3	2.20E-01	-0.029334715	3	7.61E-01
5	2.03E-01	0.280517721	5	2.40E-01
8	5.87E-01	0.692486954	8	1.65E-02
4	7.86E-02	0.242424739	4	3.01E-01
12	4.77E-02	0.627796112	12	8.22E-03
11	8.25E-01	0.346202845	11	8.97E-02
1	5.19E-01	-0.049739088	1	6.68E-01
7	1.04E-01	-0.3779505	7	6.96E+00
4	5.12E-03	0.56448195	4	9.03E-02
26	6.49E-01	1	26	1.42E-09
10	3.60E+01	-0.389918937	10	1.73E+01
32	2.22E+04	-0.263033458	32	7.70E+02
11	8.34E+01	-0.16629998	11	4.25E+00
3	6.59E-01	-0.270018443	3	1.64E+00
6	2.82E+00	-0.571985768	6	1.35E+01
7	1.25E+02	0.180009128	7	3.50E-01
4	8.22E-01	-0.016500287	4	7.90E-01
21	5.64E+06	3	21	7.36E-16
20	3.92E+02	2	20	2.68E-10
3	2.52E+00	1	3	1.60E-02
2	3.19E-01	-0.170792526	2	1.02E+00
3	3.47E-03	0.657171043	3	8.51E-02
7	1.43E-01	-0.123933618	7	1.78E+00
48	1.15E-15	0.723709305	48	3.49E-08

8	6.09E+00	-0.310501893	8	6.15E+00
14	8.28E-02	-0.152644271	14	6.07E+00
10	7.89E+00	-0.428895578	10	2.27E+01
17	1.03E+00	-0.037929062	17	2.79E+00
7	2.10E+00	-0.334730068	7	5.52E+00
7	7.58E+01	-0.806875471	7	6.93E+01
4	4.65E-01	-0.281236738	4	2.12E+00
10	2.26E+01	-0.052060642	10	1.63E+00
4	4.25E-01	-0.006381212	4	7.61E-01
3	3.57E-02	0.746738947	3	6.39E-02
3	7.64E-01	-0.471411609	3	3.12E+00
9	5.49E+01	-0.609487975	9	5.36E+01
4	1.45E-03	-1	4	1.46E+02
12	1.19E+01	-1	12	3.43E+04
24	2.72E-05	-0.462568777	24	2.57E+03
6	5.09E+00	-0.228461757	6	2.57E+00
5	1.07E+00	0.092740299	5	5.36E-01
2	5.25E-01	0.049125069	2	5.67E-01
2	5.00E-01	-0.418678867	2	1.96E+00
4	9.14E-01	-0.009937846	4	7.71E-01
4	1.17E+00	-0.365809566	4	2.91E+00
8	1.52E+00	-0.485812387	8	1.73E+01
4	1.24E+00	-0.380310256	4	3.07E+00
10	3.01E+00	-0.030026649	10	1.40E+00
9	1.19E+00	-0.974415901	9	5.63E+02
13	5.99E-01	2	13	2.16E-06
6	3.19E-01	1	6	1.57E-03
5	5.56E-03	2	5	9.66E-04
4	4.60E-03	0.863313598	4	2.96E-02
4	1.64E-01	2	4	1.83E-03
4	5.05E-02	0.454317495	4	1.36E-01
26	1.05E+09	-0.377874969	26	1.30E+03
3	5.60E-01	0.570137206	3	1.12E-01
7	1.38E+00	2	7	1.04E-04
8	2.21E+00	0.827756674	8	7.44E-03
3	1.89E-01	-0.011712444	3	7.19E-01
7	4.86E-02	0.408516058	7	1.03E-01
3	3.02E+00	0.150406408	3	4.29E-01
13	1.53E+01	0.484586011	13	2.15E-02
4	5.35E-01	0.257169926	4	2.85E-01
68	4.21E-03	0.173300079	68	8.55E-02
2	6.02E-01	-0.031067834	2	7.01E-01
10	3.00E+06	-0.771124542	10	2.48E+02
12	6.88E+02	0.164421244	12	3.46E-01
9	1.01E+04	-0.071472424	9	1.67E+00
3	1.16E+00	-1	3	3.40E+01
33	1.64E-03	0.528304605	33	1.96E-04

8	1.41E-01	-0.298119886	8	5.72E+00
9	1.89E+00	0.276928194	9	1.77E-01
12	4.06E+01	-0.225566532	12	8.05E+00
28	3.04E+01	0.514718459	28	7.25E-04
3	4.76E+00	0.981650661	3	3.02E-02
14	1.65E+02	-0.841644169	14	3.33E+03
4	4.28E+01	-0.822037509	4	1.60E+01
20	4.61E-01	-0.140216457	20	1.30E+01
11	2.08E-03	3	11	3.54E-09
5	6.32E-02	0.029996968	5	7.01E-01
7	1.13E-01	-0.708994786	7	4.10E+01
2	8.74E-02	-0.272555714	2	1.33E+00
14	1.23E-01	-0.070835926	14	2.87E+00
3	4.20E-01	1.83E-05	3	6.93E-01
26	1.83E-05	2	26	2.47E-11
11	3.17E-01	0.034098123	11	9.40E-01
3	2.50E-01	0.150121464	3	4.29E-01
9	8.48E-04	-0.067048799	9	1.63E+00
14	6.54E-01	-0.486277817	14	1.29E+02
7	5.73E+00	-0.408287998	7	8.19E+00
3	6.21E-01	-0.099618833	3	9.52E-01
2	5.58E-01	-0.016803056	2	6.75E-01
4	1.31E+01	0.30845176	4	2.35E-01
2	6.79E-01	0	2	6.46E-01
13	1.98E+02	-0.180989007	13	6.65E+00
2	5.77E-01	0	2	6.46E-01
6	7.04E-01	0.451147835	6	9.73E-02
2	2.83E-01	-0.111147178	2	8.67E-01
8	4.18E-03	-0.357808801	8	8.13E+00
4	1.84E+00	0.381168338	4	1.79E-01
2	5.81E-01	0.028106205	2	5.99E-01
3	5.71E-01	-0.033530283	3	7.71E-01
5	1.01E-02	2	5	2.37E-04
4	2.79E-01	0.1184461	4	4.78E-01
4	1.01E+00	-0.088532027	4	1.03E+00
19	2.57E-02	1	19	5.26E-07
73	5.87E+15	-0.699946549	73	3.05E+14
22	2.41E-01	0.383212733	22	1.50E-02
8	6.59E-01	-0.215354754	8	3.51E+00
31	4.85E+00	-0.15246319	31	8.16E+01
5	3.93E+00	-0.207980341	5	1.94E+00
16	1.90E+03	-0.040515427	16	2.62E+00
5	2.02E+00	1	5	3.22E-03
6	5.77E+00	-0.144126299	6	1.71E+00
9	7.32E-02	-0.209682955	9	4.08E+00
5	6.86E-01	-0.024072599	5	8.84E-01
20	3.79E+01	-0.378835521	20	2.52E+02

3	1.58E+03	-0.879914595	3	1.15E+01
1	3.38E+00	-0.871036516	1	3.77E+00
2	6.65E+00	-0.064033144	2	7.65E-01
2	2.54E+02	-0.20329287	2	1.11E+00
31	2.70E+01	-0.243945468	31	4.38E+02
15	1.77E+03	-0.312185991	15	3.32E+01
3	9.74E-01	0.70610964	3	7.28E-02
11	1.48E-01	0.206781737	11	2.56E-01
6	1.22E+00	0.538916586	6	6.38E-02
4	2.26E+01	2	4	5.15E-04
1	5.53E-01	0.039546465	1	5.54E-01
2	6.16E-01	0.874427672	2	6.37E-02
11	6.61E-02	-0.112829272	11	2.84E+00
43	3.77E-05	0.010659776	43	8.83E+00
2	4.19E-01	-0.034842104	2	7.08E-01
4	2.03E+00	-0.65699158	4	8.64E+00
3	6.49E-01	-0.651166514	3	5.53E+00
5	1.53E+01	-0.721117456	5	1.74E+01
5	2.22E+01	-1	5	9.76E+01
2	1.13E+01	-1	2	1.34E+01
9	8.31E-01	0.054288148	9	7.44E-01
48	2.60E-03	-0.033432138	48	4.12E+01
3	3.17E-01	0.094169958	3	5.13E-01
4	1.74E+00	0.101529591	4	5.09E-01
10	1.19E+02	-0.816538019	10	3.40E+02
7	5.52E+00	-0.547758433	7	1.73E+01
11	1.75E-04	0.752514503	11	4.21E-03
1	3.10E-02	1	1	4.58E-02
6	8.54E-02	0.193937523	6	3.36E-01
20	1.65E+03	-0.233916875	20	4.17E+01
4	1.49E+00	-0.801915086	4	1.48E+01
15	1.43E+07	-0.570197685	15	4.06E+02
5	3.70E+02	-0.07586558	5	1.10E+00
10	6.05E+07	-1	10	2.32E+03
9	6.30E+05	-0.339764962	9	9.43E+00
10	5.27E+04	-1	10	7.56E+03
27	9.83E+04	0.44848849	27	2.61E-03
1	5.58E-01	0.015627403	1	5.82E-01
4	1.58E+01	-0.119524031	4	1.16E+00
4	1.45E+01	0.492150994	4	1.18E-01
5	1.55E+00	0.205878983	5	3.31E-01
9	1.43E+00	-0.511815614	9	2.86E+01
12	2.42E+00	-0.462075211	12	5.43E+01
10	3.21E+00	-0.253735241	10	6.67E+00
3	5.90E-01	-0.013606474	3	7.24E-01
15	8.25E-04	-0.278736235	15	2.40E+01
3	7.49E-01	-0.698968006	3	6.45E+00

11	1.78E-01	0.699427565	11	6.28E-03
8	1.75E-03	0.205805968	8	2.92E-01
12	1.19E+00	-0.09364792	12	2.78E+00
7	3.10E-02	-0.030372027	7	1.08E+00
29	7.14E-06	0.22718376	29	8.48E-02
8	1.18E-03	0.681699485	8	1.76E-02
23	2.55E-03	0.092105006	23	7.76E-01
17	5.25E+09	-0.418635673	17	1.69E+02
4	1.54E+00	-0.047974084	4	8.89E-01
4	1.91E+01	-1	4	4.73E+01
15	1.32E+03	-1	15	5.80E+04
5	5.31E+00	-0.619938414	5	1.13E+01
4	9.80E-01	-0.165937146	4	1.38E+00
5	5.80E+00	-0.867047213	5	3.25E+01
10	6.93E-01	-1	10	2.21E+03
4	1.41E-01	-1	4	3.56E+01
9	3.40E+01	-1	9	2.23E+03
8	2.18E+01	0.247647054	8	2.28E-01
3	1.81E+00	-0.517058744	3	3.61E+00
3	5.38E-01	-0.002945739	3	6.99E-01
11	2.13E+01	0.143076097	11	4.14E-01
10	3.52E-02	0.544031831	10	2.53E-02
3	1.12E-01	0.16508634	3	4.09E-01
2	7.26E-01	-0.568628964	2	2.91E+00
2	1.56E+00	-0.839579986	2	5.97E+00
8	3.40E-03	0.294986265	8	1.73E-01
6	1.92E-01	0.100177726	6	5.28E-01
9	1.06E-03	-0.005729464	9	1.10E+00
16	2.14E-01	-0.365636385	16	7.30E+01
6	3.68E+01	-0.486934918	6	8.93E+00
8	2.83E+01	-0.959788827	8	2.84E+02
4	7.73E+00	-1	4	7.26E+01
2	1.36E+00	-0.701274384	2	4.14E+00
13	2.05E-02	0.223515058	13	2.04E-01
4	4.36E+00	-0.406294402	4	3.39E+00
26	1.07E+05	-0.971030386	26	1.40E+07
13	5.92E-02	-0.339373966	13	2.60E+01
6	1.12E-01	-0.607066199	6	1.59E+01
9	3.94E-03	0.234948565	9	2.32E-01
2	5.07E-02	1	2	3.25E-02
68	7.49E-07	-0.102802281	68	3.47E+03
7	9.12E-01	-0.153516717	7	2.09E+00
10	2.44E+03	-0.993468604	10	1.17E+03
7	6.39E+00	-0.515742159	7	1.46E+01
3	6.86E-01	-0.095299424	3	9.39E-01
8	3.22E+00	-0.202751832	8	3.26E+00
5	2.59E+01	-1	5	1.78E+02

4	5.58E+01	-1	4	4.33E+01
8	1.10E+01	-0.671119611	8	5.17E+01
8	9.93E-03	0.103613488	8	5.34E-01
25	3.33E+07	-0.392283031	25	1.22E+03
20	1.57E-04	1	20	2.61E-08
11	7.15E-03	0.61511694	11	1.18E-02
11	4.52E-01	0.724726256	11	5.19E-03
5	3.38E+00	-0.550578472	5	8.39E+00
9	4.05E-02	1	9	6.21E-04
3	2.66E-01	0.782840658	3	5.70E-02
24	1.11E-01	-0.130574882	24	2.03E+01
3	8.72E-01	0.295265559	3	2.70E-01
10	6.28E-01	0.322796689	10	1.19E-01
2	2.23E+00	1	2	4.15E-02
5	6.97E+01	0.736045595	5	3.43E-02
8	3.50E+02	-0.272003685	8	4.90E+00
10	1.50E+04	-0.70516307	10	1.56E+02
5	2.20E+02	-1	5	1.12E+02
2	1.65E+01	-0.853202532	2	6.19E+00
5	2.68E+00	-0.49940771	5	6.74E+00
5	4.22E+01	-0.875937855	5	3.37E+01
3	8.22E+00	-0.337580943	3	2.03E+00
2	1.68E+00	-2	2	4.40E+01
6	2.52E+04	-1	6	1.17E+02
8	1.32E-03	-0.985364773	8	3.30E+02
4	3.74E-03	-1	4	6.85E+01
4	4.85E-01	-0.155138053	4	1.33E+00
8	2.42E-01	-0.353800756	8	7.94E+00
18	3.96E+00	0.604955052	18	2.11E-03
7	5.89E-02	-0.108337203	7	1.64E+00
7	2.69E-01	-0.692302339	7	3.75E+01
11	1.38E+06	-1	11	8.38E+03
6	5.83E+02	-0.36870755	6	5.05E+00
7	3.76E+00	-0.462551123	7	1.09E+01
7	4.87E+01	-0.307165996	7	4.76E+00
3	6.93E-01	-0.258556598	3	1.58E+00
4	1.15E+00	-0.217267434	4	1.67E+00
12	8.36E+00	-0.516743239	12	8.44E+01
8	3.35E+00	0.004275699	8	9.60E-01
7	4.28E+01	-0.365017118	7	6.49E+00
5	3.09E+01	-1	5	1.70E+02
5	6.20E-01	-0.219332927	5	2.04E+00
29	1.10E-03	0.019226836	29	3.09E+00
7	8.88E-01	0.07906014	7	6.01E-01
5	5.08E+00	-0.507216828	5	6.97E+00
7	1.28E+02	-0.57813425	7	2.03E+01
11	3.68E+04	-0.279325735	11	9.95E+00

9	4.31E-01	-0.343772638	9	9.68E+00
16	1.36E-02	0.206693966	16	2.08E-01
12	4.35E-03	1	12	3.24E-05
5	5.40E-01	-0.181387244	5	1.73E+00
13	5.17E+01	-0.792891588	13	1.29E+03
2	4.30E-01	-0.201091119	2	1.10E+00
2	6.49E-01	-0.026273639	2	6.92E-01
2	1.62E-01	-0.312578037	2	1.48E+00
3	1.88E-01	-2	3	1.43E+02
3	8.37E-01	-0.422582439	3	2.67E+00
3	3.90E-01	-0.466254051	3	3.07E+00
6	1.01E+00	0.859649205	6	1.36E-02
5	3.15E-01	1	5	4.61E-03
10	2.09E-02	0.798430568	10	4.28E-03
7	2.64E-03	0.097737835	7	5.43E-01
23	5.53E+00	2	23	8.44E-11
5	1.98E+00	0.104808737	5	5.09E-01
4	1.61E+00	2	4	7.70E-04
16	5.83E-01	0.941515101	16	1.12E-04
32	2.54E-04	0.378001851	32	4.18E-03
15	1.94E+05	1	15	5.10E-06
11	1.34E+00	0.340832301	11	9.34E-02
13	2.14E+00	0.581665934	13	9.33E-03
27	4.17E-01	-0.435764756	27	4.36E+03
20	2.88E-02	-0.291738819	20	8.54E+01
5	1.09E+00	-0.343698907	5	3.47E+00
32	1.79E+03	-0.128715724	32	6.07E+01
16	1.09E-01	0.142028467	16	4.03E-01
5	1.04E+00	0.245810949	5	2.79E-01
5	1.52E-01	1	5	2.12E-03
10	1.14E+01	0.366993591	10	8.72E-02
5	2.83E-01	-0.656768778	5	1.32E+01
5	9.00E-01	-0.596996271	5	1.02E+01
13	5.31E+00	-0.211756018	13	8.67E+00
7	1.03E+00	-0.338114628	7	5.62E+00
8	6.25E+00	0.350429193	8	1.24E-01
11	1.71E+00	2	11	2.59E-07
6	1.57E+00	0.085283661	6	5.67E-01
15	2.20E-01	3	15	5.41E-13
14	9.85E+00	0.043092562	14	1.01E+00
20	2.27E-07	0.006605803	20	2.11E+00
18	4.50E+02	0.233457601	18	1.41E-01
4	3.35E+00	-0.881811195	4	2.00E+01
7	1.50E+00	0.931883062	7	6.22E-03
4	1.57E-01	-0.144259753	4	1.27E+00
2	6.91E+00	-1	2	1.08E+01
7	2.73E+01	0.105847119	7	5.20E-01

16	3.84E+01	1	16	5.31E-05
10	3.55E+00	-0.036987963	10	1.47E+00
20	1.61E-04	0.69595825	20	4.07E-04
3	2.11E-01	-0.64352383	3	5.40E+00
3	2.48E-01	-0.228496227	3	1.44E+00
26	6.51E+03	-0.567630961	26	2.53E+04
3	4.54E-03	0.950905307	3	3.33E-02
13	1.56E-05	0.418631225	13	3.80E-02
4	3.56E+01	0.027753265	4	6.70E-01
5	6.09E-01	-0.221224909	5	2.05E+00
69	1.50E-05	0.321220828	69	2.62E-04
7	2.89E+01	0.059935395	7	6.66E-01
3	1.24E+00	0.046505555	3	5.97E-01
9	1.52E+00	-0.388021368	9	1.29E+01
7	6.52E-02	0.551104026	7	4.78E-02
6	3.55E-01	0.146793468	6	4.22E-01
13	1.61E-04	0.642108885	13	5.55E-03
7	7.70E-03	-0.081338692	7	1.42E+00
26	1.56E-05	1	26	3.41E-07
9	9.08E-03	-0.014788913	9	1.16E+00
41	8.16E-04	0.489135296	41	8.83E-05
5	1.15E-01	0.701515679	5	3.97E-02
21	2.10E+04	2	21	1.52E-11
11	4.65E+02	3	11	3.61E-09
2	4.87E-01	0.498569638	2	1.72E-01
21	7.65E-03	-0.001718293	21	2.51E+00
2	3.96E-01	-0.250424828	2	1.25E+00
13	1.30E-03	0.144840297	13	4.02E-01
13	1.63E-03	0.609946566	13	7.32E-03
9	3.74E-03	0.432754121	9	6.49E-02
8	2.24E+00	0.027256746	8	8.38E-01
8	1.04E+03	0.222086919	8	2.65E-01
14	7.18E+01	0.318420307	14	8.13E-02
4	6.16E-01	0.039048503	4	6.42E-01
7	8.53E-01	-0.13539441	7	1.90E+00
7	6.82E-01	-0.128468983	7	1.83E+00
8	4.64E+00	0.124031761	8	4.73E-01
11	6.71E+03	-0.658989791	11	1.74E+02
14	4.93E+05	1	14	8.71E-06
10	6.15E+02	2	10	9.09E-08
25	8.03E+04	-0.341063222	25	5.64E+02
12	1.12E-05	0.456548122	12	3.27E-02
2	5.38E-01	-0.005895421	2	6.56E-01
36	2.97E-03	-0.026384563	36	1.23E+01
21	5.29E-04	0.469532791	21	5.61E-03
5	5.78E-02	-1	5	1.04E+02
21	5.77E-04	-0.286677883	21	1.01E+02

3	2.39E-01	0.010260182	3	6.70E-01
5	2.61E-01	0.363975667	5	1.68E-01
7	1.20E-01	-0.007785336	7	9.57E-01
9	2.36E+00	-0.075488173	9	1.72E+00
14	2.97E+00	0.507394163	14	1.44E-02
30	6.95E-15	-0.043906014	30	1.01E+01
10	3.23E-01	-0.57640444	10	6.35E+01
12	1.38E+00	-0.073512226	12	2.36E+00
7	2.26E-02	0.446753393	7	8.37E-02
11	2.43E-02	0.493642721	11	2.96E-02
10	4.29E-01	0.212411017	10	2.57E-01
7	7.27E-01	0.024354379	7	8.05E-01
4	6.36E-01	0.118598861	4	4.77E-01
8	4.25E+00	0.165011977	8	3.72E-01
10	4.91E+00	-0.434721725	10	2.36E+01
2	1.10E+00	-0.187701383	2	1.06E+00
12	5.08E+00	-0.192034671	12	6.14E+00
6	2.51E+01	-0.14971274	6	1.76E+00
7	8.19E-01	0.581693173	7	4.06E-02
10	6.69E+05	1	10	2.22E-04
6	1.30E+05	-0.711118032	6	2.63E+01
18	8.09E+01	-0.388288194	18	1.61E+02
5	7.61E-01	2	5	6.41E-05
30	1.14E+08	2	30	3.96E-15
9	4.99E+03	0.440838654	9	6.17E-02
13	1.36E+06	-1	13	1.32E+04
10	2.41E+00	-0.1873598	10	4.19E+00
13	9.11E-02	-0.748972394	13	8.86E+02
13	1.12E-03	0.606540447	13	7.53E-03
11	1.90E+00	0.421699374	11	5.08E-02
5	3.72E+00	-0.439925848	5	5.23E+00
60	5.16E+01	-0.727054869	60	2.22E+12
6	8.40E-02	-0.504111599	6	9.70E+00
10	3.87E+02	0.570286902	10	2.11E-02
7	5.44E+01	-0.716429544	7	4.27E+01
3	2.45E-01	-0.354904051	3	2.15E+00
3	2.61E-01	0.040123365	3	6.10E-01
3	4.14E+00	-0.683599695	3	6.14E+00
7	1.11E+01	-0.374696868	7	6.84E+00
19	1.56E+01	2	19	3.24E-09
11	3.49E+03	0.547455879	11	1.97E-02
5	2.02E-01	-0.230198204	5	2.13E+00
24	2.02E+03	-0.444101673	24	1.96E+03
5	3.10E+00	-0.399271792	5	4.40E+00
2	7.05E-01	-0.083387944	2	8.05E-01
22	5.71E+02	-0.83693132	22	2.11E+05
1	5.36E-01	-0.015937023	1	6.22E-01

9	5.41E-02	-0.205137596	9	3.96E+00
7	4.22E+00	0.48200255	7	6.93E-02
4	3.51E+01	-0.652968223	4	8.51E+00
4	2.00E+01	-1	4	1.66E+02
10	3.68E-01	0.016115904	10	1.01E+00
7	5.18E-02	0.157319158	7	3.95E-01
9	1.16E+02	-0.040968405	9	1.38E+00
14	1.01E+04	-0.313754434	14	2.65E+01
5	6.79E-01	-0.264577859	5	2.47E+00
12	1.29E+01	-0.208988437	12	7.04E+00
12	2.92E+02	0.169889861	12	3.31E-01
2	6.49E-01	0.062744617	2	5.47E-01
2	7.23E-01	0.175599759	2	4.06E-01
6	8.76E-03	1	6	2.84E-03
17	2.84E-04	0.848255532	17	1.98E-04
9	1.53E-04	1	9	7.21E-04
10	8.86E+02	-0.635043423	10	9.57E+01
7	1.39E+02	-0.939265338	7	1.41E+02
15	1.57E+03	-0.662198173	15	9.90E+02
7	1.47E+00	0.636247262	7	3.03E-02
33	2.87E+01	-0.128619443	33	6.97E+01
7	7.41E-01	-0.414105777	7	8.45E+00
11	3.52E+03	-0.502343331	11	5.34E+01
21	1.31E-02	0.496288564	21	3.97E-03
9	1.18E-02	0.037080449	9	8.32E-01
9	2.75E-03	-0.150931264	9	2.79E+00
10	3.56E-02	-0.337485079	10	1.20E+01
15	6.13E-03	0.76701879	15	9.48E-04
12	2.35E-02	0.168054085	12	3.36E-01
26	1.76E-03	0.359530846	26	1.25E-02
11	6.58E-03	0.593607013	11	1.39E-02
2	6.93E-01	-0.017035334	2	6.76E-01
1	6.36E-01	0	1	6.02E-01
4	9.93E-01	-0.140807666	4	1.26E+00
2	6.84E-01	0.737233461	2	9.16E-02
5	9.70E+00	-0.009951662	5	8.32E-01
6	1.62E-01	-0.828590088	6	4.63E+01
4	3.62E+01	-0.709620046	4	1.05E+01
1	5.58E-01	-0.069521572	1	6.97E-01
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0	2	6.46E-01
3	8.98E-01	-0.386937169	3	2.38E+00
5	4.83E-01	-0.048314009	5	9.80E-01
3	1.08E+00	-0.007843973	3	7.10E-01
1	5.50E-01	0	1	6.02E-01
2	5.64E-01	-0.026975311	2	6.94E-01
6	1.06E-01	-1	6	2.09E+02

5	2.35E+01	-0.267350147	5	2.50E+00
12	1.46E+00	0.534039857	12	1.75E-02
6	6.52E+00	0.152428954	6	4.10E-01
3	8.92E-01	-0.031416394	3	7.66E-01
29	1.79E-06	-0.253030463	29	3.42E+02
23	7.73E-05	0.33939939	23	2.41E-02
5	2.47E-01	-0.322630043	5	3.17E+00
9	6.53E-01	-0.439846623	9	1.80E+01
13	2.75E-01	-0.62170184	13	2.96E+02
8	3.93E-04	0.523931231	8	4.47E-02
6	6.61E+01	-0.54280295	6	1.17E+01
16	6.59E-03	-0.383501452	16	8.76E+01
12	4.06E-03	-0.875841656	12	1.53E+03
4	1.35E-01	-0.230683372	4	1.76E+00
10	4.69E-04	-0.311127191	10	9.96E+00
14	9.08E-01	-0.147514033	14	5.79E+00
6	4.09E-01	-0.278047718	6	3.27E+00
6	5.64E-01	0.240158408	6	2.69E-01
6	9.10E-01	-0.118348261	6	1.51E+00
6	3.35E+02	-1	6	1.32E+02
14	4.72E+01	-0.736408473	14	1.27E+03
9	1.38E+02	0.02305549	9	9.10E-01
2	3.05E+00	-1	2	1.38E+01
1	5.36E-01	0	1	6.02E-01
13	1.04E+00	0.453470666	13	2.82E-02
13	1.42E-01	0.751157687	13	2.17E-03
18	3.29E-01	1	18	8.32E-07
3	3.95E-01	2	3	8.93E-04
17	1.76E+01	0.82874671	17	2.44E-04
4	1.38E+00	-0.711536279	4	1.06E+01
5	3.54E-01	1	5	3.93E-03
6	4.21E-02	1	6	3.91E-03
9	1.03E+01	0.751856932	9	8.31E-03
33	1.12E-03	0.613792352	33	3.71E-05
5	6.54E+00	-0.637328883	5	1.22E+01
9	1.39E-01	-0.057837734	9	1.53E+00
3	1.25E+00	-0.256251267	3	1.57E+00
21	4.10E+01	-0.606909241	21	6.36E+03
3	5.54E-01	-2	3	2.04E+02
1	3.15E-01	-0.030206086	1	6.41E-01
4	2.27E-01	0.088486439	4	5.34E-01
14	2.05E-02	0.968685571	14	2.11E-04
9	1.91E+02	0.939466287	9	2.48E-03
11	2.41E-01	-0.590252159	11	1.03E+02
30	2.81E+01	-0.648336564	30	4.84E+05
15	5.73E+02	-0.494583646	15	1.95E+02
4	2.18E-03	-0.8680566	4	1.90E+01

7	8.80E-01	-0.686465772	7	3.64E+01
5	1.26E-01	-0.699256096	5	1.59E+01
3	2.03E+00	-0.707714381	3	6.63E+00
4	9.93E-01	-1	4	1.77E+02
8	1.16E-01	-0.491383255	8	1.79E+01
5	7.98E-02	0.831638234	5	2.28E-02
4	1.18E-02	2	4	1.02E-03
9	2.07E-01	-0.224774186	9	4.50E+00
9	6.57E+00	2	9	3.64E-05
18	2.02E-02	2	18	8.02E-08
12	1.36E-02	1	12	2.64E-04
27	5.98E-09	0.403515536	27	5.41E-03
7	1.94E-02	-0.383836891	7	7.18E+00
21	6.85E-01	-0.089095601	21	7.78E+00
6	2.23E+00	-0.693840552	6	2.42E+01
3	1.40E-02	0.654377564	3	8.58E-02
8	3.17E-06	2	8	1.66E-05
25	4.95E-04	-0.028491613	25	5.00E+00
4	1.11E-01	-0.314915841	4	2.41E+00
8	2.35E+00	0.074762321	8	6.33E-01
13	6.32E+02	-0.323959155	13	2.28E+01
3	1.87E+01	-0.516271993	3	3.60E+00
3	2.73E+00	-0.022154575	3	7.44E-01
12	2.90E+01	-0.971673801	12	3.32E+03
14	5.01E+00	0.094986484	14	6.29E-01
4	1.19E-01	-0.029929915	4	8.31E-01
4	6.72E-02	-0.586875615	4	6.65E+00
13	1.35E-03	0.62421942	13	6.47E-03
5	1.88E-01	1	5	1.35E-03
7	1.64E+00	0.306059392	7	1.78E-01
6	8.81E-02	0.173472327	6	3.71E-01
4	4.17E-01	-0.101711154	4	1.09E+00
1	2.85E-01	0.081068345	1	5.07E-01
16	7.71E-04	0.060605339	16	9.29E-01
8	4.98E-02	0.981046249	8	3.01E-03
11	7.50E-04	3	11	1.41E-09
10	9.14E-01	0.102472774	10	5.54E-01
3	6.23E-01	-0.01314978	3	7.22E-01
4	3.74E-01	-0.064127814	4	9.44E-01
9	1.22E+00	0.346940486	9	1.13E-01
5	2.73E-03	-0.664862367	5	1.37E+01
4	2.51E+00	0.988570752	4	1.85E-02
31	3.49E+03	1	31	8.77E-12
7	2.24E+01	2	7	4.77E-05
8	7.35E-01	0.763979938	8	1.08E-02
8	4.03E+03	-1	8	7.02E+02
6	1.93E+00	-0.319678492	6	3.99E+00

6	9.43E-01	-0.103760558	6	1.41E+00
15	2.35E+03	-0.637918245	15	7.82E+02
33	6.81E+07	-0.333095364	33	3.72E+03
35	8.28E+07	1	35	1.75E-12
15	5.66E+03	0.056294807	15	9.33E-01
8	1.02E-02	0.290637779	8	1.77E-01
16	9.50E-08	0.892641129	16	1.85E-04
3	2.99E-01	0.021257499	3	6.47E-01
8	2.13E-01	0.101999045	8	5.39E-01
8	3.18E-01	0.740475206	8	1.25E-02
5	9.41E-01	0.412851252	5	1.36E-01
3	2.62E-01	0.095919857	3	5.10E-01
1	5.05E-01	-0.126158821	1	7.85E-01
15	2.90E-01	1	15	4.90E-06
2	1.96E-01	-0.584544865	2	3.04E+00
13	1.12E+00	-0.875822562	13	2.64E+03
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0	2	6.46E-01
2	8.57E-01	0.569979321	2	1.43E-01
3	7.40E-01	2	3	3.02E-03
2	8.89E-01	1	2	2.09E-02
10	2.64E+00	0.629111991	10	1.40E-02
15	1.34E-04	0.178377596	15	2.85E-01
24	6.38E+06	-0.812813907	24	4.24E+05
3	1.41E+00	1	3	7.87E-03
2	5.14E-01	0.211058811	2	3.69E-01
2	5.78E-01	0.085219254	2	5.15E-01
3	8.83E-01	0.885942468	3	4.10E-02
61	5.73E-08	0.2770299	61	2.78E-03
9	1.80E-03	0.792681684	9	6.39E-03
5	8.46E-01	0.351221714	5	1.78E-01
23	3.98E-02	0.050840539	23	1.38E+00
22	3.65E+01	-0.842359615	22	2.27E+05
3	5.74E+00	-0.845103653	3	1.03E+01
12	5.36E-02	-0.201321712	12	6.62E+00
5	9.44E-02	-0.582767993	5	9.63E+00
2	5.74E-01	-0.52072505	2	2.57E+00
1	9.16E-01	-0.343790672	1	1.24E+00
6	7.41E-01	-1	6	1.15E+02
12	8.20E+01	-1	12	9.94E+03
3	9.43E-01	0.158723376	3	4.17E-01
2	1.06E+00	0.238727989	2	3.43E-01
24	9.23E+08	-0.941824472	24	2.78E+06
6	1.19E+01	-0.39892609	6	5.85E+00
5	3.06E+00	-0.078847845	5	1.12E+00
20	1.92E+03	-0.305336844	20	1.01E+02
8	1.09E+00	-0.561783867	8	2.71E+01

58	8.77E-09	-0.015523606	58	5.52E+01
13	1.29E-06	0.556735445	13	1.16E-02
7	1.15E-02	0.10465108	7	5.24E-01
9	8.84E-02	-0.422091967	9	1.60E+01
1	1.59E+00	-0.436871787	1	1.51E+00
10	9.19E-04	1	10	4.95E-04
19	5.63E-12	1	19	2.03E-06
7	2.73E-03	0.253359225	7	2.36E-01
8	2.73E-02	0.132601227	8	4.50E-01
42	5.09E-09	0.131405614	42	4.39E-01
3	9.71E-01	-0.196598658	3	1.30E+00
15	2.31E+02	-0.042831125	15	2.44E+00
12	6.67E-03	-0.165761592	12	4.97E+00
11	3.08E-01	-1	11	9.75E+03
7	4.86E+03	-0.971375935	7	1.67E+02
18	1.90E-04	2	18	1.03E-08
11	8.22E-05	0.206784412	11	2.56E-01
31	4.72E-01	-0.067173055	31	1.70E+01
7	3.04E-04	2	7	4.38E-05
14	1.36E-02	-0.110267464	14	4.12E+00
28	1.04E-03	2	28	1.24E-11
38	2.08E-04	0.018878686	38	5.33E+00
21	1.72E+01	0.210277353	21	1.61E-01
20	4.91E-03	1	20	2.39E-07
12	1.10E-02	-0.160585388	12	4.77E+00
1	3.18E-01	-0.065273255	1	6.91E-01
41	1.19E-11	1	41	1.58E-12
3	7.79E-03	2	3	4.96E-04
11	6.98E-01	0.88336754	11	1.57E-03
6	4.49E-01	0.337418041	6	1.68E-01
1	5.36E-01	0.010868643	1	5.88E-01
7	2.76E+00	0.326001965	7	1.60E-01
3	6.90E-02	0.281735529	3	2.82E-01
4	3.76E-02	0.495157446	4	1.17E-01
10	1.84E-01	0.434623938	10	5.44E-02
16	2.53E-05	0.344637353	16	5.07E-02
7	9.01E-02	0.995697097	7	4.42E-03
6	6.69E-01	0.767215891	6	2.12E-02
6	3.09E+00	0.820434724	6	1.64E-02
8	1.17E+03	-0.424957669	8	1.21E+01
10	5.24E+02	0.217720738	10	2.48E-01
9	6.02E+00	-0.158071681	9	2.92E+00
8	4.69E+02	-0.223103469	8	3.67E+00
1	1.00E+00	0.180365692	1	4.12E-01
10	8.04E-01	0.633514642	10	1.36E-02
22	1.05E+00	0.926084874	22	9.86E-06
10	5.05E-01	-0.242497949	10	6.17E+00

11	1.52E-01	0.221433479	11	2.29E-01
14	1.65E+05	-0.305197531	14	2.45E+01
6	7.91E+00	0.001350138	6	8.50E-01
9	3.34E+04	-0.824062137	9	2.14E+02
13	2.68E+05	-1	13	5.74E+04
5	4.76E-02	0.11271342	5	4.92E-01
7	2.52E-02	0.20940006	7	2.99E-01
1	7.26E-01	-0.884335691	1	3.88E+00
8	1.80E+01	0.405668662	8	8.98E-02
11	2.61E+00	-0.100736332	11	2.59E+00
6	9.67E+00	-1	6	1.30E+02
23	2.67E+07	-0.069439493	23	7.49E+00
53	2.80E-01	0.010264046	53	1.70E+01
29	1.30E+06	-0.430225622	29	7.31E+03
4	1.25E+05	-0.569632927	4	6.23E+00
1	5.57E-01	-0.049739088	1	6.68E-01
5	2.57E+00	-0.794612797	5	2.38E+01
3	1.49E+00	-0.470769837	3	3.11E+00
14	3.76E+02	-0.875487496	14	4.54E+03
12	8.52E+03	-2	12	8.27E+05
6	5.17E+01	-0.828576125	6	4.63E+01
2	5.45E-01	-0.569300466	2	2.92E+00
2	1.49E+00	-0.106074963	2	8.55E-01
11	1.15E-04	0.326655825	11	1.04E-01
20	5.28E+03	0.762487126	20	1.78E-04
37	1.08E-04	-0.435624274	37	9.32E+04
22	4.12E-10	-0.033661995	22	4.15E+00
8	9.31E-02	-0.886712221	8	1.85E+02
7	1.10E-01	-0.368537001	7	6.61E+00
2	4.01E-01	-0.099275976	2	8.40E-01
17	7.47E+00	-0.225341441	17	2.10E+01
9	1.26E+01	0.917179897	9	2.86E-03
2	4.78E-01	-0.452876378	2	2.14E+00
3	3.17E-01	-0.124366723	3	1.03E+00
18	5.75E+01	-0.386398545	18	1.58E+02
7	4.78E+04	-1	7	4.53E+02
13	1.66E+02	-0.717307252	13	6.74E+02
4	1.23E+00	0.139989837	4	4.41E-01
6	3.15E+00	-0.098296109	6	1.37E+00
17	1.38E-02	-0.276634349	17	3.66E+01
4	5.75E-02	0.1446382	4	4.33E-01
7	5.84E-02	-1	7	3.40E+02
18	1.26E+00	0.239456502	18	1.32E-01
4	8.60E-01	-0.015916582	4	7.89E-01
34	5.16E-01	0.034207624	34	3.09E+00
9	7.28E-01	-0.164774688	9	3.05E+00
20	2.26E+02	-0.471752504	20	7.97E+02

18	1.39E+03	0.134275957	18	4.35E-01
14	1.67E+04	-0.119947893	14	4.50E+00
1	6.90E-01	0.518963263	1	2.02E-01
10	3.83E+05	2	10	1.47E-06
3	7.68E+00	0.586402264	3	1.07E-01
3	7.41E-01	0.315461218	3	2.53E-01
19	2.76E-03	1	19	9.94E-08
5	1.09E-01	0.583904088	5	6.57E-02
6	1.46E+00	-0.967806818	6	9.06E+01
8	1.07E-06	1	8	7.86E-04
14	4.03E-04	-0.193265555	14	8.80E+00
13	3.04E-02	0.437054387	13	3.24E-02
12	3.90E-01	0.294486357	12	1.21E-01
9	5.89E-01	-0.529574466	9	3.20E+01
23	2.43E+00	-0.692025483	23	4.67E+04
2	9.81E-01	-0.079358666	2	7.97E-01
9	3.20E+00	2	9	2.21E-06
9	8.52E-03	0.243112508	9	2.20E-01
11	3.91E+00	0.005522528	11	1.17E+00
7	2.87E-01	-0.201323092	7	2.70E+00
10	3.50E+02	-2	10	5.15E+04
208	2.15E+14	-1	208	1.11E+66
1	4.25E+00	-3	1	1.64E+02
3	5.13E+01	-0.591240796	3	4.57E+00
6	1.99E-01	-0.930798191	6	7.58E+01
8	5.49E-02	0.376452641	8	1.07E-01
1	2.39E-01	-0.669252966	1	2.47E+00
8	1.89E-02	0.118933216	8	4.88E-01
11	1.13E+00	0.720731836	11	5.35E-03
19	1.40E-04	2	19	2.35E-08
38	1.06E+05	1	38	1.45E-11
10	6.13E+01	-0.089983075	10	2.12E+00
4	1.45E+00	-0.292749063	4	2.22E+00
27	4.39E+00	0.427876018	27	3.65E-03
5	1.79E-01	0.176143657	5	3.75E-01
12	6.07E+03	-0.702350257	12	3.78E+02
4	6.94E-02	-0.279292154	4	2.11E+00
18	7.49E-01	-0.29218554	18	5.44E+01
6	2.15E-01	0.374005943	6	1.41E-01
7	2.41E-03	0.226775077	7	2.72E-01
23	9.19E-03	0.818316625	23	2.91E-05
8	5.41E-02	3	8	1.47E-07
5	1.24E-03	1	5	1.73E-03
6	1.75E-03	2	6	5.67E-04
16	6.08E-04	0.078534507	16	7.73E-01
10	1.61E-04	0.918775476	10	1.85E-03
8	3.13E-02	0.094621031	8	5.63E-01

28	5.41E-01	0.015420632	28	3.10E+00
15	4.41E+00	-0.37554734	15	6.14E+01
5	2.79E+00	-0.268611494	5	2.51E+00
4	1.05E-01	-0.081603683	4	1.01E+00
30	1.82E-03	-0.432712833	30	1.04E+04
6	3.68E-01	0.453862221	6	9.61E-02
8	3.24E-02	1	8	1.36E-03
12	1.78E+01	-0.216101655	12	7.46E+00
16	1.88E-01	-0.171677938	16	1.00E+01
11	1.32E-02	0.12931501	11	4.59E-01
18	1.59E-02	0.317316686	18	5.47E-02
14	4.27E+01	0.024432298	14	1.20E+00
17	1.29E+03	0.388573672	17	2.81E-02
15	1.76E+00	0.117147636	15	5.17E-01
17	1.24E+09	-0.892199938	17	2.79E+04
21	4.01E-05	0.657238428	21	4.94E-04
5	2.03E+00	-0.551393888	5	8.42E+00
26	1.19E-05	0.181615857	26	2.03E-01
27	4.19E+05	0.305076829	27	2.67E-02
11	5.41E+01	0.501522935	11	2.79E-02
3	8.98E-01	-0.41332112	3	2.59E+00
10	1.19E-01	0.158222669	10	3.75E-01
8	9.13E-03	-0.087361058	8	1.65E+00
14	6.42E-01	-0.04437564	14	2.25E+00
3	4.59E-01	0.159598067	3	4.16E-01
5	1.07E+00	-0.180326826	5	1.72E+00
7	5.57E+00	-0.158739853	7	2.15E+00
6	6.91E-01	0	6	8.55E-01
6	4.28E-05	1	6	2.34E-03
5	6.45E-06	1	5	5.95E-03
3	1.05E-01	-0.011741721	3	7.19E-01
15	6.66E-06	0.160285184	15	3.40E-01
3	1.12E-02	1	3	1.16E-02
2	2.58E-03	2	2	8.67E-03
25	2.73E-13	0.341321555	25	1.87E-02
6	2.04E-01	-0.016578739	6	9.26E-01
2	1.74E-01	-0.173998589	2	1.02E+00
14	3.79E-05	1	14	1.49E-05
3	3.30E-01	1	3	2.06E-02
10	1.15E-01	-0.103587065	10	2.34E+00
6	1.20E-01	-0.27848804	6	3.27E+00
8	1.85E-02	1	8	1.70E-03
7	3.65E+00	0.835607364	7	1.04E-02
10	1.69E+00	1	10	3.17E-04
20	1.07E+01	0.433759075	20	1.05E-02
9	8.05E-01	-0.204361085	9	3.94E+00
9	1.45E+00	0.071637354	9	6.66E-01

9	1.82E+01	0.583062179	9	2.47E-02
7	2.46E-01	0.08485947	7	5.82E-01
28	5.42E-05	0.718504922	28	2.39E-05
2	4.59E+00	-0.977591722	2	8.60E+00
18	1.85E+05	-0.899088149	18	5.25E+04
25	6.18E-05	-0.098812084	25	1.45E+01
26	1.54E-06	0.778599467	26	1.77E-05
38	1.24E-03	0.17594101	38	1.64E-01
1	8.01E-01	-0.422796734	1	1.47E+00
10	5.97E-02	0.273891464	10	1.67E-01
9	3.97E-02	0.534051543	9	3.38E-02
4	1.64E+00	-0.529263596	4	5.36E+00
4	6.74E+01	-1	4	6.11E+01
4	5.13E+00	-0.182102119	4	1.47E+00
14	2.54E+02	1	14	2.00E-05
3	3.56E-01	0.614356797	3	9.75E-02
1	1.77E-02	-0.033325457	1	6.46E-01
19	4.18E+00	-0.09741818	19	6.78E+00
21	4.61E-06	0.370401812	21	2.03E-02
11	2.16E-01	0.110892956	11	5.27E-01
10	1.47E-01	-0.18916232	10	4.25E+00
10	2.88E-04	0.634501968	10	1.35E-02
18	3.31E-02	0.63056619	18	1.58E-03
2	4.78E-01	2	2	5.76E-03
6	3.41E-01	0.452474172	6	9.67E-02
7	7.18E+00	-0.222320091	7	3.02E+00
5	9.00E-01	-0.161180869	5	1.59E+00
3	1.79E+00	0.283963493	3	2.80E-01
5	5.96E-03	-0.216308508	5	2.01E+00
5	6.68E-02	-1	5	6.77E+01
29	6.30E-05	0.219151941	29	9.74E-02
12	6.43E-02	-0.626797415	12	2.05E+02
9	8.99E+03	-0.105088201	9	2.08E+00
2	2.00E+00	-0.790910343	2	5.25E+00
17	5.01E+01	-0.776211833	17	7.99E+03
38	1.62E-02	-0.259039357	38	2.53E+03
5	6.57E-01	0	5	7.97E-01
4	6.24E-01	0	4	7.43E-01
24	1.73E+00	0	24	3.03E+00
5	6.57E-01	0	5	7.97E-01
4	6.55E-01	-0.016585011	4	7.91E-01
4	8.80E-01	-0.172890636	4	1.42E+00
14	6.67E-02	0.077166975	14	7.40E-01
9	4.75E+01	-0.910809901	9	3.74E+02
3	5.88E-01	-0.005059236	3	7.04E-01
9	3.04E-01	-0.554242751	9	3.76E+01
2	5.78E-01	0.066061885	2	5.42E-01

3	5.93E-01	0.011560498	3	6.68E-01
4	2.29E+00	0.440672259	4	1.43E-01
11	3.17E-01	0.220329489	11	2.31E-01
4	4.02E+00	0.968684593	4	2.00E-02
10	2.33E+01	-0.580598594	10	6.54E+01
12	6.95E-04	-0.255110423	12	1.02E+01
23	8.59E+00	-0.360879761	23	4.47E+02
12	5.30E-02	-0.292132572	12	1.38E+01
6	5.83E-01	-0.201181808	6	2.25E+00
5	3.08E+01	0.171799038	5	3.82E-01
18	4.48E-02	-0.302754408	18	6.13E+01
3	8.53E-02	-0.432239952	3	2.75E+00
17	2.65E-03	-0.53861583	17	6.16E+02
3	5.19E-01	-0.486410898	3	3.27E+00
20	1.56E+01	-0.358570142	20	1.96E+02
4	4.78E-01	-0.361290163	4	2.86E+00
5	6.05E-02	-0.597825297	5	1.03E+01
15	4.59E-02	0.31210303	15	7.81E-02
25	2.35E-13	1	25	2.81E-08
15	3.56E-03	0.482222754	15	1.50E-02
27	8.22E-05	0.187476287	27	1.79E-01
37	7.22E-09	-0.316015575	37	7.02E+03
2	6.35E-01	-0.089053531	2	8.18E-01
27	4.77E+03	-0.310775032	27	5.75E+02
75	1.16E+01	0.113317722	75	9.12E-01
1	2.39E-01	-0.616153036	1	2.20E+00
3	3.23E-02	-1	3	3.06E+01
2	8.34E-02	-0.246008214	2	1.24E+00
20	9.39E-03	-0.121162327	20	1.03E+01
44	1.54E+03	0.332795305	44	2.62E-03
5	2.24E+00	0.223657929	5	3.06E-01
17	3.47E+02	0.855027049	17	1.84E-04
14	1.29E+02	1	14	1.45E-05
6	3.31E+00	-0.219354572	6	2.46E+00
3	5.76E-01	-0.632877469	3	5.22E+00
11	8.80E+02	0.518183093	11	2.46E-02
8	6.16E+00	-0.441402445	8	1.33E+01
7	6.64E-01	-0.049092362	7	1.19E+00
20	6.63E+00	-0.266802494	20	6.27E+01
13	5.09E+02	-0.811431515	13	1.52E+03
10	3.60E+01	-0.252493311	10	6.61E+00
8	6.45E-02	-0.230239821	8	3.83E+00
2	1.64E+00	-1	2	9.37E+00
32	2.71E-08	0.627985101	32	3.69E-05
7	6.30E-02	0.081524269	7	5.93E-01
1	5.22E-01	0	1	6.02E-01
1	8.72E-01	0	1	6.02E-01

3	6.43E-01	-0.043280326	3	7.95E-01
65	2.20E+01	-0.595505447	65	1.78E+11
7	1.28E+00	-0.021116198	7	1.03E+00
15	2.69E-02	0.84906473	15	4.28E-04
10	1.63E-02	-0.765163129	10	2.38E+02
9	1.26E-01	-0.335654751	9	9.19E+00
12	3.40E-01	-0.436819256	12	4.43E+01
24	9.41E+03	-0.100873291	24	1.32E+01
7	9.44E+00	1	7	1.13E-03
5	1.66E+00	0.468175113	5	1.08E-01
9	2.05E+02	-0.249185621	9	5.26E+00
7	2.68E+00	0.826811951	7	1.09E-02
11	1.52E+00	0.206773343	11	2.56E-01
14	2.35E+04	1	14	9.01E-06
2	5.64E-01	0	2	6.46E-01
3	5.93E-01	-0.030732569	3	7.64E-01
3	5.93E-01	-0.244396636	3	1.51E+00
1	5.70E-01	0.048958004	1	5.43E-01
2	6.87E+00	0.634191163	2	1.20E-01
1	6.21E-01	0.457602211	1	2.30E-01
2	5.67E-01	0.164470482	2	4.18E-01
9	2.12E+01	0.716694078	9	1.04E-02
7	2.38E+00	1	7	1.15E-03
7	7.14E+00	-0.201634414	7	2.70E+00
10	3.45E+04	-0.746553189	10	2.09E+02
4	9.45E-01	-0.167317665	4	1.39E+00
12	9.91E+00	-1	12	2.70E+04
6	2.87E+00	-0.029643286	6	9.87E-01
3	2.29E+00	-0.301301373	3	1.81E+00
3	6.21E-01	-0.389664419	3	2.40E+00
5	6.57E-01	0	5	7.97E-01
3	6.00E-01	-0.194621695	3	1.29E+00
3	6.10E-01	0.140259984	3	4.43E-01
5	6.57E-01	0	5	7.97E-01
2	5.76E-01	-0.002043483	2	6.49E-01
4	3.93E-01	-0.073363831	4	9.77E-01
5	5.11E-01	0.107044866	5	5.05E-01
2	1.53E+00	-0.096642393	2	8.34E-01
3	3.17E-01	0.002297096	3	6.88E-01
3	6.82E-01	0.052509713	3	5.86E-01
2	5.75E-01	-0.009960402	2	6.63E-01
7	1.66E+02	0.327619531	7	1.59E-01
7	9.17E+00	0.149315788	7	4.12E-01
9	2.53E+00	0.448604797	9	5.86E-02
4	3.47E+00	0.685860999	4	5.74E-02
4	1.02E+00	0.037208117	4	6.47E-01
6	1.06E+00	0.248521521	6	2.58E-01

7	1.07E+01	0.276040053	7	2.09E-01
8	1.40E+00	0.09995833	8	5.46E-01
5	9.84E+00	-0.004112467	5	8.11E-01
7	4.34E+01	-0.560958766	7	1.86E+01
62	9.81E-10	0.128943833	62	4.69E-01
9	1.53E+01	-0.703776089	9	9.85E+01
15	2.18E+02	0.28046854	15	1.06E-01
2	5.36E+00	-0.638960745	2	3.51E+00
2	1.24E+00	-0.322717043	2	1.52E+00
4	2.13E+01	-0.201331608	4	1.58E+00
9	2.12E+01	0.178532523	9	3.34E-01
4	4.03E+01	0.505618463	4	1.13E-01
7	6.08E+01	-0.717805754	7	4.30E+01
4	1.34E+01	-0.371562981	4	2.98E+00
4	6.06E+00	-1	4	4.33E+01
9	6.23E+01	-0.275060029	9	6.22E+00
4	1.02E+00	-0.289795449	4	2.19E+00
3	6.57E+00	-1	3	1.98E+01
6	1.22E+01	-0.220491064	6	2.47E+00
13	1.21E+00	-0.239867234	13	1.10E+01
15	1.38E+02	-0.361794095	15	5.38E+01
21	8.75E+15	-1	21	1.63E+07
4	1.86E+01	-0.871047498	4	1.92E+01
7	6.69E+00	0.290335146	7	1.94E-01
8	5.56E+00	0.31365941	8	1.55E-01
7	7.18E-02	0.752237229	7	1.63E-02
11	5.02E-02	0.783564772	11	3.33E-03
2	5.25E-01	0	2	6.46E-01
6	1.13E-01	-0.093027732	6	1.34E+00
15	1.80E-03	0.104020961	15	5.87E-01
8	1.04E+00	0.051630569	8	7.26E-01
18	1.36E+03	-0.635183897	18	2.64E+03
4	2.82E+00	-0.306429682	4	2.33E+00
5	2.43E+01	-0.165032006	5	1.61E+00
16	8.59E+02	-1	16	4.56E+05
14	1.04E+00	0	14	1.50E+00
14	6.55E-01	-0.0954248	14	3.60E+00
7	3.78E-04	0.584579423	7	4.00E-02
4	1.58E+00	-0.52547681	4	5.29E+00
10	6.79E-01	-0.31221407	10	1.00E+01
37	8.17E+02	0.136356435	37	3.96E-01
4	3.51E+00	-0.198266927	4	1.56E+00
8	9.90E-01	-0.600650185	8	3.41E+01
9	7.56E-02	-0.230338739	9	4.66E+00
3	1.72E-01	-0.316304595	3	1.90E+00
3	1.38E+01	-0.154396285	3	1.13E+00
14	2.20E+01	-0.399082665	14	5.79E+01

13	2.02E+01	-0.613362735	13	2.75E+02
2	5.78E-01	0	2	6.46E-01
16	1.35E+00	-0.34041986	16	5.64E+01
5	6.97E-01	-0.004054047	5	8.11E-01
7	4.98E-02	0.354628325	7	1.37E-01
29	4.38E-01	0.122731545	29	5.16E-01
12	3.74E-01	0.129116895	12	4.60E-01
10	6.57E-01	0.764531437	10	5.43E-03
11	3.60E-03	3	11	5.67E-11
17	2.92E-04	0.835641914	17	2.27E-04
4	1.65E-01	0.406130474	4	1.63E-01
9	1.01E+00	-0.008543014	9	1.12E+00
10	9.84E-01	-0.065130021	10	1.79E+00
5	2.07E+00	-0.017694877	5	8.60E-01
11	1.14E+03	0.982742688	11	7.44E-04
5	5.39E-01	-0.365501489	5	3.80E+00
9	3.01E-01	-0.038351261	9	1.35E+00
33	6.00E-02	-0.168594616	33	1.52E+02
24	6.43E-01	0.02257846	24	2.18E+00
11	2.50E-01	-0.01338065	11	1.34E+00
27	3.78E-10	0.89794471	27	1.80E-06
9	7.26E-05	2	9	5.83E-05
6	2.40E-01	2	6	1.93E-04
11	9.68E-04	0.306880024	11	1.21E-01
19	2.75E-01	-0.10490723	19	7.40E+00
11	5.37E-05	1	11	1.69E-05
8	9.39E+00	1	8	6.19E-04
3	9.68E-02	-0.604701623	3	4.77E+00
12	2.68E+04	-0.945303546	12	2.68E+03
16	5.67E+05	-0.35818015	16	6.76E+01
3	1.86E+00	0.454274121	3	1.63E-01
24	1.51E+02	-0.060054421	24	7.27E+00
11	1.03E+02	-0.066956735	11	2.01E+00
10	3.05E+00	-0.206330573	10	4.79E+00
4	4.20E+00	-2	4	2.32E+02
13	1.92E-04	0.943362431	13	4.14E-04
9	8.92E+00	0.633130217	9	1.79E-02
2	2.03E-02	3	2	5.64E-04
2	1.34E-01	0.899470357	2	5.96E-02
3	2.21E-01	0.37778667	3	2.07E-01
11	3.89E-01	0.049537598	11	8.37E-01
5	4.10E-01	-0.113133599	5	1.29E+00
12	3.61E+00	0.239635106	12	1.89E-01
8	3.99E-01	-0.014759926	8	1.07E+00
2	1.69E-01	-0.001641271	2	6.49E-01
2	2.01E-03	0.978208366	2	4.84E-02
6	8.65E-03	0.211753368	6	3.08E-01

5	2.10E-01	0.483636307	5	1.01E-01
16	7.27E+00	0.370768323	16	3.88E-02
10	6.96E+04	-2	10	4.99E+05
7	2.28E+00	-0.133343607	7	1.88E+00
13	5.63E+01	-0.135278006	13	4.49E+00
9	1.73E-01	0.173930061	9	3.44E-01
11	1.31E+00	-0.811710848	11	5.48E+02
10	1.24E+00	-0.099193811	10	2.27E+00
15	9.23E+00	-0.164949161	15	7.97E+00
4	3.68E-01	0.186218707	4	3.71E-01
11	1.14E+01	-0.160006084	11	4.05E+00
43	3.85E+04	-0.184765324	43	1.14E+03
19	1.99E-02	0.447170058	19	1.06E-02
3	1.14E+00	-0.678843235	3	6.05E+00
1	5.74E-01	0.012569835	1	5.86E-01
8	1.63E+00	-0.132301044	8	2.15E+00
11	1.73E+05	-0.104144825	11	2.66E+00
8	4.64E+03	-1	8	8.51E+02
7	1.47E+03	-0.587774272	7	2.14E+01
90	1.89E+06	-0.09818057	90	4.40E+04
5	3.98E-01	-0.133117838	5	1.41E+00
17	2.23E+03	-0.452200075	17	2.43E+02
2	1.93E-01	-0.523928826	2	2.59E+00
7	1.33E-01	0.239125357	7	2.55E-01
14	5.13E+00	0.316914456	14	8.25E-02
7	2.67E+00	0.120348491	7	4.81E-01
12	5.22E-01	0.001880251	12	1.28E+00
51	1.70E-01	0.054673107	51	4.09E+00
13	2.54E+00	0.565971193	13	1.07E-02
28	4.26E-03	-0.628140844	28	1.48E+05
58	6.79E-03	-0.508966913	58	6.54E+08
5	5.54E-01	-0.620966744	5	1.13E+01
7	2.82E+01	-0.66166288	7	3.18E+01
4	6.66E-01	0	4	7.43E-01
4	9.02E-01	0	4	7.43E-01
3	6.79E-01	-0.07265874	3	8.74E-01
4	1.22E+00	-1	4	7.96E+01
2	5.93E-01	-0.108168114	2	8.60E-01
4	1.24E+00	-0.246646116	4	1.87E+00
2	1.25E+00	-0.530388117	2	2.63E+00
7	9.70E+02	-0.632344798	7	2.72E+01
5	8.58E+00	-0.476270189	5	6.11E+00
7	8.00E-01	0.194738143	7	3.23E-01
4	6.24E-01	-0.009894093	4	7.71E-01
3	5.91E-01	0.111322171	3	4.86E-01
15	8.47E+01	-0.203431177	15	1.16E+01
7	7.43E-01	0.082643107	7	5.89E-01

7	6.92E+02	-0.217386744	7	2.94E+00
10	2.39E+01	1	10	4.62E-04
3	6.65E-01	0.381468449	3	2.05E-01
2	2.70E-01	0.13922976	2	4.47E-01
5	9.25E-01	-0.052561888	5	9.98E-01
2	1.23E+00	-0.071335521	2	7.80E-01
1	8.58E-01	-0.530388117	1	1.84E+00
3	3.38E-01	-0.277907303	3	1.68E+00
10	2.15E+01	-0.143711878	10	3.09E+00
2	9.98E-01	-0.339026428	2	1.59E+00
4	6.77E-01	-0.026334178	4	8.20E-01
8	7.68E+01	-0.181478506	8	2.87E+00
9	5.73E+00	-0.48624549	9	2.42E+01
7	3.45E+02	-0.570752242	7	1.96E+01
11	1.51E+03	0.154390288	11	3.80E-01
7	2.07E-01	-0.279279854	7	4.10E+00
9	3.58E+00	-0.701316881	9	9.69E+01
4	4.79E-02	-0.142997081	4	1.27E+00
4	3.05E+00	0.460697583	4	1.33E-01
16	4.45E+02	1	16	7.11E-06
7	1.50E+01	0.1277549	7	4.63E-01
3	2.34E+00	0.341559474	3	2.33E-01
40	8.06E-04	-0.242902559	40	2.65E+03
4	1.11E+00	0	4	7.43E-01
5	7.24E-01	0.004263333	5	7.83E-01
5	1.03E-01	1	5	2.85E-03
14	1.49E-03	0.388843861	14	4.27E-02
12	9.16E-04	0.534742989	12	1.74E-02
4	5.12E-03	0.967698751	4	2.00E-02
4	3.55E-01	0.31457822	4	2.30E-01
7	2.05E-01	0.125421445	7	4.69E-01
16	1.03E+00	0.076503118	16	7.89E-01
3	2.60E+00	-0.172607361	3	1.20E+00
6	3.49E-01	-0.007697751	6	8.88E-01
9	7.23E-01	0.206454163	9	2.79E-01
26	2.57E-01	0.047277375	26	1.66E+00
7	2.88E-01	0.716969007	7	1.97E-02
6	7.07E-01	-0.044964268	6	1.06E+00
2	4.31E-01	-0.574272649	2	2.96E+00
13	1.01E-01	0.598959304	13	8.04E-03
4	1.53E-01	-0.128695816	4	1.20E+00
2	4.97E-03	2	2	5.61E-03
12	4.42E-03	2	12	4.36E-07
29	2.60E-09	1	29	3.66E-09
9	7.00E-01	0.036245095	9	8.36E-01
11	3.40E+00	0.002556394	11	1.19E+00
56	8.11E+02	-0.224825804	56	3.76E+04

55	4.10E-07	0.20488911	55	4.32E-02
6	1.70E-02	0.113088047	6	4.96E-01
9	1.08E+00	-0.160828356	9	2.98E+00
6	2.57E-01	-0.216505719	6	2.43E+00
30	2.40E-01	0.015611255	30	3.50E+00
5	3.71E-01	0	5	7.97E-01
7	4.85E-01	0.157150189	7	3.95E-01
6	6.60E-01	-0.176490056	6	2.00E+00
10	1.53E+03	-0.100062547	10	2.28E+00
28	2.98E+04	0.116440489	28	5.71E-01
1	1.48E+00	-0.09131507	1	7.30E-01
52	1.31E+03	0.403106666	52	1.34E-04
23	6.61E-02	1	23	5.71E-07
15	2.38E+00	0.074911533	15	7.79E-01
9	1.11E+01	1	9	6.88E-05
25	3.00E+06	-0.265271876	25	1.79E+02
4	2.14E+00	-0.361319722	4	2.86E+00
1	5.31E-01	-0.033937764	1	6.47E-01
4	5.32E-01	-0.169635216	4	1.40E+00
25	3.37E-01	0.392241186	25	8.64E-03
1	5.57E-01	2.14E-05	1	6.02E-01
5	2.71E-01	-0.521256036	5	7.40E+00
5	9.14E-01	-0.036816826	5	9.33E-01
5	6.57E-01	0	5	7.97E-01
14	1.00E+02	-0.31553959	14	2.70E+01
9	3.74E+00	-0.527020551	9	3.15E+01
7	3.91E-01	0.188950512	7	3.33E-01
9	1.76E+00	-0.017131226	9	1.18E+00
8	1.71E+00	-0.281159349	8	5.17E+00
3	2.29E+01	-0.286212578	3	1.73E+00
11	1.37E+01	-0.112079359	11	2.83E+00
5	7.63E-01	0.009715355	5	7.65E-01
18	3.43E+00	-0.128467316	18	8.51E+00
5	6.20E+00	-0.726337099	5	1.78E+01
13	4.55E+03	-0.038801159	13	1.95E+00
11	3.52E+01	-0.128866285	11	3.21E+00
16	4.13E+05	-0.340226146	16	5.63E+01
8	1.13E-03	0.402291302	8	9.16E-02
5	3.72E-01	0.005398894	5	7.79E-01
3	5.88E-01	0	3	6.93E-01
7	2.93E+00	-0.192314511	7	2.57E+00
4	6.24E-01	0	4	7.43E-01
5	3.64E-01	0.24131888	5	2.84E-01
9	6.12E-01	-0.020966254	9	1.21E+00
25	5.84E-07	0.6495517	25	1.77E-04
62	2.17E+05	-0.192423205	62	3.81E+04
5	6.51E-01	-0.128453483	5	1.38E+00

10	2.16E-03	-0.250717255	10	6.53E+00
24	8.80E+01	-0.336170266	24	4.07E+02
2	5.67E-01	-0.056894098	2	7.51E-01
6	7.12E-01	0.01812061	6	7.84E-01
2	1.26E+00	-0.405385812	2	1.89E+00
9	1.15E+00	-0.108607738	9	2.13E+00
16	1.14E-01	-0.288991162	16	3.33E+01
16	6.48E-03	-0.058988498	16	3.16E+00
11	2.03E+00	-0.283355083	11	1.03E+01
24	4.17E+02	-0.531907867	24	7.06E+03
24	9.39E+01	0.619627867	24	3.62E-04
2	5.67E-01	0	2	6.46E-01
4	7.77E-01	-0.305495305	4	2.33E+00
2	6.08E-01	-0.088587905	2	8.17E-01
2	5.64E-01	-0.128074659	2	9.07E-01
2	6.49E-01	0.116273071	2	4.75E-01
1	5.55E-01	0.026749606	1	5.69E-01
21	1.15E+02	-0.161290481	21	1.98E+01
6	9.08E-01	-0.056324021	6	1.12E+00
15	3.35E-01	-0.080107155	15	3.50E+00
4	5.90E-01	-0.089227881	4	1.04E+00
39	4.53E-05	-0.160293306	39	3.31E+02
2	6.46E-01	0	2	6.46E-01
16	2.09E+00	-0.656876173	16	1.44E+03
5	3.59E-01	0.068152261	5	5.96E-01
5	1.51E+00	0.147571978	5	4.24E-01
3	5.95E-01	-0.039074365	3	7.85E-01
2	7.46E-01	-0.1382094	2	9.31E-01
6	3.52E+00	0.344501683	6	1.63E-01
7	1.71E+00	-0.146931294	7	2.02E+00
8	2.66E+00	-0.377850331	8	9.16E+00
10	1.15E+00	-0.112191802	10	2.48E+00
2	5.64E-01	0	2	6.46E-01
2	5.58E-01	-0.032089566	2	7.03E-01
3	6.16E-01	0	3	6.93E-01
3	5.10E-02	-0.177206996	3	1.22E+00
7	3.21E-11	2	7	2.75E-04
1	1.76E-02	1	1	6.82E-02
3	4.35E-03	0.507836284	3	1.37E-01
3	1.03E-01	-0.017373051	3	7.32E-01
34	2.82E+01	0.252860027	34	3.90E-02
2	5.64E-01	0	2	6.46E-01
3	6.04E-01	0	3	6.93E-01
6	9.72E-01	-0.104777246	6	1.42E+00
19	7.53E-01	0.002270333	19	2.08E+00
5	4.33E-01	0.023913986	5	7.20E-01
31	1.64E-02	-0.015799781	31	6.63E+00

10	3.81E-01	-0.080056652	10	1.98E+00
2	5.64E-01	0	2	6.46E-01
13	2.05E+01	-0.134621229	13	4.46E+00
3	6.64E-01	-0.048166259	3	8.08E-01
3	4.50E-01	0.1057662	3	4.94E-01
18	7.58E+00	-0.09853409	18	6.07E+00
12	2.56E+01	-0.379881541	12	2.80E+01
18	4.36E+01	-0.011126468	18	2.25E+00
7	1.21E+01	-0.362343675	7	6.40E+00
5	4.19E+00	0.431807566	5	1.26E-01
15	3.09E+03	-0.353256632	15	4.95E+01
7	2.51E-02	0.095467527	7	5.50E-01
8	2.72E-01	0.269017032	8	2.01E-01
7	3.23E-01	0.072487962	7	6.22E-01
7	1.75E+00	-0.082782396	7	1.43E+00
9	1.67E+01	0.038455874	9	8.24E-01
3	2.11E-02	0.446969678	3	1.66E-01
8	9.38E-04	0.44640715	8	7.06E-02
5	1.29E-02	-0.736108219	5	1.86E+01
5	1.94E+01	-0.536346045	5	7.90E+00
3	1.91E+00	-0.52220943	3	3.67E+00
3	1.79E-01	-0.773404794	3	8.17E+00
17	3.19E-01	-0.009435595	17	2.05E+00
10	9.07E-04	2	10	1.46E-05
11	3.23E-02	0.23905766	11	2.01E-01
4	2.14E-02	0.114539457	4	4.85E-01
2	7.56E-02	0.055994601	2	5.57E-01
6	8.62E-02	0.225421827	6	2.89E-01
4	1.16E+00	0.146592512	4	4.30E-01
1	4.79E-01	0	1	6.02E-01
14	5.27E-02	0.294137382	14	1.02E-01
4	7.65E-01	0	4	7.43E-01
15	8.77E-01	3	15	6.18E-13
4	1.43E-03	1	4	4.22E-03
7	1.61E-03	0.562588037	7	4.50E-02
42	2.44E-08	0.2020954	42	7.85E-02
7	1.34E-02	-0.380656161	7	7.06E+00
1	1.52E-01	0.000432448	1	6.01E-01
9	1.02E+00	0.006404801	9	1.01E+00
12	1.03E+00	0.034748449	12	9.85E-01
39	3.66E-03	0.872377494	39	2.17E-08
10	1.02E+00	-0.212597144	10	5.00E+00
1	8.77E-01	-0.28943181	1	1.11E+00
8	1.22E+01	-0.085392848	8	1.63E+00
4	1.09E+02	0.438599729	4	1.45E-01
2	6.59E-01	0.263552176	2	3.21E-01
7	1.08E+00	-0.10753513	7	1.63E+00

5	6.58E-01	-0.375937357	5	3.98E+00
4	1.94E-01	-0.010267672	4	7.72E-01
21	1.21E-03	-0.228367586	21	4.72E+01
26	4.12E+00	-0.173876684	26	5.31E+01
4	1.03E+00	-0.35472458	4	2.79E+00
7	3.42E+02	-0.479154268	7	1.20E+01
14	1.52E-02	0.301748488	14	9.47E-02
37	5.91E-02	0.039465878	37	3.22E+00
35	9.61E+00	-0.242212079	35	9.50E+02
2	7.94E-01	-0.240461962	2	1.22E+00
23	1.28E+03	2	23	1.17E-10
41	3.23E-04	0.461211735	41	1.72E-04
10	4.60E-01	-0.24489635	10	6.27E+00
4	2.97E+00	0	4	7.43E-01
2	5.64E-01	0	2	6.46E-01
10	6.44E-01	-0.117350634	10	2.57E+00
6	6.00E-01	-0.118334759	6	1.51E+00
17	5.28E+00	-0.095340563	17	5.18E+00
11	7.94E-01	-0.050034335	11	1.77E+00
8	7.81E+01	-0.48717798	8	1.75E+01
7	6.34E+00	-0.679055261	7	3.49E+01
1	5.36E-01	0	1	6.02E-01
1	5.36E-01	0	1	6.02E-01
3	5.93E-01	0	3	6.93E-01
3	5.93E-01	0.007595114	3	6.76E-01
1	5.36E-01	0.015867203	1	5.82E-01
5	2.91E+00	-0.063757178	5	1.05E+00
3	9.15E-01	-0.470088486	3	3.11E+00
10	2.95E+02	-0.318860934	10	1.05E+01
2	6.31E-01	0.030229541	2	5.96E-01
6	1.76E+00	-0.249494908	6	2.85E+00
7	1.11E+00	-0.022624677	7	1.04E+00
6	6.22E-01	0.016758944	6	7.89E-01
8	6.21E-01	0.223423642	8	2.63E-01
9	8.51E-01	0.015182491	9	9.58E-01
12	6.05E-01	0.159855455	12	3.59E-01
33	1.05E+02	-0.132082503	33	7.45E+01
18	2.37E+02	0.926908281	18	5.50E-05
3	8.77E+01	0.011839175	3	6.67E-01
19	2.86E-01	-0.311612945	19	8.60E+01
12	4.44E-01	0.05495917	12	8.37E-01
1	5.36E-01	0	1	6.02E-01
4	1.00E+00	-0.296299158	4	2.25E+00
25	1.07E-03	0.020181176	25	2.40E+00
10	1.33E-01	-0.027179949	10	1.37E+00
1	5.86E-03	0.458770199	1	2.29E-01
1	5.18E-01	0	1	6.02E-01

3	1.78E+00	0	3	6.93E-01
18	2.93E+00	-0.161736586	18	1.24E+01
3	1.23E-04	2	3	4.35E-04
4	3.99E-02	0.27167544	4	2.70E-01
3	3.77E-05	3	3	4.97E-05
2	4.04E-01	0.367737132	2	2.44E-01
6	6.81E-02	-0.480043642	6	8.64E+00
6	2.24E+00	-0.082203696	6	1.27E+00
10	2.74E+00	-0.248828893	10	6.44E+00
15	1.55E+00	-0.152953289	15	7.10E+00
9	2.19E+00	-0.497251	9	2.60E+01
1	5.36E-01	0	1	6.02E-01
6	7.49E-01	-0.040107853	6	1.04E+00
8	2.21E+00	-0.388960569	8	9.78E+00
5	9.43E+00	-0.247011704	5	2.29E+00
17	1.10E+00	-0.054743952	17	3.34E+00
21	7.72E-01	0.018905654	21	1.92E+00
4	2.85E-02	0.660524768	4	6.31E-02
6	5.99E-02	0.063047363	6	6.31E-01
18	1.46E+00	0.059711732	18	1.01E+00
2	2.48E-02	-0.272493556	2	1.33E+00
11	7.24E-01	0.155106931	11	3.78E-01
13	1.63E+00	-0.176948761	13	6.42E+00
15	7.56E-01	-0.195693396	15	1.07E+01
1	5.36E-01	0	1	6.02E-01
6	8.51E-01	-0.045195914	6	1.06E+00
1	5.18E-01	0.033962907	1	5.60E-01
1	5.47E-01	-0.013293048	1	6.19E-01
1	5.50E-01	-0.016770956	1	6.24E-01
7	7.46E-01	-0.065172655	7	1.30E+00
7	9.88E-01	0	7	9.18E-01
3	3.23E-01	0.185343101	3	3.83E-01
1	2.25E-01	0.737233461	1	1.27E-01
7	1.53E+00	0.13751689	7	4.39E-01
2	4.46E-01	0.793965246	2	7.88E-02
3	4.22E-02	-1	3	3.23E+01
1	4.94E-01	-1	1	5.06E+00
2	4.72E-01	-0.678268687	2	3.89E+00
56	7.43E-05	0.247457086	56	1.06E-02
1	5.36E-01	0	1	6.02E-01
3	7.68E-02	0.362988837	3	2.18E-01
19	5.03E-04	0.206841504	19	1.83E-01
5	6.70E-01	0.010401393	5	7.63E-01
3	9.79E-01	0.315116745	3	2.53E-01
11	2.75E+00	1	11	2.03E-04
5	6.57E-01	-0.167053234	5	1.63E+00
18	3.39E+00	0.076022882	18	8.40E-01

11	1.51E+01	-0.222435361	11	6.49E+00
4	6.24E-01	-0.003915637	4	7.54E-01
3	4.14E-01	-0.237770817	3	1.48E+00
7	6.96E-01	0.220418568	7	2.82E-01
7	7.74E-01	0	7	9.18E-01
8	8.69E-11	3	8	2.16E-07
6	3.49E-06	2	6	9.66E-05
11	2.66E-01	-0.267472141	11	9.10E+00
2	1.18E+00	0.482551382	2	1.80E-01
4	3.14E-01	0.356179429	4	1.97E-01
4	6.56E-01	0.121930798	4	4.71E-01
10	3.85E-01	-0.119016184	10	2.60E+00
3	5.64E-01	0.262692124	3	3.00E-01
5	6.57E-01	0.696155802	5	4.06E-02
7	3.72E-01	-0.497565756	7	1.32E+01
6	1.03E+00	-0.115693466	6	1.49E+00
53	2.06E-04	0.172264286	53	1.26E-01
3	4.01E-01	0	3	6.93E-01
6	3.62E-01	-0.018731277	6	9.36E-01
8	1.04E+00	0.072521616	8	6.42E-01
13	8.44E-01	2	13	2.69E-06
2	4.47E-01	-0.132403241	2	9.17E-01
9	3.92E+00	0.045098956	9	7.90E-01
9	8.58E+00	-0.445975491	9	1.87E+01
1	5.36E-01	0	1	6.02E-01
7	1.57E+00	-0.158695751	7	2.15E+00
2	5.93E-01	-0.038486524	2	7.15E-01
7	1.43E+00	-0.272483916	7	3.95E+00
9	1.34E+00	-0.183188762	9	3.44E+00
7	1.03E+02	-0.132278316	7	1.86E+00
7	7.67E-01	0.290643691	7	1.93E-01
3	5.79E-01	0	3	6.93E-01
5	7.08E-01	0.004905343	5	7.81E-01
5	1.34E+00	-0.108392423	5	1.27E+00
4	9.09E-01	0.039303052	4	6.42E-01
3	1.20E+00	-0.193918979	3	1.29E+00
6	6.41E-01	-0.105469604	6	1.42E+00
5	6.86E+01	-0.152394636	5	1.53E+00
4	7.48E-01	0.022330212	4	6.84E-01
3	1.55E-01	-0.38540586	3	2.37E+00
1	5.57E-01	0.047736326	1	5.44E-01
4	5.41E-01	-0.012039733	4	7.77E-01
5	2.55E-01	0.00355973	5	7.85E-01
4	1.09E+00	0.112474877	4	4.88E-01
3	2.88E+00	0.206845344	3	3.58E-01
4	9.37E-01	-0.075985467	4	9.87E-01
8	3.42E+00	-0.215724847	8	3.52E+00

2	7.34E-01	-0.2906169	2	1.39E+00
7	2.84E+00	-0.547514185	7	1.73E+01
5	6.57E-01	-0.005690793	5	8.17E-01
5	6.57E-01	0	5	7.97E-01
2	5.95E-01	-0.069640799	2	7.77E-01
5	3.17E+01	-0.804993466	5	2.49E+01
1	2.61E-01	0.028868125	1	5.66E-01
4	3.76E-01	-0.212742335	4	1.64E+00
6	2.10E-08	3	6	3.71E-07
5	2.97E-01	-0.004797293	5	8.14E-01
10	4.19E-01	-0.000410619	10	1.14E+00
8	7.17E-02	0.060571658	8	6.89E-01
3	6.89E-01	0	3	6.93E-01
10	8.00E-02	-0.597292532	10	7.35E+01
6	6.99E-01	-0.028994176	6	9.84E-01
1	4.83E-01	0.011826699	1	5.87E-01
9	2.67E-02	0.212924628	9	2.68E-01
5	4.97E-01	0.146188344	5	4.27E-01
2	5.85E-01	-0.096446711	2	8.34E-01
11	8.05E+01	-0.336270834	11	1.53E+01
1	5.36E-01	-0.008194822	1	6.12E-01
1	5.36E-01	0	1	6.02E-01
22	6.13E+00	-0.128789604	22	1.50E+01
10	8.57E-02	-0.091791484	10	2.15E+00
12	1.05E+02	-0.059503595	12	2.11E+00
2	3.06E+00	-1	2	2.56E+01
1	5.24E-01	0	1	6.02E-01
1	5.36E-01	0	1	6.02E-01
2	5.96E-01	-0.053321484	2	7.44E-01
18	1.37E+00	-0.138515659	18	9.54E+00
33	6.03E-07	0.370708033	33	4.21E-03
1	5.48E-01	-0.014495455	1	6.21E-01
13	1.75E-05	0.055879811	13	8.65E-01
3	4.33E-01	0	3	6.93E-01
12	8.58E-01	0.301441298	12	1.14E-01
5	5.08E-01	-0.599608685	5	1.04E+01
20	6.18E-01	1	20	3.28E-08
10	1.57E+00	2	10	2.13E-07
4	3.86E-02	0.606405875	4	7.72E-02
21	1.80E-03	0.242892668	21	1.06E-01
2	5.05E-01	-0.086493702	2	8.12E-01
4	2.26E-01	0.028806922	4	6.67E-01
40	6.15E-16	0.470086861	40	1.67E-04
5	8.96E-01	0.160920552	5	4.01E-01
4	1.83E+00	-0.195333312	4	1.54E+00
2	5.64E-01	0	2	6.46E-01
7	8.75E-02	-0.379567163	7	7.02E+00

8	1.12E-01	-0.624779909	8	3.93E+01
2	8.25E-01	0	2	6.46E-01
3	6.12E-01	0	3	6.93E-01
1	5.20E-01	-0.007990518	1	6.12E-01
28	2.82E-01	-0.126955784	28	3.36E+01
32	1.51E-03	0.071555182	32	1.37E+00
10	4.18E-01	-0.75728262	10	2.25E+02
7	2.40E-02	-0.607617187	7	2.38E+01
3	4.66E-01	-0.648548471	3	5.49E+00
2	8.09E-01	0.043338189	2	5.76E-01
4	4.44E-01	-0.390876706	4	3.20E+00
4	5.09E-01	-0.685137964	4	9.59E+00
5	6.34E-01	0.048160141	5	6.49E-01
2	8.18E-01	0.16313247	2	4.19E-01
1	4.82E+00	-0.362337257	1	1.29E+00
3	6.27E+00	0.243684841	3	3.18E-01
17	1.09E+03	0.082047026	17	7.65E-01
20	1.25E+05	-0.343418579	20	1.62E+02
5	7.30E+00	-0.854789693	5	3.08E+01
10	7.34E-01	0.234277296	10	2.20E-01
14	3.39E-01	0.015754856	14	1.30E+00
4	6.21E-01	-0.055560324	4	9.15E-01
41	2.23E+01	0.057340221	41	2.56E+00
19	1.07E+02	-0.390928843	19	2.21E+02
2	7.54E-01	0.061165392	2	5.49E-01
41	6.16E+00	0.044138636	41	3.50E+00
5	1.79E+01	-1	5	3.11E+02
6	8.67E-01	-0.038902222	6	1.03E+00
5	2.22E-01	-0.325225499	5	3.20E+00
4	8.60E+00	-0.331560565	4	2.56E+00
7	3.14E-01	-0.568392274	7	1.93E+01
3	6.01E-01	-0.052924261	3	8.20E-01
10	1.78E+01	0.28078059	10	1.59E-01
1	5.47E-01	0.033962907	1	5.60E-01
1	5.47E-01	0.033962907	1	5.60E-01
1	5.47E-01	0.027373291	1	5.68E-01
14	6.39E+01	0.228412414	14	1.85E-01
7	8.01E-01	-0.010601642	7	9.71E-01
23	2.36E-01	0.226678071	23	1.17E-01
4	5.11E-01	-0.203839069	4	1.59E+00
2	4.06E-01	-0.111272067	2	8.67E-01
5	6.61E-01	-0.09285009	5	1.19E+00
3	6.12E-01	-0.334241502	3	2.01E+00
8	7.23E-02	-0.04058713	8	1.25E+00
11	2.99E+00	-0.009306167	11	1.30E+00
27	2.69E-01	0.236447191	27	8.11E-02
16	2.24E-03	0.504899099	16	9.82E-03

12	3.46E-04	0.560194085	12	1.42E-02
7	7.76E-01	0.09431263	7	5.54E-01
18	1.33E-05	0.20821433	18	1.88E-01
6	6.72E-05	-0.630856353	6	1.79E+01
15	5.09E-02	-0.196809356	15	1.09E+01
18	4.07E+01	-0.177681786	18	1.49E+01
5	5.21E+00	-0.114590256	5	1.30E+00
4	1.10E+01	-0.768594303	4	1.31E+01
4	4.64E-01	-0.520379252	4	5.19E+00
6	4.37E+00	0.393568127	6	1.28E-01
37	3.20E+02	1	37	7.46E-10
5	2.76E+00	2	5	5.84E-04
5	2.74E-01	-0.385396858	5	4.14E+00
15	1.06E-01	0.176444062	15	2.91E-01
4	2.49E-01	-0.387034258	4	3.15E+00
3	1.57E+00	-0.840962684	3	1.01E+01
10	1.20E+00	0.022217175	10	9.70E-01
4	6.23E-01	-0.011031053	4	7.74E-01
17	3.17E-03	0.646830905	17	1.73E-03
8	1.70E-01	0.656778012	8	2.04E-02
17	3.49E+04	0.156392435	17	3.43E-01
10	1.96E+00	-0.117035147	10	2.57E+00
4	1.82E+01	0.256885954	4	2.85E-01
6	2.85E+00	-0.502394515	6	9.62E+00
20	2.00E-01	2	20	1.65E-08
11	2.10E+01	0.644465896	11	9.50E-03
5	1.07E+01	-0.368404457	5	3.85E+00
1	1.83E-01	-0.017866391	1	6.25E-01
21	2.28E+00	3	21	3.49E-19
18	8.68E-01	1	18	9.41E-08
16	8.05E+04	-0.705076892	16	2.36E+03
13	3.30E-01	-0.32603885	13	2.32E+01
1	5.89E-01	-0.122823161	1	7.80E-01
25	2.72E-03	-0.075248915	25	1.01E+01
5	4.97E-01	-0.096052124	5	1.20E+00
9	3.58E+01	0.058952096	9	7.22E-01
12	6.77E+00	0.043891014	12	9.15E-01
13	1.49E+00	-0.249458472	13	1.20E+01
2	1.42E+00	-0.115028857	2	8.76E-01
28	4.06E+01	2	28	3.63E-11
7	2.24E-01	0.302223244	7	1.82E-01
3	1.92E-02	-0.259318615	3	1.58E+00
9	1.87E-01	0.397280411	9	8.16E-02
1	2.72E-01	0.678356229	1	1.44E-01
6	2.60E-02	-0.020522807	6	9.44E-01
10	5.19E-04	0.304513537	10	1.35E-01
4	5.46E-01	0.195564784	4	3.58E-01

2	5.50E-01	0.143559224	2	4.41E-01
3	5.93E-01	0	3	6.93E-01
2	6.83E-01	0.000111103	2	6.46E-01
3	5.93E-01	-0.031157183	3	7.65E-01
10	1.98E+01	-0.32252563	10	1.08E+01
5	1.11E+00	0.115081854	5	4.87E-01
6	1.51E+00	-0.2836655	6	3.35E+00
9	2.12E+00	0	9	1.06E+00
14	2.73E-01	-0.385473721	14	5.12E+01
9	6.26E-01	-0.130892376	9	2.45E+00
4	3.51E-01	0.413227786	4	1.59E-01
6	2.51E-02	0.325918375	6	1.78E-01
5	4.08E-02	0.570037924	5	6.97E-02
12	4.24E-02	-0.378270116	12	2.76E+01
4	1.09E-01	0.298366134	4	2.44E-01
4	6.45E-01	-0.565980955	4	6.15E+00
16	4.75E+03	0.73270211	16	9.53E-04
12	1.74E+02	1	12	3.33E-04
2	6.30E-01	-0.203331497	2	1.11E+00
1	2.97E-01	-0.060058907	1	6.83E-01
18	6.52E+00	-0.021672831	18	2.54E+00
2	3.83E-01	-0.103088571	2	8.49E-01
9	2.19E+00	-0.274179074	9	6.18E+00
10	7.75E-01	-0.336898439	10	1.19E+01
3	6.31E-01	0.073183388	3	5.48E-01
1	8.93E-01	0.215179807	1	3.83E-01
7	7.78E-01	0.885756926	7	7.96E-03
4	1.90E+00	-0.247077994	4	1.87E+00
19	2.00E+03	-0.83405092	19	4.24E+04
9	7.02E+00	-0.201556553	9	3.87E+00
4	3.71E+00	-0.306587515	4	2.33E+00
7	3.20E+00	2	7	3.79E-06
5	4.96E-03	2	5	2.35E-05
4	5.71E-02	0.622351848	4	7.28E-02
6	4.04E-02	-0.35218408	6	4.67E+00
16	3.36E-01	-0.407385606	16	1.12E+02
5	2.55E+00	-1	5	6.51E+01
3	3.47E-02	-0.441950267	3	2.84E+00
8	5.20E-01	-0.332141116	8	6.99E+00
20	1.00E+02	-1	20	8.39E+07
13	2.57E-01	-0.274360594	13	1.49E+01
7	1.98E-01	0.566264032	7	4.41E-02
1	3.41E-01	0.071362304	1	5.18E-01
55	4.36E-09	0.381423763	55	1.69E-04
1	5.36E-01	0	1	6.02E-01
6	2.48E-01	-0.259083618	6	2.98E+00
15	4.33E-06	-0.064789155	15	3.02E+00

9	2.57E-01	-0.182461379	9	3.42E+00
4	1.01E+00	-0.146793918	4	1.29E+00
43	4.64E+02	-0.208404374	43	2.06E+03
2	5.47E-02	2	2	2.42E-03
35	2.31E-02	0.122357513	35	5.32E-01
16	2.15E-03	1	16	4.91E-05
12	1.47E+02	-0.077825464	12	2.44E+00
3	1.26E+00	-0.128785711	3	1.04E+00
16	9.40E+02	0.202555587	16	2.17E-01
21	5.77E+02	-0.274560435	21	8.59E+01
11	3.85E+03	-0.667891545	11	1.86E+02
2	5.53E-01	-0.00993777	2	6.63E-01
10	6.79E-01	0.117598544	10	4.98E-01
27	2.90E-01	-0.103319508	27	2.00E+01
25	8.03E-02	-0.065336194	25	8.73E+00
19	4.73E-01	0.010250472	19	1.89E+00
21	9.04E-01	0.098635439	21	6.84E-01
51	8.70E+00	0.090555998	51	1.43E+00
9	1.39E+00	0.219816875	9	2.56E-01
14	6.09E-01	0.079835834	14	7.23E-01
13	2.88E-02	-0.831071813	13	1.80E+03
4	6.66E-01	-0.013538139	4	7.82E-01
7	2.25E+00	-0.140637806	7	1.95E+00
17	8.91E+01	-0.139563936	17	8.34E+00
11	4.85E+05	-0.37300874	11	2.02E+01
6	1.80E-01	-0.118004974	6	1.51E+00
1	5.36E-01	-0.008194822	1	6.12E-01
6	8.56E-01	-0.126894646	6	1.58E+00
17	6.11E+00	-0.230486565	17	2.22E+01
5	2.41E+00	0.217729696	5	3.14E-01
8	1.06E+01	0.083479324	8	6.01E-01
11	3.27E+01	-0.215764269	11	6.17E+00
6	9.49E+00	-0.212211403	6	2.38E+00
10	3.24E-01	0.278427415	10	1.62E-01
9	5.39E-02	-0.572079703	9	4.21E+01
14	6.41E-01	-0.258003627	14	1.59E+01
13	7.22E-01	0.035731258	13	1.03E+00
12	4.07E+00	-0.563847684	12	1.23E+02
32	2.09E+09	2	32	3.73E-17
4	1.46E-01	-0.175774687	4	1.43E+00
24	5.50E+06	-0.928734672	24	2.30E+06
20	7.11E-01	-0.003842765	20	2.40E+00
12	2.78E-01	-0.163298342	12	4.87E+00
22	9.07E+06	-0.624503813	22	1.20E+04
22	4.99E+05	-0.343700006	22	2.72E+02
17	1.63E+02	-0.808522003	17	1.13E+04
19	5.86E+00	-0.877092462	19	7.06E+04

8	2.48E+00	2	8	2.85E-05
9	6.44E-01	0.328873715	9	1.27E-01
6	1.23E+00	-0.305950002	6	3.73E+00
6	2.97E+01	-1	6	2.17E+02
7	1.84E+01	-0.051385319	7	1.21E+00
4	6.69E-01	-0.129307089	4	1.20E+00
12	5.99E+05	-0.563383453	12	1.23E+02
4	6.24E-01	0.004580994	4	7.31E-01
4	6.26E-01	0.771018353	4	4.18E-02
12	1.94E+06	0.895193601	12	9.50E-04
4	5.93E+00	-0.470335612	4	4.30E+00
9	2.59E+01	-0.385679921	9	1.27E+01
12	1.45E+00	-0.186133912	12	5.86E+00
8	3.58E+03	-0.609298266	8	3.59E+01
8	1.95E+00	-0.055681071	8	1.37E+00
1	1.11E+00	-0.02121048	1	6.29E-01
8	9.89E+00	-0.781030239	8	9.89E+01
5	1.41E+00	-0.085764794	5	1.15E+00
7	1.04E+01	0.208146279	7	3.01E-01
4	1.61E+00	0.108134188	4	4.96E-01
5	2.16E+00	0.343004965	5	1.84E-01
10	3.52E+00	0.20664176	10	2.67E-01
18	9.34E+01	-0.16061049	18	1.23E+01
3	3.98E-01	-0.113168834	3	9.94E-01
2	5.54E-01	0	2	6.46E-01
3	9.02E-02	-0.291210707	3	1.75E+00
5	5.89E-01	-0.569013106	5	9.08E+00
8	1.32E+00	0.125492152	8	4.69E-01
12	9.88E-01	0.43972442	12	3.75E-02
6	6.52E-01	0.550868024	6	6.02E-02
9	2.20E-01	-0.240952998	9	4.99E+00
3	2.06E+00	-0.25218233	3	1.55E+00
8	6.16E+01	0.157136149	8	3.89E-01
7	1.68E+00	-0.126192264	7	1.80E+00
6	1.72E+00	0.050854656	6	6.69E-01
7	4.86E+02	-1	7	1.07E+03
6	5.29E+02	-0.506344035	6	9.81E+00
9	4.96E+01	-0.351466497	9	1.02E+01
1	5.51E-01	-0.024446129	1	6.34E-01
3	2.79E+00	-0.226420703	3	1.43E+00
4	3.17E+00	-0.080873094	4	1.01E+00
7	1.92E+01	0.44624724	7	8.39E-02
4	7.03E-01	-0.071109886	4	9.69E-01
9	3.63E+01	0.182294584	9	3.26E-01
2	1.19E+00	-0.14398513	2	9.46E-01
5	6.26E+01	-0.099075215	5	1.22E+00
9	3.38E+04	0.11869317	9	4.91E-01

5	1.16E+00	0.017068095	5	7.41E-01
5	5.12E+00	1	5	6.05E-03
6	1.60E+00	-0.156168393	6	1.82E+00
8	3.58E+02	-0.643987528	8	4.40E+01
8	1.54E+03	-0.45579914	8	1.45E+01
10	2.72E+04	-0.844236372	10	4.13E+02
6	2.03E+00	-0.107046599	6	1.43E+00
12	2.84E+00	0.137333926	12	4.30E-01
7	6.16E+00	0.423763496	7	9.47E-02
3	1.03E+00	-0.027501586	3	7.56E-01
5	5.41E-01	-0.021761934	5	8.75E-01
8	1.99E+01	0.006363163	8	9.48E-01
7	1.86E+01	-0.677280871	7	3.46E+01
10	2.99E+01	-0.092356157	10	2.16E+00
8	1.10E+02	-0.115968474	8	1.95E+00
4	3.79E+00	0.875791368	4	2.83E-02
8	2.46E+02	-0.496068541	8	1.84E+01
7	2.00E+00	-0.437283641	7	9.56E+00
7	2.08E+00	-0.49306096	7	1.29E+01
8	1.04E+01	-0.689395445	8	5.76E+01
4	9.71E+00	0.315865518	4	2.29E-01
3	5.80E-01	-0.112296206	3	9.91E-01
3	7.47E-01	-0.237201284	3	1.48E+00
8	1.87E+00	-0.479681573	8	1.67E+01
1	5.17E-01	0.011657501	1	5.87E-01
6	1.11E+00	0.093518055	6	5.45E-01
3	1.12E+01	-0.358897475	3	2.18E+00
6	1.61E+01	-0.178075654	6	2.02E+00
5	1.16E+00	-0.5191294	5	7.34E+00
4	1.52E+02	-0.712249667	4	1.06E+01
2	1.66E+00	-0.425935314	2	2.00E+00
7	9.57E+00	0.843861913	7	9.96E-03
5	2.37E+01	-0.830270862	5	2.78E+01
4	8.10E-01	-0.294381346	4	2.23E+00
6	2.91E-01	-0.008786483	6	8.92E-01
5	6.57E-01	0.014072829	5	7.51E-01
9	2.46E+00	0.031673729	9	8.61E-01
4	3.77E+00	-0.185926245	4	1.49E+00
5	1.06E+01	-0.451361431	5	5.49E+00
5	3.58E+00	0.539520601	5	7.94E-02
5	9.47E-01	-0.100456488	5	1.23E+00
6	8.18E-01	-0.163410594	6	1.88E+00
3	7.73E-01	-0.069200738	3	8.64E-01
2	1.01E+00	-0.191980201	2	1.07E+00
8	3.36E+01	-0.205989884	8	3.32E+00
14	3.59E+03	-0.356872737	14	3.94E+01
5	7.69E-01	0.233327914	5	2.94E-01

9	9.68E+00	-0.616999351	9	5.63E+01
8	1.61E+01	-0.804641889	8	1.14E+02
5	5.93E+00	-0.562067003	5	8.82E+00
3	4.91E-01	-0.092778906	3	9.31E-01
3	5.93E-01	0.180023784	3	3.90E-01
10	2.84E+00	0.075338229	10	6.69E-01
7	6.82E+00	0.253932389	7	2.35E-01
4	2.60E+01	-0.496410591	4	4.74E+00
4	3.17E+00	-1	4	8.56E+01
13	4.18E+01	0.15349787	13	3.73E-01
3	1.41E+00	-0.111603376	3	9.89E-01
2	1.13E+00	-0.427780675	2	2.01E+00
1	5.36E-01	0	1	6.02E-01
3	8.37E-01	0.489457088	3	1.45E-01
6	1.54E+00	0.134136889	6	4.48E-01
12	7.27E-01	-0.208700294	12	7.03E+00
7	7.14E+00	-0.252611117	7	3.55E+00
25	8.50E+06	0.475012886	25	2.47E-03
12	3.13E-01	-0.542207361	12	1.04E+02
4	8.33E-01	-0.007095801	4	7.63E-01
5	6.63E-01	-0.072834388	5	1.09E+00
7	1.12E+00	0.059577879	7	6.67E-01
3	6.63E-01	-0.04649074	3	8.04E-01
2	5.67E-01	0	2	6.46E-01
8	5.41E+02	-0.455048577	8	1.44E+01
8	1.55E+03	-0.16695219	8	2.64E+00
3	6.43E-01	-0.024898818	3	7.50E-01
2	5.69E-01	-0.003613474	2	6.52E-01
1	5.92E-01	-0.047292443	1	6.65E-01
11	1.50E+06	-0.902842832	11	1.09E+03
31	3.17E+00	-0.244223982	31	4.40E+02
8	1.57E+00	-0.425661445	8	1.21E+01
6	9.43E-01	-0.437826426	6	7.05E+00
2	1.36E+00	-0.604748606	2	3.20E+00
2	6.19E-01	0.112892453	2	4.79E-01
5	3.62E+01	-0.270600616	5	2.54E+00
5	2.26E+00	-0.3415078	5	3.43E+00
12	2.97E+00	-0.211689669	12	7.20E+00
14	1.89E-02	-0.05174703	14	2.41E+00
2	4.89E-01	-0.141591353	2	9.40E-01
6	3.64E+00	-0.4340098	6	6.92E+00
7	1.20E+02	0.344651262	7	1.45E-01
4	2.10E+00	-0.407699965	4	3.41E+00
4	6.24E-01	-0.00039783	4	7.44E-01
8	1.93E+00	-0.139512579	8	2.24E+00
4	9.05E-01	-0.05383421	4	9.09E-01
8	4.31E+01	-0.074704037	8	1.53E+00

3	3.79E+00	-0.214152935	3	1.37E+00
9	1.74E+01	-0.254686678	9	5.45E+00
3	1.19E+00	-0.386575088	3	2.38E+00
6	2.02E+00	0.318889266	6	1.84E-01
2	4.46E-01	-0.249497214	2	1.25E+00
9	9.21E+01	-0.468283346	9	2.16E+01
18	8.62E-02	0.184414552	18	2.46E-01
4	5.69E-01	-0.118948401	4	1.16E+00
4	6.26E-01	-0.001173359	4	7.46E-01
6	9.90E+00	1	6	5.67E-03
2	5.83E-01	0.146912645	2	4.38E-01
5	1.96E+00	0.037481451	5	6.79E-01
4	7.76E-01	-0.05180429	4	9.02E-01
9	8.26E-01	-0.166925177	9	3.10E+00
5	8.60E+00	0.17693088	5	3.74E-01
4	9.52E-01	0.055069545	4	6.05E-01
5	1.09E+00	0.13826863	5	4.41E-01
4	7.40E-01	0.399301957	4	1.67E-01
23	1.95E+03	-0.161314803	23	2.72E+01
21	8.36E+00	0.406291594	21	1.27E-02
20	8.24E-01	0.042622449	20	1.35E+00
11	9.37E-01	-0.039075085	11	1.63E+00
14	1.19E+01	-0.135453839	14	5.19E+00
14	8.52E-01	-0.116960427	14	4.38E+00
4	6.39E-01	0.014719689	4	7.03E-01
14	1.10E+00	0.036703372	14	1.07E+00
31	3.85E-02	0.122282167	31	5.24E-01
1	5.36E-01	0	1	6.02E-01
14	9.02E-01	0.121028512	14	4.96E-01
41	1.17E+01	0.292722216	41	9.45E-03
8	7.45E-01	0.036249007	8	7.95E-01
9	4.93E+00	0.475007161	9	4.95E-02
14	5.82E+01	0.187177269	14	2.70E-01
25	2.53E-03	0.904884185	25	3.72E-06
5	3.92E+00	-0.047798532	5	9.78E-01
11	2.68E-01	-0.176826167	11	4.60E+00
5	2.66E-01	-0.063186035	5	1.04E+00
5	5.66E-01	-0.203362146	5	1.90E+00
7	1.63E+00	-0.029479056	7	1.07E+00
9	2.31E+03	-0.296537311	9	7.14E+00
4	9.01E-01	-0.064563243	4	9.46E-01
17	4.54E+00	0.063639518	17	9.33E-01
6	1.07E+00	0.083933057	6	5.71E-01
28	2.46E+00	0.039945941	28	2.06E+00
7	6.45E+01	-0.625626556	7	2.62E+01
12	1.44E+03	3	12	4.12E-11
20	3.07E+04	0.951095397	20	1.71E-05

17	8.37E+02	-0.598389213	17	1.17E+03
6	1.58E-01	1	6	7.66E-04
14	6.38E+00	-0.222731046	14	1.15E+01
24	2.74E+03	-0.197446336	24	5.39E+01
14	3.88E+02	2	14	1.85E-10
15	9.84E+01	0.236919141	15	1.62E-01
10	6.42E-01	0.079573481	10	6.50E-01
49	1.68E+04	-0.306040223	49	9.62E+04
8	5.69E-01	-0.062506743	8	1.42E+00
5	2.83E+01	-0.328838165	5	3.25E+00
25	2.96E+01	0.100940432	25	7.07E-01
3	8.77E-01	1	3	1.88E-02
29	7.65E-04	-0.558349535	29	6.70E+04
7	1.43E+00	0.116872118	7	4.90E-01
2	5.68E-01	-0.03631832	2	7.11E-01
21	9.18E-01	0.290420721	21	5.71E-02
6	8.09E+00	-0.855261699	6	5.27E+01
9	2.10E+01	0.575016818	9	2.60E-02
42	1.38E+05	1	42	1.55E-10
25	6.89E-02	-0.108267828	25	1.67E+01
3	2.21E+00	-0.002705767	3	6.99E-01
7	1.62E-01	-0.246919622	7	3.45E+00
66	1.83E-04	-0.278923135	66	1.94E+06
22	1.00E-07	-0.465728466	22	1.41E+03
17	3.69E-02	-0.092888801	17	5.04E+00
35	1.22E+02	0.444110308	35	7.17E-04
2	6.50E-02	0.491322374	2	1.76E-01
55	8.71E-07	0.514976682	55	2.56E-06
8	8.78E+01	-0.790380905	8	1.04E+02
12	1.56E+01	0.13447786	12	4.40E-01
9	3.15E+01	-0.623403215	9	5.87E+01
1	7.14E-01	-0.057127929	1	6.79E-01
1	5.36E-01	0.447801651	1	2.34E-01
2	5.64E-01	-0.235514161	2	1.21E+00
2	6.34E-01	-0.112304494	2	8.70E-01
2	2.54E+00	-0.506764372	2	2.47E+00
2	1.65E+00	-0.002222229	2	6.50E-01
7	8.41E-01	-0.039540566	7	1.13E+00
5	8.87E-01	0.20908215	5	3.26E-01
3	8.64E-01	0.567537238	3	1.13E-01
12	2.54E+04	0.204036827	12	2.51E-01
5	8.31E+01	-0.862996445	5	3.19E+01
7	2.63E-01	-0.115807167	7	1.71E+00
10	1.12E-02	0.83881527	10	3.23E-03
15	7.81E-02	0.223767874	15	1.84E-01
8	4.02E-01	-1	8	3.57E+03
10	1.05E+00	-0.107052066	10	2.39E+00

3	1.40E-01	-0.124279602	3	1.03E+00
3	5.55E-01	-0.005374584	3	7.05E-01
4	3.46E-01	0.249654817	4	2.93E-01
4	1.64E+00	-0.360072401	4	2.85E+00
11	3.65E+05	-1	11	3.44E+03
7	6.62E+01	-1	7	5.77E+02
6	5.78E+01	-0.457539051	6	7.75E+00
5	1.63E+00	-0.15944742	5	1.58E+00
10	4.47E+03	0.349078388	10	9.89E-02
4	6.24E-01	0.023421338	4	6.81E-01
7	2.22E+00	0.191135658	7	3.29E-01
10	1.49E+01	0.135463213	10	4.40E-01
10	4.92E+00	0.093417609	10	5.90E-01
9	4.91E+01	-0.698441896	9	9.52E+01
5	6.57E-01	-0.228456174	5	2.12E+00
27	4.82E+00	-0.386071222	27	1.95E+03
2	3.06E+00	-0.809273442	2	5.51E+00
2	1.49E+00	-0.080842741	2	8.00E-01
20	1.36E+05	-0.282252047	20	7.59E+01
4	3.75E+00	-0.775290467	4	1.34E+01
4	8.29E-01	-0.120961499	4	1.17E+00
10	1.05E+00	-0.609119778	10	7.99E+01
4	6.70E-01	0.023311526	4	6.81E-01
7	2.63E+01	-0.04002922	7	1.14E+00
5	3.19E+00	0.261278826	5	2.61E-01
11	8.79E+01	-0.869311905	11	8.45E+02
6	5.32E-01	0.365992163	6	1.47E-01
6	1.75E+00	-0.740991799	6	3.04E+01
8	2.31E+03	-0.012023988	8	1.06E+00
1	6.45E-01	-0.018508779	1	6.26E-01
12	1.22E+01	-0.082886308	12	2.55E+00
6	8.21E-01	-0.085466647	6	1.29E+00
5	7.85E+01	-0.367186682	5	3.83E+00
4	3.91E-01	0.511718957	4	1.10E-01
10	1.02E+00	-0.088306917	10	2.10E+00
11	7.31E+00	-0.139858678	11	3.48E+00
6	1.41E+00	-0.009184288	6	8.94E-01
6	7.04E-01	-0.014739354	6	9.18E-01
3	9.22E-01	0.02536312	3	6.39E-01
3	6.18E-01	0	3	6.93E-01
6	1.74E+00	-0.184850039	6	2.08E+00
3	5.96E-01	0	3	6.93E-01
6	6.91E-01	-0.276129184	6	3.24E+00
1	5.36E-01	-0.007611019	1	6.12E-01
5	6.57E-01	0	5	7.97E-01
4	2.33E+00	-0.162878904	4	1.37E+00
27	1.34E+20	-1	27	1.53E+08

22	1.12E+10	-0.891331969	22	4.40E+05
9	1.55E+00	-0.197518643	9	3.77E+00
5	8.75E-01	-0.215902759	5	2.01E+00
3	6.01E-01	-0.015321725	3	7.27E-01
11	9.75E+01	-0.386461267	11	2.23E+01
10	6.26E+00	0.138983928	10	4.29E-01
8	2.67E+00	-0.118129997	8	1.98E+00
4	6.24E-01	-0.086661283	4	1.03E+00
7	1.49E+01	0.343966995	7	1.45E-01
2	5.64E-01	0	2	6.46E-01
6	2.53E+00	-0.480627375	6	8.66E+00
15	4.20E+01	-0.158073976	15	7.46E+00
4	2.69E+01	0.114701648	4	4.84E-01
5	1.18E-01	-0.273782955	5	2.57E+00
3	1.35E+00	-0.449241945	3	2.91E+00
4	7.54E-01	-0.436506971	4	3.79E+00
11	1.18E+01	0.841188863	11	2.16E-03
13	9.10E+00	-0.047695195	13	2.11E+00
23	1.62E+02	0.27321206	23	6.11E-02
5	7.75E-03	-0.38134633	5	4.07E+00
3	7.24E-01	-0.199436937	3	1.31E+00
2	6.22E-01	-0.183576396	2	1.05E+00
18	2.33E+01	-0.092242647	18	5.65E+00
9	4.64E+00	-0.300606664	9	7.33E+00
5	8.83E-01	-0.678633596	5	1.45E+01
7	5.69E-01	-0.034637547	7	1.10E+00
5	1.61E+00	-0.476385469	5	6.11E+00
5	9.58E+00	-0.13176703	5	1.40E+00
11	6.49E+01	-0.541421022	11	7.16E+01
5	5.46E-01	-0.485810573	5	6.36E+00
9	9.31E+00	0.169103041	9	3.55E-01
13	3.54E-01	-0.065460943	13	2.46E+00
9	6.81E-03	-0.058571661	9	1.54E+00
14	2.25E-01	-0.138645538	14	5.34E+00
8	1.80E+00	-0.465657665	8	1.54E+01
6	5.03E-01	0.959131008	6	8.42E-03
9	2.41E-01	-0.172374567	9	3.21E+00
10	1.48E-01	-0.069676831	10	1.84E+00
5	1.85E-02	0.72059273	5	3.66E-02
4	7.92E-03	0.096178608	4	5.19E-01
16	6.11E-07	0.780116597	16	5.86E-04
14	8.66E-01	0.041936038	14	1.02E+00
32	2.31E+03	-0.013482795	32	6.86E+00
18	5.30E+10	-0.25011932	18	3.38E+01
10	2.12E+07	-0.809968988	10	3.25E+02
5	8.94E+01	-0.12827139	5	1.38E+00
8	1.77E+00	-0.566631737	8	2.79E+01

6	6.54E+00	-0.642426197	6	1.89E+01
4	1.01E+00	-0.205545821	4	1.60E+00
7	1.16E+00	0.040972346	7	7.37E-01
11	2.10E+00	-0.183439836	11	4.84E+00
16	1.49E-02	-0.118656911	16	5.82E+00
2	5.64E-01	0	2	6.46E-01
10	1.81E+02	-0.649993468	10	1.06E+02
6	1.00E+00	-0.379424784	6	5.32E+00
13	2.51E+01	-0.394914808	13	4.20E+01
8	1.28E+03	-0.767689309	8	9.14E+01
10	1.10E+01	0.510321155	10	3.21E-02
17	8.95E+01	2	17	1.14E-08
14	2.80E+04	-0.194844995	14	8.93E+00
15	1.07E+03	0.063095835	15	8.73E-01
8	6.91E-01	-0.340401343	8	7.34E+00
6	4.06E+01	-0.412303371	6	6.23E+00
2	9.44E-01	-0.009985333	2	6.63E-01
2	2.19E+00	0.036196702	2	5.87E-01
2	5.64E-01	0	2	6.46E-01
9	2.71E-02	-0.013309458	9	1.15E+00
5	1.38E-01	-0.024138172	5	8.84E-01
6	1.90E-01	-0.17617621	6	2.00E+00
3	1.36E+00	0.331767204	3	2.40E-01
6	1.42E+02	-0.552561471	6	1.23E+01
4	1.08E+00	0	4	7.43E-01
10	1.57E+00	-0.104435633	10	2.35E+00
7	4.32E+04	-0.823474364	7	7.58E+01
5	2.48E+01	-1	5	3.60E+02
11	6.72E+06	-0.370016041	11	1.97E+01
12	5.54E-01	-0.131934511	12	3.78E+00
15	6.81E-01	0.369886838	15	4.46E-02
3	1.83E-01	-0.093806075	3	9.35E-01
19	3.35E+04	-0.755108185	19	1.66E+04
6	9.80E-01	-0.440832504	6	7.15E+00
10	1.04E+05	-1	10	5.87E+03
7	3.79E+00	-0.193389277	7	2.59E+00
5	1.84E+01	-0.589297795	5	9.91E+00
6	1.38E+02	-0.605119629	6	1.58E+01
3	1.84E+01	-0.121913895	3	1.02E+00
9	2.05E+00	-0.272546579	9	6.12E+00
7	1.64E+00	-0.108397224	7	1.64E+00
10	5.80E+00	-0.611678165	10	8.13E+01
15	5.48E+01	-0.25979606	15	2.00E+01
7	4.99E-01	0.050820107	7	6.99E-01
2	7.56E+00	1	2	1.85E-02
2	9.74E-01	0.202815123	2	3.77E-01
7	7.20E-01	0.105393804	7	5.22E-01

10	5.30E+00	1	10	4.20E-05
21	1.71E-01	-0.047652599	21	4.55E+00
1	8.25E-01	-0.026464731	1	6.36E-01
3	3.53E-01	-0.172298491	3	1.20E+00
4	4.63E+01	-0.506808666	4	4.93E+00
2	6.57E-01	-0.033767929	2	7.06E-01
5	7.79E+00	-0.338065441	5	3.38E+00
2	6.41E-01	-0.034946378	2	7.08E-01
2	5.64E-01	0	2	6.46E-01
1	5.80E-01	-0.014495455	1	6.21E-01
2	1.18E+00	-0.110825673	2	8.66E-01
5	2.09E+00	0	5	7.97E-01
8	5.70E-01	-0.21708986	8	3.55E+00
5	2.11E+00	0.138967907	5	4.40E-01
4	2.83E+00	0.23273838	4	3.12E-01
8	1.31E+01	-0.3892031	8	9.79E+00
11	2.02E+00	-0.006089684	11	1.27E+00
1	5.62E-01	-0.012274843	1	6.18E-01
11	1.79E+00	-0.037590304	11	1.61E+00
6	8.99E+01	-0.377739581	6	5.28E+00
6	2.70E+00	-0.356772912	6	4.77E+00
13	2.00E-01	0.2046584	13	2.40E-01
6	7.04E-01	0.051213819	6	6.68E-01
15	6.16E+00	0.071388053	15	8.06E-01
6	6.99E-01	-0.140842298	6	1.69E+00
10	1.30E+01	-0.662574198	10	1.16E+02
5	7.56E-01	-0.009782305	5	8.31E-01
3	3.51E-01	-0.182169629	3	1.24E+00
11	8.14E+03	-0.142427093	11	3.55E+00
11	3.35E+01	0.086450863	11	6.34E-01
8	3.88E+00	-0.150207851	8	2.39E+00
5	1.07E+02	-0.082617798	5	1.14E+00
4	2.45E+00	-0.187599838	4	1.50E+00
5	7.89E+00	-0.385506964	5	4.14E+00
8	1.69E+02	-0.052295551	8	1.34E+00
8	1.81E-01	0.510699718	8	4.83E-02
8	1.32E+00	0.299377794	8	1.68E-01
13	2.29E-02	-0.028017729	13	1.78E+00
11	1.73E+01	0.131283447	11	4.52E-01
7	1.16E-01	-0.494004838	7	1.30E+01
6	1.82E+00	0.064516614	6	6.27E-01
5	1.28E+00	-0.247227482	5	2.29E+00
5	1.62E+00	-0.358573323	5	3.69E+00
6	4.78E-01	0.390098691	6	1.31E-01
2	4.06E-02	-0.030261982	2	7.00E-01
4	7.26E-01	0.053109236	4	6.10E-01
8	1.58E+00	-0.315085846	8	6.32E+00

3	8.59E-01	0	3	6.93E-01
7	7.02E+00	0.296496996	7	1.87E-01
2	5.52E-01	0	2	6.46E-01
5	1.81E-01	0	5	7.97E-01
1	5.36E-01	0	1	6.02E-01
7	2.28E-01	-0.174753188	7	2.34E+00
10	2.14E+02	-0.326728747	10	1.11E+01
9	2.92E+03	0.216911067	9	2.61E-01
22	1.08E+07	0.299964411	22	4.60E-02
14	3.71E+08	0.317318755	14	8.22E-02
9	5.99E+02	-0.954283665	9	4.95E+02
8	1.39E+02	-0.837690938	8	1.38E+02
9	1.57E+01	-0.274109232	9	6.18E+00
6	6.91E-01	0	6	8.55E-01
1	5.36E-01	-0.017696984	1	6.25E-01
10	5.34E-04	-0.284585891	10	8.27E+00
3	1.34E-04	1	3	1.19E-02
1	1.47E-01	2	1	1.10E-02
4	6.24E-01	0.125504807	4	4.65E-01
13	9.87E-01	-0.029393148	13	1.80E+00
3	5.93E-01	-0.013205478	3	7.23E-01
6	9.66E-01	-0.085235472	6	1.29E+00
3	5.99E-01	-0.011671206	3	7.19E-01
5	6.57E-01	0	5	7.97E-01
9	8.05E-01	0	9	1.06E+00
10	8.47E-01	0	10	1.13E+00
8	7.65E-01	0	8	9.84E-01
22	1.56E+00	0	22	2.63E+00
18	1.27E+00	0	18	1.99E+00
15	1.09E+00	0	15	1.61E+00
26	1.91E+00	0	26	3.49E+00
8	7.65E-01	0	8	9.84E-01
9	8.05E-01	0	9	1.06E+00
4	6.24E-01	0	4	7.43E-01
3	5.93E-01	0	3	6.93E-01
5	6.57E-01	0	5	7.97E-01
4	6.24E-01	0	4	7.43E-01
8	7.65E-01	0	8	9.84E-01
5	6.57E-01	0	5	7.97E-01
6	6.91E-01	0	6	8.55E-01
6	6.91E-01	0	6	8.55E-01
5	6.57E-01	0	5	7.97E-01
7	7.27E-01	0	7	9.18E-01
6	6.91E-01	0	6	8.55E-01
4	6.24E-01	0	4	7.43E-01
5	6.57E-01	0	5	7.97E-01
8	7.65E-01	0	8	9.84E-01

5	6.57E-01	0	5	7.97E-01
9	8.05E-01	0	9	1.06E+00
12	9.38E-01	0	12	1.30E+00
8	7.65E-01	0	8	9.84E-01
22	1.56E+00	0	22	2.63E+00
18	1.27E+00	0	18	1.99E+00
15	1.09E+00	0	15	1.61E+00
26	1.91E+00	0	26	3.49E+00
8	7.65E-01	0	8	9.84E-01
9	8.05E-01	0	9	1.06E+00
4	6.24E-01	0	4	7.43E-01
3	5.93E-01	0	3	6.93E-01
5	6.57E-01	0	5	7.97E-01
4	6.24E-01	0	4	7.43E-01
8	7.65E-01	0	8	9.84E-01
5	6.57E-01	0	5	7.97E-01
6	6.91E-01	0	6	8.55E-01
6	6.91E-01	0	6	8.55E-01
5	6.57E-01	0	5	7.97E-01
7	7.27E-01	0	7	9.18E-01
6	6.91E-01	0	6	8.55E-01
4	6.24E-01	0	4	7.43E-01
5	6.57E-01	0	5	7.97E-01
10	2.94E+00	0.65476687	10	1.17E-02
9	6.87E-01	0.986607674	9	1.83E-03
11	4.14E+02	0.526952506	11	2.30E-02
9	8.67E-01	-0.886377102	9	3.19E+02
1	5.37E-01	-0.04354413	1	6.60E-01
3	5.93E-01	0	3	6.93E-01
2	5.64E-01	0	2	6.46E-01
7	1.69E+00	0.168741878	7	3.71E-01
8	2.88E+00	-0.5668297	8	2.79E+01
12	3.30E+03	-0.530774112	12	9.45E+01
5	1.84E+01	0.287260523	5	2.33E-01
24	3.44E+00	-0.23021295	24	8.69E+01
5	1.49E+00	0.088047097	5	5.47E-01
6	9.53E+00	0.91306044	6	1.05E-02
10	9.73E-01	-0.126327313	10	2.74E+00
17	1.59E+02	-0.244803192	17	2.59E+01
18	1.27E+00	0	18	1.99E+00
5	6.31E+03	-0.153840076	5	1.54E+00
19	1.69E+01	0.080000331	19	8.25E-01
22	1.27E+01	0.044396204	22	1.45E+00
27	4.96E+01	0.004878354	27	3.46E+00
5	3.43E+00	0.328269485	5	1.96E-01
15	1.10E+02	0.898672369	15	2.64E-04
50	4.95E-01	0.483541212	50	1.79E-05

3	1.56E-01	0.556390479	3	1.17E-01
15	1.24E+00	0.325378759	15	6.86E-02
10	1.86E-01	-0.01659061	10	1.27E+00
28	4.47E+00	0.176668368	28	2.08E-01
15	7.71E+01	0.240853681	15	1.56E-01
11	1.22E+06	0.516151571	11	2.50E-02
7	1.81E+01	0.232163515	7	2.64E-01
6	1.16E+01	-0.665027004	6	2.11E+01
4	7.37E-01	0.033451501	4	6.56E-01
3	6.15E-01	-0.046098211	3	8.03E-01
9	1.96E+00	-0.428427086	9	1.67E+01
4	9.11E-01	0.171932976	4	3.91E-01
3	2.73E+00	0.806511886	3	5.28E-02
4	1.12E+00	-0.266993714	4	2.01E+00
4	6.79E-01	-0.073979992	4	9.80E-01
1	5.36E-01	-0.016770956	1	6.24E-01
10	1.13E+01	-0.416038772	10	2.07E+01
5	2.38E+00	0.140968974	5	4.36E-01
6	3.59E+00	-0.321553738	6	4.03E+00
4	1.19E+01	-0.326666205	4	2.52E+00
5	9.99E-01	-0.288170537	5	2.73E+00
10	7.01E+02	-0.595060974	10	7.24E+01
9	1.18E+01	0.472194707	9	5.04E-02
12	5.46E+03	-0.038521269	12	1.78E+00
2	5.69E-01	-0.290265665	2	1.39E+00
5	2.42E-01	0.009175086	5	7.67E-01
2	5.64E-01	0	2	6.46E-01
2	8.95E-01	-0.801725939	2	5.40E+00
131	5.19E+18	-1	131	3.88E+39
4	6.89E-01	-1	4	2.01E+02
4	1.58E+00	2	4	2.09E-03
2	1.17E+00	1	2	4.36E-02
4	7.44E-01	0.039444425	4	6.41E-01
4	6.84E-01	0.275998116	4	2.65E-01
5	6.62E-01	-0.242906401	5	2.25E+00
7	1.62E+00	-0.036085752	7	1.11E+00
6	4.45E-01	-0.084531905	6	1.29E+00
8	4.02E+01	-0.484198321	8	1.72E+01
6	1.62E+00	-0.485567678	6	8.87E+00
5	2.82E+00	-0.065942139	5	1.06E+00
5	1.36E+00	-0.049518735	5	9.85E-01
12	1.57E+01	-0.414002981	12	3.68E+01
7	5.61E+03	-0.912075067	7	1.22E+02
12	1.22E+03	-0.471575348	12	5.86E+01
5	1.59E+02	-0.837044438	5	2.86E+01
6	2.87E+00	-0.744893571	6	3.10E+01
7	3.91E+00	-0.494881929	7	1.30E+01

5	1.62E+00	-0.22291333	5	2.07E+00
5	2.99E+00	-0.009632524	5	8.31E-01
2	5.64E-01	-0.011732079	2	6.66E-01
10	4.85E+01	1	10	2.59E-04
11	2.63E+02	0.632257794	11	1.04E-02
4	6.95E-01	0.02615713	4	6.74E-01
15	1.87E+03	2	15	4.56E-10
4	7.12E-01	-0.05421585	4	9.10E-01
4	6.28E-01	-0.026550972	4	8.21E-01
1	5.50E-01	-0.008409848	1	6.13E-01
7	3.15E+01	-0.537867882	7	1.64E+01
9	3.28E+00	-0.544089266	9	3.52E+01
4	1.47E+00	-0.173346256	4	1.42E+00
8	8.01E-01	0.055287638	8	7.10E-01
13	2.23E+01	-0.279781373	13	1.56E+01
6	9.94E-01	-0.17082692	6	1.95E+00
3	7.74E-01	-0.207906054	3	1.35E+00
7	6.45E+00	-0.063907592	7	1.29E+00
13	1.15E+02	0.022567392	13	1.15E+00
4	3.01E+00	-0.61855267	4	7.48E+00
7	1.99E+00	-0.618032832	7	2.52E+01
3	4.07E-01	-0.103727637	3	9.65E-01
5	8.19E-01	0.400055028	5	1.44E-01
8	3.18E+00	0.175586656	8	3.49E-01
4	1.13E+00	-0.256557594	4	1.94E+00
2	5.75E-01	-0.010322569	2	6.64E-01
4	2.52E+00	-0.431120746	4	3.72E+00
2	5.94E-01	-0.351070618	2	1.64E+00
4	6.93E-01	-0.094767688	4	1.06E+00
10	1.96E+00	-0.28135375	10	8.09E+00
1	5.41E-01	0	1	6.02E-01
2	7.17E-01	0	2	6.46E-01
4	6.75E-01	0	4	7.43E-01
5	6.59E-01	0	5	7.97E-01
5	1.12E+00	0.013706872	5	7.52E-01
1	5.41E-01	-0.006803242	1	6.11E-01
3	6.11E-01	0	3	6.93E-01
7	9.26E-01	-0.026796648	7	1.06E+00
2	5.64E-01	0	2	6.46E-01
3	6.00E-01	-0.181761885	3	1.24E+00
3	1.07E+00	-0.297170423	3	1.79E+00
3	9.72E-01	-0.131708669	3	1.05E+00
3	4.01E-01	-0.421283481	3	2.66E+00
2	5.75E-01	0	2	6.46E-01
5	6.48E-01	0	5	7.97E-01
4	9.94E-01	0.153510849	4	4.19E-01
8	9.61E+00	-0.574680897	8	2.93E+01

5	8.35E-01	-0.109476491	5	1.27E+00
8	3.20E+00	0.155214901	8	3.94E-01
4	1.69E+00	0.048702246	4	6.20E-01
10	4.01E+00	0.091205134	10	5.99E-01
5	1.20E+00	-0.461820459	5	5.74E+00
9	2.01E-01	-0.028486519	9	1.27E+00
2	6.66E-01	-0.179960056	2	1.04E+00
2	5.91E-01	-0.186182381	2	1.06E+00
4	9.13E-01	-0.08453288	4	1.02E+00
6	8.64E-01	0	6	8.55E-01
4	7.89E-01	-0.046660419	4	8.85E-01
7	5.89E+00	-0.335303552	7	5.54E+00
7	6.73E+04	-0.716218768	7	4.26E+01
3	7.79E-01	-0.068215321	3	8.61E-01
7	4.20E+00	-0.019301344	7	1.02E+00
3	1.39E+00	0.186843919	3	3.82E-01
5	1.69E+00	0.251786719	5	2.72E-01
5	1.70E-01	0.081831194	5	5.62E-01
8	7.67E+00	0.388915489	8	9.92E-02
6	1.18E+00	-0.421475672	6	6.52E+00
3	2.37E+00	-0.224978761	3	1.42E+00
5	6.93E-01	0.032261719	5	6.95E-01
6	6.63E+00	0.3974038	6	1.26E-01
12	1.18E+01	-0.255618541	12	1.03E+01
12	3.24E+00	-0.214675325	12	7.37E+00
5	1.82E+00	0.365838261	5	1.67E-01
7	1.45E+01	-0.193062027	7	2.58E+00
1	7.34E-01	0	1	6.02E-01
5	8.33E-01	-0.187587521	5	1.78E+00
18	3.76E+00	-0.169413684	18	1.35E+01
8	2.26E+01	-0.074027784	8	1.52E+00
6	8.74E+00	-0.034476063	6	1.01E+00
2	1.75E+00	-0.143286333	2	9.44E-01
7	4.21E+01	-0.483588961	7	1.23E+01
5	6.21E-01	-0.154807146	5	1.55E+00
5	6.17E-01	-0.051171035	5	9.92E-01
5	6.57E-01	0	5	7.97E-01
2	6.06E-01	-0.018142313	2	6.78E-01
2	2.34E-01	-0.312403646	2	1.48E+00
2	1.31E+00	-0.554845307	2	2.81E+00
1	2.81E+00	-0.559676698	1	1.96E+00
2	2.74E+00	-0.119856492	2	8.87E-01
1	4.03E+00	-0.736801012	1	2.84E+00
4	1.53E+00	-0.167165437	4	1.39E+00
8	2.54E+02	-0.840917082	8	1.41E+02
12	4.39E+05	-1	12	5.65E+03
4	8.38E-01	0.020118234	4	6.89E-01

3	5.95E-01	-0.088057235	3	9.18E-01
2	5.64E-01	-0.071158508	2	7.80E-01
6	6.36E-01	0.36899576	6	1.45E-01
1	6.12E-01	0.01065272	1	5.89E-01
8	2.17E+01	-0.109192455	8	1.88E+00
27	3.87E+00	-0.112568392	27	2.32E+01
5	2.67E+00	-0.402616863	5	4.46E+00
2	6.25E-01	-0.328258543	2	1.54E+00
9	1.30E+02	-0.299222443	9	7.26E+00
2	3.03E-01	0.686579477	2	1.05E-01
14	5.97E+01	-0.425697608	14	7.39E+01
8	4.67E+04	-0.567111281	8	2.80E+01
4	1.20E+00	-0.044745969	4	8.78E-01
7	9.31E+00	0.255963853	7	2.33E-01
9	1.08E+04	0.340618298	9	1.18E-01
3	2.54E+00	0.035897674	3	6.18E-01
6	1.16E+02	-1	6	3.51E+02
1	5.69E-01	0	1	6.02E-01
1	5.69E-01	0	1	6.02E-01
4	9.95E-01	0.214077148	4	3.34E-01
10	6.96E+04	-0.507579681	10	3.93E+01
1	2.68E+00	-0.060355756	1	6.84E-01
3	1.45E+03	-0.581276045	3	4.43E+00
11	9.30E+09	-0.493711965	11	5.00E+01
1	5.54E+02	-0.438062659	1	1.51E+00
3	1.92E+03	-2	3	3.33E+02
10	1.23E+04	-0.738085043	10	1.97E+02
3	1.51E+02	-1	3	1.99E+01
2	1.49E+00	-0.084786168	2	8.08E-01
6	6.85E+01	-0.619412073	6	1.69E+01
5	2.96E+05	-1	5	2.59E+02
2	4.60E+01	-0.123686224	2	8.96E-01
6	5.02E+03	-0.998763661	6	1.05E+02
4	3.50E+02	0.13236105	4	4.53E-01
9	4.45E+01	-0.075101769	9	1.71E+00
4	1.42E-01	0.351446279	4	2.00E-01
12	2.15E+03	-0.128627177	12	3.68E+00
8	1.17E-02	-0.612653073	8	3.66E+01
5	3.42E+00	-0.636989938	5	1.21E+01
4	3.04E+01	-0.920485483	4	2.31E+01
2	1.22E+01	-0.572624458	2	2.94E+00
2	4.51E+03	-2	2	4.49E+01
11	1.24E+02	-0.298577187	11	1.15E+01
1	6.04E-01	-0.023548065	1	6.33E-01
16	1.04E+09	-0.923972266	16	2.22E+04
2	4.36E+02	-0.584061137	2	3.03E+00
13	3.09E+11	-0.825346552	13	1.71E+03

4	6.04E+03	-2	4	3.83E+02
7	7.15E+01	-0.086660269	7	1.46E+00
3	1.00E+02	-0.013869324	3	7.24E-01
5	8.80E+01	-0.261751483	5	2.44E+00
5	9.90E+04	-1	5	1.21E+02
4	2.80E-01	0.022466373	4	6.83E-01
12	4.10E+08	-0.816624876	12	9.50E+02
15	2.24E+02	-0.200207395	15	1.12E+01
1	1.24E+00	0	1	6.02E-01
5	3.81E+02	-0.063274599	5	1.05E+00
4	2.40E+00	-0.20953202	4	1.62E+00
4	2.77E+01	-0.069523971	4	9.63E-01
3	1.48E+03	-1	3	2.38E+01
3	2.79E+03	-0.892595218	3	1.20E+01
3	4.64E+02	-0.971507357	3	1.54E+01
3	8.34E+00	-0.803294905	3	8.99E+00
13	4.14E+02	-0.53561909	13	1.41E+02
12	8.41E+01	-0.259755099	12	1.06E+01
18	2.92E+04	-0.379656386	18	1.46E+02
8	5.49E+01	-0.328233075	8	6.83E+00
7	6.11E+01	-0.958593582	7	1.56E+02
6	2.99E-01	-0.048909685	6	1.08E+00
2	5.27E-01	-0.393218375	2	1.83E+00
6	3.12E+00	-0.466182623	6	8.08E+00
19	3.82E-02	-0.546305492	19	1.39E+03
7	1.08E+01	-0.479408309	7	1.20E+01
7	3.63E+00	-0.24916431	7	3.49E+00
7	9.20E+01	-0.232690646	7	3.19E+00
2	6.43E-01	0.077621148	2	5.26E-01
9	1.47E+00	-0.086519067	9	1.84E+00
2	5.95E-01	0.012703713	2	6.24E-01
5	6.57E-01	0.148379171	5	4.23E-01
6	7.20E-01	0.298835646	6	2.03E-01
4	1.74E+00	0.188204438	4	3.68E-01
3	6.76E-01	0.486583975	3	1.47E-01
5	1.85E+00	-0.041617742	5	9.53E-01
7	1.06E+00	-0.074993255	7	1.37E+00
10	1.84E+00	-0.200236823	10	4.59E+00
5	1.15E+01	2	5	1.07E-03
11	3.85E+00	0.340808252	11	9.34E-02
3	1.05E+00	0.279215324	3	2.84E-01
7	1.86E+02	0.012568485	7	8.58E-01
7	3.23E+01	-0.46462559	7	1.11E+01
10	1.06E+00	0.015225854	10	1.02E+00
4	7.76E-01	-0.630035884	4	7.81E+00
2	5.71E-01	-0.013026702	2	6.68E-01
8	2.51E+00	-0.261938571	8	4.62E+00

4	8.63E-01	0.074758805	4	5.62E-01
8	8.00E+00	-0.189534723	8	3.01E+00
7	2.63E+00	-0.43644452	7	9.52E+00
4	6.46E-01	-0.019401156	4	7.99E-01
6	3.23E+00	-0.072498606	6	1.21E+00
6	1.10E+00	-0.2361189	6	2.67E+00
7	3.38E+00	-0.448081518	7	1.01E+01
3	6.05E-01	-0.003744788	3	7.01E-01
3	8.76E-01	-0.029191854	3	7.60E-01
5	1.28E+00	0.004042249	5	7.84E-01
2	5.61E-01	-0.015553987	2	6.73E-01
3	1.42E+00	-0.101264683	3	9.57E-01
3	3.41E+00	-0.020813129	3	7.40E-01
4	7.00E+01	-0.216752007	4	1.67E+00
4	5.31E-01	-0.171432338	4	1.41E+00
1	5.41E-01	0	1	6.02E-01
1	5.36E-01	0	1	6.02E-01
4	4.33E+00	-0.58757534	4	6.66E+00
4	1.61E+00	-0.470894345	4	4.31E+00
44	4.00E-06	1	44	5.59E-12
4	3.45E-03	-0.969004799	4	2.77E+01
9	5.03E-05	0.71367876	9	1.06E-02
9	2.57E-01	-0.40496311	9	1.44E+01
10	4.74E-01	-0.305016073	10	9.54E+00
8	9.44E+00	-0.319218577	8	6.48E+00
5	6.65E-01	0.003231303	5	7.86E-01
5	8.13E-01	0.167025599	5	3.90E-01
9	1.91E+00	-0.048666357	9	1.45E+00
15	7.82E+03	-0.38227477	15	6.56E+01
4	9.85E-01	-0.144651402	4	1.28E+00
9	2.25E+00	0.00450804	9	1.03E+00
3	5.93E-01	-0.011697778	3	7.19E-01
2	1.03E+00	0.509412279	2	1.67E-01
10	1.30E+03	0.223831902	10	2.37E-01
7	2.58E+02	-0.490574847	7	1.27E+01
10	2.05E+01	-0.381702979	10	1.63E+01
4	7.95E-01	-0.010630166	4	7.73E-01
14	2.72E+00	-0.286405465	14	2.07E+01
13	2.28E+02	-0.93679798	13	4.47E+03
7	2.38E+00	0.451376777	7	8.17E-02
5	9.00E-01	-0.238714162	5	2.21E+00
11	3.35E+00	0.029584862	11	9.73E-01
18	6.45E+03	0.508957683	18	6.24E-03
5	2.21E+01	0.745316765	5	3.29E-02
52	6.32E+03	-0.047131492	52	8.81E+01
31	5.32E-01	0.340545623	31	9.51E-03
9	3.20E-03	-0.022876804	9	1.22E+00

4	6.32E-01	0	4	7.43E-01
31	2.16E+00	-0.16517555	31	1.03E+02
17	7.22E-01	0.098365754	17	6.42E-01
31	2.99E+00	0.167871738	31	2.27E-01
10	1.66E+00	-0.857647608	10	4.53E+02
32	9.03E+06	-0.434903824	32	1.99E+04
3	3.71E-01	-0.147015154	3	1.11E+00
8	2.16E+02	-0.484682511	8	1.72E+01
8	1.35E+04	0.092317815	8	5.71E-01
15	7.56E+00	0.499737012	15	1.27E-02
11	1.33E+01	1	11	2.94E-04
23	3.12E+03	0.159444301	23	3.01E-01
20	5.85E+06	-0.565151065	20	2.54E+03
10	3.13E+01	-0.580257047	10	6.53E+01
11	2.35E+01	0.446321105	11	4.22E-02
9	2.28E+03	-0.918686503	9	3.93E+02
3	1.14E+00	0.105368815	3	4.95E-01
7	2.13E+00	-0.183086115	7	2.45E+00
4	2.59E+00	-0.627068247	4	7.72E+00
6	2.65E-01	-1	6	2.38E+02
30	6.96E-05	-0.079328485	30	1.90E+01
6	2.89E-07	-0.294289476	6	3.53E+00
10	2.65E+01	-0.26972747	10	7.46E+00
10	1.85E+02	-0.238331461	10	5.99E+00
5	1.34E+00	-0.592943748	5	1.01E+01
3	4.37E-01	-0.056689197	3	8.30E-01
4	4.67E+00	-0.351426829	4	2.76E+00
3	9.25E-01	0.339709737	3	2.34E-01
5	6.15E+00	-0.65227368	5	1.30E+01
8	9.21E-01	-0.186457204	8	2.96E+00
8	2.60E+00	-0.324762879	8	6.69E+00
12	4.79E+00	-0.050584797	12	1.96E+00
5	1.25E+00	-0.28305264	5	2.67E+00
6	1.29E+02	0.288428232	6	2.13E-01
8	2.13E+03	-0.754297709	8	8.45E+01
5	1.30E+00	-0.191665795	5	1.81E+00
8	1.04E+00	0.024280112	8	8.53E-01
5	3.51E-01	-0.513980898	5	7.18E+00
4	2.06E-01	-0.334678449	4	2.59E+00
7	4.27E-02	-0.875411327	7	1.00E+02
7	2.04E-01	-0.581566256	7	2.07E+01
7	9.03E+01	0.065666856	7	6.45E-01
4	7.57E-01	-0.006056348	4	7.60E-01
7	2.77E-01	-0.144258541	7	1.99E+00
6	5.69E+00	-0.503013601	6	9.65E+00
3	5.93E-01	0	3	6.93E-01
5	8.70E+00	-0.467348766	5	5.88E+00

10	1.51E+02	0.481211068	10	3.93E-02
7	1.44E+00	0.05573447	7	6.81E-01
9	7.56E+00	-0.112283896	9	2.18E+00
8	1.55E+00	0.761503691	8	1.10E-02
9	1.41E+00	-0.297016013	9	7.16E+00
7	6.97E+00	0.04936331	7	7.04E-01
11	5.34E+01	-0.354268961	11	1.75E+01
10	2.88E+01	-0.138366797	10	2.98E+00
7	1.25E+00	-0.381056806	7	7.07E+00
9	9.71E-01	-0.405619183	9	1.44E+01
8	4.62E+00	-0.146990294	8	2.34E+00
13	6.59E+01	-0.243774939	13	1.14E+01
2	5.71E-01	-0.017768896	2	6.77E-01
2	5.72E-01	0.019547657	2	6.13E-01
2	9.41E-01	0.575984084	2	1.40E-01
2	4.53E+02	-1	2	1.31E+01
6	4.11E+00	-0.32543308	6	4.10E+00
2	4.06E+00	-0.736801012	2	4.55E+00
1	1.48E+00	-1	1	5.23E+00
3	3.98E-01	0.633263316	3	9.18E-02
10	1.10E+00	-0.140083554	10	3.01E+00
5	1.90E+00	0.541723974	5	7.87E-02
3	5.88E-01	-0.001907494	3	6.97E-01
3	6.01E-01	-0.102504361	3	9.61E-01
3	1.02E+00	-0.232331915	3	1.45E+00
6	3.50E+00	-0.100414539	6	1.39E+00
3	5.67E-01	5.12E-05	3	6.93E-01
4	7.88E-01	0	4	7.43E-01
4	1.49E+00	-0.036231755	4	8.51E-01
7	6.27E+01	0.190594955	7	3.30E-01
5	4.24E-01	0.03967192	5	6.73E-01
8	1.88E+00	0.369448165	8	1.11E-01
6	3.60E+00	-0.414539127	6	6.30E+00
8	1.72E+00	0.748046967	8	1.19E-02
7	6.38E+00	0.15900051	7	3.91E-01
8	3.43E+02	-0.396481785	8	1.02E+01
7	8.76E+00	-0.661578273	7	3.18E+01
7	2.21E+02	0.324103201	7	1.62E-01
3	9.65E-01	-0.180514295	3	1.23E+00
2	5.64E-01	-0.016062951	2	6.74E-01
12	3.51E+01	-0.701178448	12	3.74E+02
3	5.93E-01	-0.059425874	3	8.37E-01
4	5.67E-01	-0.108606811	4	1.11E+00
18	5.57E+01	0.1209305	18	5.05E-01
8	7.83E+00	-0.518541209	8	2.10E+01
9	3.93E+04	-0.70102972	9	9.68E+01
3	1.17E+01	-0.196531027	3	1.30E+00

3	6.48E-01	0	3	6.93E-01
4	6.71E-01	0.000112978	4	7.43E-01
6	5.08E+00	-0.349013881	6	4.60E+00
7	1.45E+00	-0.346033036	7	5.86E+00
6	2.05E+00	0.08316001	6	5.73E-01
4	1.28E+00	0.134258896	4	4.50E-01
3	1.06E+00	-0.241201233	3	1.50E+00
3	5.93E-01	-0.004661664	3	7.03E-01
3	9.39E+01	-0.519352009	3	3.63E+00
5	1.80E+00	0.029057179	5	7.04E-01
10	1.26E+00	-0.017682459	10	1.28E+00
22	2.34E+00	0.033865226	22	1.67E+00
10	1.91E+01	0.036094108	10	8.80E-01
20	9.29E+01	-0.199429205	20	2.72E+01
3	7.33E-01	-0.14794741	3	1.11E+00
4	9.92E-02	-0.425760423	4	3.64E+00
8	4.56E+01	0.334679572	8	1.37E-01
12	1.54E+00	-0.122059558	12	3.49E+00
13	1.29E+00	-0.022681228	13	1.70E+00
23	4.39E+03	0.101080833	23	6.84E-01
40	3.07E+01	0.470392611	40	1.66E-04
19	1.76E+00	1	19	3.97E-07
8	2.66E-01	0.117810092	8	4.91E-01
12	9.92E-01	0.264931262	12	1.54E-01
13	1.43E+00	-0.160537881	13	5.58E+00
1	4.86E-01	-0.158714984	1	8.41E-01
6	4.66E-03	0.052642381	6	6.64E-01
13	2.97E-08	0.96597052	13	3.41E-04
2	5.39E-01	0.07687456	2	5.27E-01
9	4.03E+01	-0.397366146	9	1.37E+01
6	1.42E+00	-0.132534771	6	1.62E+00
5	5.95E-01	-0.047504702	5	9.77E-01
4	2.47E+00	-0.483733466	4	4.52E+00
9	2.32E+01	-0.272659908	9	6.12E+00
3	6.62E-01	-0.176071349	3	1.22E+00
4	6.94E-01	-0.015986209	4	7.89E-01
10	1.14E+02	0.199394168	10	2.81E-01
4	8.57E-01	-0.004700784	4	7.56E-01
7	1.12E+00	0.181771571	7	3.46E-01
6	2.96E+02	-0.296778119	6	3.57E+00
3	6.86E-01	-0.126550212	3	1.04E+00
8	2.08E+01	-0.425484343	8	1.21E+01
9	6.70E+03	-0.534236168	9	3.30E+01
6	1.97E+01	-0.561774997	6	1.28E+01
9	1.60E+00	-0.017046791	9	1.18E+00
8	2.44E-01	0.279988317	8	1.89E-01
3	6.66E-01	0.180913828	3	3.89E-01

8	1.73E+00	0.225097795	8	2.61E-01
8	3.12E-01	-0.797508784	8	1.09E+02
12	4.10E-01	-0.03034009	12	1.67E+00
8	1.87E+00	0.09815004	8	5.52E-01
10	1.03E+00	0.124872163	10	4.74E-01
13	1.02E-01	-0.212892639	13	8.75E+00
4	4.17E-01	-0.285727234	4	2.16E+00
21	2.65E+03	1	21	5.04E-06
36	3.90E+00	0.152550765	36	2.82E-01
3	4.07E-01	0.028096389	3	6.33E-01
4	3.39E-01	-0.684068451	4	9.56E+00
7	5.15E-01	0.106838893	7	5.18E-01
20	1.36E+03	0.76349745	20	1.76E-04
3	1.06E+00	-0.001544855	3	6.96E-01
5	5.96E+02	-1	5	1.31E+02
3	1.23E+00	-0.321392312	3	1.93E+00
2	1.33E+00	-0.199008567	2	1.09E+00
12	1.06E+02	-0.720748487	12	4.38E+02
3	5.93E-01	0	3	6.93E-01
4	9.60E-01	-0.164270076	4	1.37E+00
5	7.63E-01	-0.118874867	5	1.33E+00
8	3.97E-01	-0.53175	8	2.27E+01
3	6.37E-01	-0.008259707	3	7.11E-01
8	3.07E+00	-0.010616779	8	1.05E+00
3	4.88E-01	-0.27430016	3	1.66E+00
1	5.21E-01	-0.264438742	1	1.05E+00
8	8.53E-01	-0.05424771	8	1.36E+00
3	6.86E-01	0	3	6.93E-01
1	3.40E-01	0	1	6.02E-01
2	2.28E-01	-0.417672662	2	1.95E+00
2	7.59E-01	-0.108782742	2	8.61E-01
4	4.25E+00	-0.37695679	4	3.04E+00
3	1.24E+00	-0.215389403	3	1.38E+00
1	2.49E+00	-0.28943181	1	1.11E+00
3	4.03E+00	-0.155980207	3	1.14E+00
2	5.64E-01	0	2	6.46E-01
3	6.18E-01	-0.025143589	3	7.51E-01
15	7.41E+00	-0.840361851	15	5.57E+03
1	5.36E-01	-0.015182096	1	6.21E-01
12	1.23E+00	0.81968081	12	1.75E-03
17	1.69E+00	0.123043862	17	4.92E-01
28	4.86E+03	-0.706820748	28	5.54E+05
5	6.55E-01	-0.162979679	5	1.60E+00
7	2.01E-01	0	7	9.18E-01
4	6.24E-01	-0.046832883	4	8.85E-01
43	8.28E-09	0.541832264	43	1.61E-05
13	1.78E+02	-0.414278094	13	4.96E+01

104	6.87E+01	-0.10170091	104	3.04E+05
2	1.23E+01	0.168067034	2	4.14E-01
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0	2	6.46E-01
24	1.16E+00	-0.029366932	24	4.65E+00
35	1.44E+01	-0.017480867	35	9.40E+00
3	7.23E-01	0.047928755	3	5.95E-01
53	1.02E-01	-0.337926241	53	6.51E+05
4	6.96E-01	-0.118129326	4	1.16E+00
29	1.18E-01	-0.123649711	29	3.65E+01
9	2.46E-01	0.251113639	9	2.09E-01
24	1.71E-01	0.398216361	24	9.13E-03
21	2.61E+03	1	21	3.02E-08
12	9.05E-01	0.304292781	12	1.12E-01
2	4.90E-01	0.241429453	2	3.41E-01
2	5.64E-01	-0.027960575	2	6.95E-01
9	7.14E+03	0.104447744	9	5.39E-01
3	1.69E+00	0.237168397	3	3.25E-01
2	1.50E+00	-0.453302476	2	2.15E+00
7	6.59E-01	-0.02337257	7	1.04E+00
9	2.63E+00	-0.252511735	9	5.38E+00
5	1.02E+01	-0.519046459	5	7.34E+00
7	2.41E+01	-0.680100483	7	3.51E+01
3	9.09E-01	-0.157841961	3	1.15E+00
2	1.64E+00	-0.01576419	2	6.73E-01
14	3.27E+02	-0.421130681	14	7.09E+01
6	1.05E+02	0.020636262	6	7.74E-01
7	2.27E-01	-0.625128117	7	2.62E+01
13	1.18E-01	-0.063947705	13	2.43E+00
8	2.65E+00	-1	8	1.08E+03
17	2.03E+01	0.568842757	17	4.02E-03
11	1.57E+00	0.06224844	11	7.61E-01
11	1.11E+00	0.078845439	11	6.71E-01
10	7.68E-01	0.649844913	10	1.21E-02
6	7.16E-02	0.701148686	6	2.92E-02
12	1.78E-01	-0.015126384	12	1.47E+00
21	2.11E-02	1	21	5.29E-07
11	4.79E+00	0.103772592	11	5.56E-01
8	3.45E+01	-0.792687051	8	1.06E+02
11	6.15E+02	-0.211924167	11	5.99E+00
16	3.21E+01	0.818230193	16	3.97E-04
6	5.33E+02	0.095733025	6	5.39E-01
18	1.50E+05	0.078034075	18	8.22E-01
7	1.93E+01	-0.234335671	7	3.22E+00
5	6.62E-01	0.002911324	5	7.87E-01
5	4.96E-01	0.042646689	5	6.64E-01
2	5.64E-01	0	2	6.46E-01

9	6.58E-01	-0.670532775	9	7.95E+01
3	3.67E-01	-0.005107666	3	7.04E-01
2	3.14E-01	-0.173508452	2	1.02E+00
3	8.89E-02	-0.019533492	3	7.37E-01
5	6.57E-01	-0.002748621	5	8.07E-01
2	5.72E-01	-0.051053128	2	7.39E-01
6	3.22E+00	-0.412563704	6	6.24E+00
4	1.28E+01	-0.372452238	4	2.99E+00
11	6.05E+02	-0.373544647	11	2.02E+01
5	7.00E+01	-1	5	5.99E+01
17	1.27E+00	-1	17	1.25E+05
17	1.59E+00	-0.198049949	17	1.57E+01
21	5.21E+02	0.498113827	21	3.88E-03
16	1.94E+02	1	16	1.11E-06
27	5.93E-01	0.054118814	27	1.56E+00
10	1.72E-02	0.00994288	10	1.06E+00
18	3.20E+01	-0.275908926	18	4.52E+01
2	4.76E-01	-0.546314326	2	2.75E+00
3	1.07E+00	-0.011935819	3	7.20E-01
2	4.75E-01	-0.022646115	2	6.86E-01
15	1.12E+00	-0.14509627	15	6.57E+00
13	1.09E+00	-0.734317159	13	7.81E+02
20	8.31E+02	-0.378330881	20	2.50E+02
19	2.27E-03	0.127575092	19	4.69E-01
10	2.63E-01	-0.155271177	10	3.35E+00
6	2.03E+00	-0.380689223	6	5.35E+00
12	9.86E+03	-0.998374211	12	4.12E+03
3	1.08E+00	0.120014662	3	4.72E-01
7	2.99E+00	-0.533552222	7	1.60E+01
5	5.66E+00	-0.111944995	5	1.29E+00
2	7.08E-01	-0.392405099	2	1.83E+00
14	3.17E+06	-0.019404767	14	1.79E+00
6	2.31E+01	-0.668901508	6	2.15E+01
13	2.73E+02	-0.054122651	13	2.23E+00
14	3.28E+02	0.677094018	14	3.05E-03
12	1.16E+01	-0.082465502	12	2.54E+00
12	3.18E+04	-0.422550225	12	3.95E+01
10	1.73E+02	-0.18085099	10	4.01E+00
11	5.39E+01	-0.642033965	11	1.53E+02
17	3.29E+04	-0.397592616	17	1.35E+02
3	2.97E+00	-0.978216611	3	1.57E+01
7	2.06E+00	-0.354387901	7	6.13E+00
1	6.84E-01	-0.306809856	1	1.15E+00
1	2.25E-01	-0.031699916	1	6.44E-01
5	1.29E+00	-0.229890573	5	2.13E+00
3	1.06E+00	-0.088754659	3	9.20E-01
5	8.57E-01	0.428433437	5	1.28E-01

2	6.32E-01	-0.177898277	2	1.03E+00
3	7.28E-01	-0.097072212	3	9.44E-01
5	2.24E-01	-0.13770841	5	1.44E+00
5	1.40E+01	0.130364363	5	4.57E-01
18	5.98E+02	-0.208284318	18	2.10E+01
3	1.05E+00	0.218541843	3	3.45E-01
3	9.18E-01	-0.076200342	3	8.83E-01
7	2.30E+01	0.073505965	7	6.19E-01
5	5.94E+00	-0.573738085	5	9.27E+00
27	2.15E+01	1	27	9.12E-08
1	5.57E-01	0.037874827	1	5.56E-01
4	1.40E+00	0.370749283	4	1.86E-01
13	6.07E+04	-0.620250141	13	2.92E+02
2	6.69E-01	0.297907359	2	2.93E-01
4	1.32E+03	-0.777332362	4	1.35E+01
3	6.82E-01	-0.354998099	3	2.15E+00
15	1.63E+07	-0.276836243	15	2.36E+01
8	3.70E+00	-0.178619389	8	2.83E+00
14	9.87E+02	-0.261347352	14	1.64E+01
7	1.67E+03	-0.541101863	7	1.67E+01
7	2.16E+01	0.42404155	7	9.45E-02
12	5.81E+00	0.09692887	12	5.96E-01
17	7.56E+08	0.824287144	17	2.56E-04
6	6.14E-02	0.400579944	6	1.24E-01
2	1.09E+00	-0.062338399	2	7.62E-01
5	3.70E+00	-0.218751677	5	2.03E+00
2	1.73E-01	-0.108158376	2	8.60E-01
3	5.29E-01	0.026293139	3	6.37E-01
9	1.36E+03	-0.797246587	9	1.80E+02
12	1.86E+01	-0.728432326	12	4.66E+02
12	5.81E+00	0.244359664	12	1.81E-01
1	1.45E+00	-0.118046423	1	7.72E-01
2	4.53E-01	-0.506287155	2	2.47E+00
9	5.89E+00	-0.404675511	9	1.43E+01
24	2.19E-03	0.526539322	24	1.41E-03
8	2.51E-01	0.163951185	8	3.74E-01
4	8.97E-01	-0.044435733	4	8.77E-01
13	1.98E-01	0.682109687	13	3.93E-03
12	1.50E+00	0.278510256	12	1.38E-01
3	4.89E-01	-0.365280176	3	2.22E+00
10	1.28E+04	-0.634847757	10	9.56E+01
9	1.18E+00	-0.571045559	9	4.19E+01
5	8.24E-01	-0.645773084	5	1.26E+01
5	7.15E-01	0.024585719	5	7.18E-01
4	1.54E+01	-0.053634731	4	9.08E-01
3	6.00E-01	0	3	6.93E-01
8	2.47E+00	-0.191674553	8	3.05E+00

8	6.98E-01	0.274137227	8	1.95E-01
14	2.51E+00	0.081057546	14	7.15E-01
22	1.63E+02	0.151150723	22	3.43E-01
11	9.52E-01	-0.297218536	11	1.14E+01
5	1.91E+00	-0.13288385	5	1.41E+00
8	7.65E-01	-0.158585028	8	2.51E+00
9	5.13E+00	0.246636339	9	2.16E-01
6	2.59E+00	-0.393657698	6	5.70E+00
9	3.34E+00	-0.368245145	9	1.13E+01
1	5.97E-01	-0.077980858	1	7.09E-01
6	2.92E+00	-0.29148853	6	3.48E+00
4	6.63E-01	-0.029680077	4	8.30E-01
3	5.95E-01	-0.002141371	3	6.98E-01
3	1.11E+01	-0.269375715	3	1.64E+00
4	1.46E+02	-0.459689522	4	4.13E+00
108	1.45E+22	0.302096581	108	1.44E-05
4	5.80E+01	-0.771387592	4	1.32E+01
2	5.88E-01	-0.02101297	2	6.83E-01
8	4.13E+02	0.198584688	8	3.05E-01
6	2.99E+00	-0.171830765	6	1.96E+00
9	8.86E-01	0.815871581	9	5.50E-03
65	3.50E+21	0.709132098	65	2.50E-10
10	1.04E+03	0.131744842	10	4.51E-01
8	4.03E-03	-0.304388992	8	5.93E+00
24	3.99E+00	-0.052463989	24	6.51E+00
27	1.94E+01	-0.425003921	27	3.66E+03
9	8.16E+01	0.226696979	9	2.45E-01
5	3.99E+00	0.040243172	5	6.71E-01
6	2.07E+00	0.447045793	6	9.93E-02
1	5.44E-01	-0.321845806	1	1.19E+00
7	5.05E+00	-0.787351327	7	6.24E+01
3	5.95E-01	-0.000578924	3	6.94E-01
4	1.19E+00	-0.157500314	4	1.34E+00
6	5.02E+00	-0.99880338	6	1.05E+02
5	5.70E-01	-0.061207423	5	1.04E+00
7	1.12E+00	-0.267259071	7	3.84E+00
5	1.90E+00	-2	5	4.19E+03
8	3.23E+01	-0.124361003	8	2.05E+00
8	1.87E-01	0.937472983	8	3.89E-03
11	1.91E-01	-0.49219313	11	4.94E+01
2	5.64E-01	-0.022517842	2	6.85E-01
42	3.01E+04	-0.932822108	42	7.76E+10
3	3.53E-02	-0.169078783	3	1.19E+00
3	2.18E-01	-0.2858006	3	1.72E+00
4	1.26E-02	-0.087200025	4	1.03E+00
21	1.39E+00	-0.182773428	21	2.62E+01
2	4.41E-01	0.097451332	2	4.99E-01

16	3.46E-03	0.956044398	16	9.68E-05
3	1.81E-01	0.762278042	3	6.08E-02
5	8.91E-01	-0.171757143	5	1.66E+00
5	8.24E-01	-0.048387417	5	9.81E-01
2	6.45E-01	0	2	6.46E-01
7	1.05E+00	-0.001581975	7	9.25E-01
6	1.00E+00	-0.156287641	6	1.82E+00
3	5.38E+00	-0.433800045	3	2.77E+00
11	2.99E-01	-0.204652374	11	5.67E+00
4	2.13E+00	-0.21101976	4	1.63E+00
6	1.12E+00	-0.260216742	6	3.00E+00
12	1.56E+01	-0.291967777	12	1.38E+01
13	1.84E+02	-0.543949167	13	1.52E+02
11	1.80E+02	0.812918075	11	2.67E-03
6	8.58E-04	0.935164858	6	9.45E-03
11	6.70E-01	-0.581689501	11	9.70E+01
10	9.60E-01	0.332892007	10	1.11E-01
4	4.43E+00	-0.038580763	4	8.58E-01
8	1.36E+00	-0.320843186	8	6.54E+00
5	5.88E-01	-0.182396186	5	1.74E+00
13	1.52E-01	2	13	4.26E-08
7	1.05E+00	0.203436881	7	3.08E-01
11	2.41E-01	0.594674423	11	1.38E-02
18	4.30E+02	0.919372425	18	5.99E-05
10	4.44E-04	0.534551533	10	2.71E-02
12	4.85E-01	-0.358381228	12	2.35E+01
6	4.19E+00	-0.498761194	6	9.46E+00
4	6.53E+00	-0.449286974	4	3.98E+00
3	6.13E-01	0	3	6.93E-01
8	2.51E+00	-0.301932958	8	5.85E+00
10	2.73E+02	-0.540460458	10	4.94E+01
4	1.24E+00	-0.083287024	4	1.01E+00
3	5.93E-01	0.188971514	3	3.79E-01
8	1.05E+00	-0.028552126	8	1.17E+00
7	1.68E+00	-0.004845344	7	9.42E-01
40	1.57E+08	0.089196628	40	1.17E+00
5	6.09E-02	-0.052341752	5	9.97E-01
21	5.92E-04	0.669282412	21	4.22E-04
16	2.14E+01	2	16	2.56E-08
13	1.72E+01	0.020608476	13	1.17E+00
19	1.06E+02	-0.375532647	19	1.84E+02
9	5.73E+00	0.020945698	9	9.23E-01
10	1.28E+01	0.4299365	10	5.62E-02
7	2.17E+00	0.143192879	7	4.26E-01
6	1.24E+00	-0.410158728	6	6.17E+00
21	2.04E+03	-0.476903604	21	1.18E+03
10	7.75E+00	1	10	1.04E-04

46	2.39E+04	0.125241401	46	5.14E-01
8	1.13E+01	-0.340144041	8	7.33E+00
12	2.47E+00	-0.178673311	12	5.51E+00
14	7.81E-06	0.459449726	14	2.24E-02
2	7.25E-02	-0.359250342	2	1.67E+00
20	1.24E+00	0.613061189	20	1.14E-03
3	1.97E-02	1	3	6.82E-03
5	3.28E-02	0.947176469	5	1.39E-02
6	2.03E-02	0.771613124	6	2.08E-02
4	5.40E-03	0.51589287	4	1.08E-01
13	2.74E-08	1	13	1.08E-04
13	1.32E-04	-0.000555918	13	1.41E+00
13	1.34E+00	-0.219152037	13	9.24E+00
3	3.52E-01	-0.086016683	3	9.12E-01
5	9.11E-01	0.7107654	5	3.82E-02
8	2.33E-03	0.254572204	8	2.19E-01
5	2.70E-02	0.891247083	5	1.76E-02
18	3.19E-01	0.530182508	18	4.91E-03
2	5.64E-01	0	2	6.46E-01
6	2.39E-01	-0.125947177	6	1.57E+00
15	9.03E+01	0.311465545	15	7.85E-02
16	2.75E+03	-0.119940508	16	5.90E+00
9	6.25E+01	-0.590697139	9	4.75E+01
6	3.50E-02	-0.203152679	6	2.28E+00
5	3.38E-03	1	5	1.06E-02
21	3.48E+01	-0.553517022	21	3.18E+03
20	5.96E+04	0.468315567	20	6.85E-03
12	1.43E+01	0.476000648	12	2.80E-02
5	2.25E-01	-0.342395349	5	3.45E+00
7	2.66E+00	-0.115369351	7	1.70E+00
3	6.35E-01	-0.002665343	3	6.99E-01
5	2.94E+02	0.138478996	5	4.41E-01
12	2.23E-04	0.510228966	12	2.12E-02
12	1.02E+00	2	12	3.10E-06
10	1.24E+01	-0.162856201	10	3.53E+00
30	1.63E+09	-0.552489961	30	8.76E+04
23	5.87E+06	-0.42017099	23	1.03E+03
2	6.10E-01	-0.038566388	2	7.15E-01
6	1.94E-01	-1	6	1.98E+02
21	1.34E+09	1	21	1.08E-06
7	3.11E-01	0.26605246	7	2.20E-01
1	2.36E+00	-0.211394049	1	9.40E-01
1	3.31E-01	-0.784098763	1	3.14E+00
3	9.65E+01	-1	3	4.83E+01
5	9.77E+01	-0.652907597	5	1.30E+01
9	2.17E+03	0.175414481	9	3.41E-01
9	3.60E+01	0.304219228	9	1.49E-01

4	4.98E-02	1	4	3.09E-03
23	1.45E-02	0.680950725	23	2.00E-04
11	3.91E+02	-0.21230669	11	6.01E+00
8	5.74E+01	-1	8	9.72E+02
6	9.08E+01	-0.858769173	6	5.36E+01
20	1.46E+04	-0.351407668	20	1.79E+02
2	7.79E-01	-0.114086397	2	8.74E-01
10	6.75E+02	0.3353662	10	1.09E-01
6	2.77E+00	-0.303517132	6	3.69E+00
13	5.96E+01	-0.446439338	13	6.54E+01
4	2.13E+00	-0.356210297	4	2.81E+00
6	1.15E+01	2	6	3.69E-05
24	5.28E-09	0.783302481	24	3.33E-05
2	4.85E+00	-0.129070203	2	9.09E-01
8	7.00E-03	0.184412597	8	3.32E-01
4	2.01E-01	0.127437098	4	4.62E-01
29	1.28E-05	0.524461056	29	4.97E-04
5	9.24E-01	-0.025771957	5	8.90E-01
4	1.05E+01	-1	4	5.26E+01
8	1.68E+04	-0.972199578	8	3.06E+02
15	3.26E+10	-0.801582786	15	3.82E+03
4	7.20E+01	-0.400887469	4	3.32E+00
8	2.98E+02	1	8	3.16E-04
6	3.83E-03	0.512907747	6	7.23E-02
11	1.51E-01	-0.792032861	11	4.72E+02
4	5.77E-01	-0.050178821	4	8.96E-01
9	7.43E-01	-0.163551013	9	3.03E+00
7	2.35E+00	-0.286723386	7	4.27E+00
11	2.04E+02	-1	11	2.79E+03
5	1.19E+01	-2	5	1.58E+03
23	1.15E+03	-0.351771614	23	3.94E+02
6	1.21E-01	-0.929768403	6	7.54E+01
5	2.88E+00	0.201428314	5	3.37E-01
8	5.32E+00	0.306348136	8	1.61E-01
10	4.87E+01	0.779550794	10	4.89E-03
10	4.14E+02	0.085610533	10	6.23E-01
6	5.50E+00	-0.259770862	6	2.99E+00
16	3.50E+01	0.025580484	16	1.33E+00
19	1.97E+00	-0.124841047	19	9.38E+00
11	5.16E-02	-0.449173415	11	3.58E+01
9	3.23E+02	-0.580603943	9	4.45E+01
10	1.24E+00	-0.861004377	10	4.64E+02
13	6.99E-03	-0.462128137	13	7.49E+01
18	3.49E-02	-0.319766753	18	7.43E+01
4	8.88E-01	-0.478216324	4	4.43E+00
5	5.00E-02	-0.311228305	5	3.02E+00
11	2.46E-03	0.715032294	11	5.58E-03

24	5.78E+08	-1	24	7.11E+06
26	5.63E-02	0.459899987	26	2.60E-03
7	3.14E-01	0.42366526	7	9.47E-02
3	1.36E+00	-0.025854614	3	7.52E-01
19	2.18E-01	-0.236299307	19	3.52E+01
32	1.67E-01	-0.901417204	32	1.35E+08
17	2.54E+07	-0.972364593	17	6.62E+04
8	1.04E+05	-0.28943181	8	5.43E+00
10	1.12E-03	2	10	1.63E-05
3	7.59E-03	2	3	2.43E-03
8	1.73E+00	0.372621415	8	1.09E-01
5	2.59E-01	0.348533907	5	1.80E-01
5	1.94E-02	0.049820919	5	6.44E-01
4	1.33E+00	0.323758442	4	2.22E-01
18	1.57E+04	-0.617331708	18	2.16E+03
5	4.06E+00	-0.38475573	5	4.13E+00
9	3.44E+00	0.096425308	9	5.67E-01
4	3.20E-01	1	4	1.42E-02
11	2.76E-02	1	11	8.16E-05
11	6.87E+01	2	11	1.36E-07
4	1.29E+00	0.374627002	4	1.84E-01
5	6.57E-01	-0.295079278	5	2.82E+00
27	5.82E+00	0.376937021	27	8.33E-03
6	1.09E-02	0.911394813	6	1.06E-02
9	6.72E+00	0.220064286	9	2.56E-01
9	1.46E+00	-0.434618982	9	1.74E+01
237	2.95E-29	-0.446024617	237	1.50E+32
12	8.45E-01	-0.858741763	12	1.33E+03
7	1.23E+00	0.17931113	7	3.51E-01
41	1.16E+04	2	41	7.06E-17
7	1.48E+01	-0.47270845	7	1.16E+01
18	7.40E-02	0.524333477	18	5.25E-03
11	1.74E+01	0.06479874	11	7.46E-01
15	3.71E+00	0.989681019	15	1.09E-04
52	6.55E-05	0.300408363	52	2.84E-03
11	6.00E-02	1	11	3.36E-04
17	4.86E+02	-0.350715726	17	8.13E+01
12	5.98E+07	2	12	6.21E-08
6	2.37E+01	0.158526253	6	3.99E-01
3	5.84E+00	-0.281819608	3	1.70E+00
18	8.23E+04	-0.208377036	18	2.10E+01
4	6.40E+01	-0.38888653	4	3.17E+00
1	5.94E-01	0.015920598	1	5.82E-01
5	4.79E+02	0.62917418	5	5.41E-02
14	3.37E+03	-0.053168917	14	2.44E+00
31	1.83E+03	-0.286840386	31	9.63E+02
5	1.84E+00	0.007862197	5	7.71E-01

4	1.97E+00	-0.327209556	4	2.52E+00
5	1.89E+00	-0.22871117	5	2.12E+00
4	5.27E-01	-0.032261682	4	8.38E-01
10	3.60E-03	2	10	1.43E-06
25	4.96E-08	0.408451814	25	6.76E-03
7	1.29E-02	-0.474068771	7	1.16E+01
10	8.00E+00	0.031620794	10	9.08E-01
6	3.47E+02	-0.572249125	6	1.35E+01
10	2.04E+00	0.087504747	10	6.15E-01
35	6.54E+09	2	35	3.31E-15
34	3.06E+10	3	34	3.09E-23
15	1.57E+04	0.788093164	15	7.72E-04
31	5.38E-02	0.4271571	31	1.94E-03
4	9.49E-02	0.818085536	4	3.50E-02
5	4.23E-02	1	5	3.55E-03
13	8.31E-02	2	13	1.21E-06
14	6.68E-01	0.342128147	14	6.55E-02
8	9.56E-04	2	8	2.00E-05
13	6.25E-04	2	13	1.01E-08
8	5.59E+01	-0.34104239	8	7.37E+00
10	2.03E+05	-0.934893324	10	7.78E+02
15	2.38E+02	-0.276188393	15	2.34E+01
8	1.80E+00	0.226013293	8	2.59E-01
13	7.70E+00	1	13	9.87E-05
8	8.45E-02	0.398064984	8	9.39E-02
67	5.93E-05	0.160542221	67	1.42E-01
6	4.21E-01	2	6	4.30E-05
17	1.15E+01	0.185695917	17	2.50E-01
6	8.83E-01	-0.130374523	6	1.60E+00
9	1.45E+00	0.459177465	9	5.48E-02
5	1.59E+00	0.133650813	5	4.50E-01
8	3.85E+00	1	8	1.94E-03
6	9.51E-01	-0.119832672	6	1.52E+00
5	3.69E-02	0.65493294	5	4.85E-02
6	4.71E-01	0.059714016	6	6.42E-01
15	5.21E-02	0.559629695	15	7.08E-03
10	3.78E-01	0.985329504	10	1.16E-03
2	3.90E-01	-0.486416166	2	2.34E+00
2	4.81E-01	-0.406805057	2	1.90E+00
5	1.08E-01	-0.375451132	5	3.97E+00
26	1.16E+03	2	26	4.73E-11
4	1.38E+00	-0.044607396	4	8.78E-01
47	8.94E+05	0.528225763	47	9.53E-06
1	2.61E-02	0.358773456	1	2.83E-01
7	5.23E-07	2	7	2.18E-04
25	2.77E-03	0.654094106	25	1.65E-04
1	5.14E-01	0	1	6.02E-01

4	1.10E+00	0.12061729	4	4.74E-01
3	1.01E+00	0.888909042	3	4.06E-02
4	3.10E-02	3	4	3.45E-05
5	1.72E-02	1	5	2.36E-03
12	7.92E+01	0.680497986	12	5.37E-03
9	8.26E+01	0.507800306	9	4.00E-02
5	1.89E+00	-0.660616851	5	1.34E+01
6	1.15E+00	-0.020484489	6	9.44E-01
8	1.11E+00	-0.040675271	8	1.25E+00
8	4.88E-01	-0.054007864	8	1.35E+00
31	2.67E+06	0.170047224	31	2.18E-01
9	5.22E+00	0.560080089	9	2.86E-02
14	2.08E+01	0.978500261	14	1.93E-04
17	1.66E-03	0.108038942	17	5.78E-01
5	2.10E+00	1	5	2.88E-03
12	4.17E+04	-0.206718971	12	6.92E+00
8	5.15E-01	-0.093882892	8	1.71E+00
33	2.18E+09	-0.775433037	33	2.03E+07
3	3.14E-01	0.008438271	3	6.74E-01
4	1.19E+01	-1	4	6.89E+01
8	4.49E-02	0.524717143	8	4.45E-02
6	1.29E-01	1	6	5.36E-03
10	5.93E+00	0.228691246	10	2.29E-01
6	3.96E+00	0.350321714	6	1.58E-01
9	1.30E+01	0.548111074	9	3.09E-02
4	7.20E-01	-0.024712323	4	8.15E-01
11	9.22E+01	-0.709450445	11	2.54E+02
10	4.35E+00	-0.272941242	10	7.63E+00
8	2.78E-02	-0.589383532	8	3.19E+01
1	7.60E-01	-0.042113636	1	6.58E-01
7	2.19E-04	1	7	9.90E-04
6	9.95E-03	-0.145529717	6	1.72E+00
11	1.65E+00	-0.606184223	11	1.17E+02
7	5.16E-02	0.586618703	7	3.96E-02
9	1.13E+00	-0.310560755	9	7.81E+00
6	3.09E-02	0.436056127	6	1.05E-01
3	8.01E-01	0.083453876	3	5.31E-01
5	2.71E-01	-0.543479755	5	8.14E+00
11	6.58E-02	0.109141038	11	5.34E-01
5	5.41E-01	0.127894537	5	4.61E-01
3	9.16E-01	0.011345582	3	6.68E-01
11	1.91E+00	-0.332111871	11	1.48E+01
9	6.84E-01	-0.057210152	9	1.53E+00
10	1.63E+01	-0.279868308	10	8.01E+00
14	1.57E+04	-2	14	1.94E+07
12	6.76E-04	-2	12	1.03E+06
3	7.62E+01	-3	3	2.98E+04

6	6.63E-02	-0.526782098	6	1.08E+01
2	2.83E-01	-0.065798329	2	7.69E-01
5	3.01E-01	-0.358343601	5	3.69E+00
8	3.10E+00	-0.125729175	8	2.07E+00
8	5.41E+01	-0.935314617	8	2.46E+02
8	1.27E-01	0.340388561	8	1.32E-01
2	4.61E-02	0.609170879	2	1.29E-01
18	1.43E-04	0.697351375	18	7.40E-04
5	6.20E-01	-0.065598657	5	1.06E+00
3	7.20E-02	-0.535578334	3	3.83E+00
5	1.28E+00	0.032841284	5	6.93E-01
5	5.63E-01	-0.032628815	5	9.17E-01
3	9.09E-01	-0.222860326	3	1.41E+00
4	1.94E-01	-0.27406354	4	2.07E+00
5	6.47E+02	-1	5	1.42E+02
6	7.43E-01	-0.281215504	6	3.32E+00
9	9.74E-01	-0.315660216	9	8.07E+00
3	1.34E+00	-0.233358594	3	1.46E+00
6	3.90E+01	-1	6	1.98E+02
10	1.69E+01	-0.396860987	10	1.81E+01
9	3.25E+00	0.179427926	9	3.32E-01
7	3.03E-02	-0.84641268	7	8.57E+01
4	1.12E+00	-0.374616769	4	3.01E+00
3	6.26E-01	-0.010976386	3	7.17E-01
21	2.87E+02	0.42466887	21	1.00E-02
13	5.75E+01	0.613691276	13	7.08E-03
7	4.36E+00	-0.622157521	7	2.58E+01
7	1.84E-01	-0.192582774	7	2.58E+00
55	2.68E-15	1	55	1.31E-16
4	8.73E-02	-0.362644788	4	2.88E+00
8	1.59E+02	0.500072728	8	5.15E-02
14	7.39E+03	3	14	5.23E-12
116	1.02E-27	-0.21012061	116	1.48E+09
7	2.41E+01	-1	7	3.46E+02
2	5.84E-01	-0.017281092	2	6.76E-01
7	2.15E+01	-0.26631494	7	3.82E+00
3	6.69E-01	-0.094092979	3	9.35E-01
4	1.01E+00	-0.246933901	4	1.87E+00
4	6.88E-01	-0.105728185	4	1.10E+00
6	4.23E+00	-0.255498551	6	2.93E+00
37	1.54E+04	-0.464825922	37	1.75E+05
11	2.05E+03	-0.734362587	11	3.06E+02
3	8.91E-01	0.063595579	3	5.66E-01
1	5.36E-01	0	1	6.02E-01
7	5.95E+00	-0.523211234	7	1.52E+01
10	2.69E+00	-0.030439549	10	1.40E+00
5	9.90E-01	-0.258913713	5	2.41E+00

11	2.81E+03	1	11	6.39E-04
10	7.77E+02	0.404033142	10	6.74E-02
6	1.49E+01	-0.097520142	6	1.37E+00
2	4.35E-01	0.057405697	2	5.55E-01
9	9.54E+00	0.07445977	9	6.54E-01
5	1.46E+01	-0.350729199	5	3.57E+00
4	5.82E+01	-2	4	2.74E+02
3	1.67E+02	-0.041567772	3	7.91E-01
7	1.37E+01	-0.41946137	7	8.69E+00
3	6.01E-01	-0.006487126	3	7.07E-01
6	7.21E-01	0	6	8.55E-01
2	6.42E-01	-0.234356981	2	1.20E+00
17	2.62E+05	-1	17	2.14E+05
5	2.43E+00	-0.239284264	5	2.22E+00
26	6.81E+00	-0.429021812	26	2.89E+03
14	4.20E-02	-0.059844441	14	2.60E+00
2	1.45E-01	-0.423852822	2	1.98E+00
10	8.93E+01	-1	10	3.16E+04
3	1.28E+00	-0.797208669	3	8.82E+00
3	2.90E+01	-0.721006872	3	6.92E+00
1	5.36E-01	-0.28943181	1	1.11E+00
2	6.95E-01	-0.132283846	2	9.17E-01
2	5.66E-01	-0.003445074	2	6.52E-01
3	5.86E-01	0.048518289	3	5.93E-01
9	8.15E-01	0.429440054	9	6.64E-02
5	2.72E-01	1	5	4.07E-03
6	4.94E-01	0.26474837	6	2.39E-01
4	7.00E-01	-0.056670166	4	9.18E-01
24	1.29E+04	2	24	3.82E-10
15	9.79E-01	0.278268981	15	1.08E-01
17	2.02E+02	-0.78752331	17	9.02E+03
7	2.13E+00	0.916904952	7	6.74E-03
11	6.19E+00	0.402535821	11	5.87E-02
19	7.98E-05	0.220829052	19	1.55E-01
4	1.92E+00	-0.065551493	4	9.49E-01
10	4.80E+00	0.025091348	10	9.51E-01
17	2.66E+03	-0.060910977	17	3.57E+00
3	1.62E+01	-0.425944757	3	2.70E+00
6	3.66E+01	-0.299360538	6	3.62E+00
5	4.80E+00	0.393285361	5	1.48E-01
2	5.72E-01	-0.028236848	2	6.96E-01
7	6.20E+00	-0.184764817	7	2.47E+00
10	2.83E+04	-0.56093294	10	5.70E+01
16	1.92E+05	0.387398766	16	3.27E-02
7	4.80E+03	-0.647360098	7	2.95E+01
10	2.18E+03	-0.520673519	10	4.31E+01
7	2.51E+01	0.089342345	7	5.68E-01

7	2.73E-01	-0.15636823	7	2.12E+00
7	5.64E+01	0.045546165	7	7.19E-01
8	9.12E+04	-0.797698675	8	1.09E+02
11	1.27E+01	-0.579131141	11	9.51E+01
4	9.16E+00	0.150511842	4	4.24E-01
7	5.64E-01	0.404113875	7	1.05E-01
15	5.03E-04	-0.422244036	15	9.66E+01
21	2.03E-01	0.289777977	21	5.76E-02
11	3.59E+04	0.080345271	11	6.64E-01
18	2.30E-02	-0.357516303	18	1.14E+02
6	3.28E-01	-0.43028684	6	6.80E+00
5	6.87E-01	2	5	9.09E-04
17	1.23E+03	0.780676805	17	4.10E-04
38	1.25E-12	0.522895974	38	7.50E-05
4	7.95E-01	-0.193780279	4	1.53E+00
15	2.39E-06	-0.052503669	15	2.68E+00
1	4.65E-01	0.000302717	1	6.02E-01
4	4.25E-01	0.629287329	4	7.09E-02
6	6.28E-01	0.672691258	6	3.35E-02
7	3.22E+01	-0.0401015	7	1.14E+00
6	9.02E-01	-0.481575542	6	8.70E+00
12	9.88E-02	0.145373475	12	4.03E-01
5	2.84E+00	0.986863022	5	1.17E-02
9	2.10E+01	0.156383928	9	3.86E-01
11	1.77E+00	-0.497045051	11	5.13E+01
11	1.23E+01	-0.487530063	11	4.77E+01
7	1.68E+00	0.298137954	7	1.86E-01
14	1.21E+02	-0.475340922	14	1.16E+02
9	3.90E-02	0.465354699	9	5.26E-02
2	7.21E-05	0.966850378	2	4.99E-02
7	1.18E+01	-0.295649545	7	4.48E+00
7	1.23E+01	-0.113145902	7	1.68E+00
11	3.64E+02	-0.146355125	11	3.66E+00
3	6.31E-01	-0.237244493	3	1.48E+00
5	1.00E+00	0.348751117	5	1.79E-01
4	3.65E+00	-0.115894557	4	1.15E+00
7	7.11E-01	-0.204761772	7	2.75E+00
11	1.37E+01	-0.298263525	11	1.15E+01
10	3.10E+01	-0.164911074	10	3.59E+00
5	1.95E+00	-0.662981235	5	1.36E+01
12	4.28E+04	-0.728480568	12	4.66E+02
3	5.93E-01	-0.157311955	3	1.14E+00
4	6.24E-01	-0.05169468	4	9.01E-01
1	5.41E-01	0	1	6.02E-01
22	9.75E+02	-0.203681054	22	4.11E+01
6	7.65E+02	-1	6	2.27E+02
5	1.51E+00	-0.161859023	5	1.59E+00

3	6.14E-01	-0.168356685	3	1.19E+00
7	7.37E+01	0.731362605	7	1.82E-02
3	1.74E-01	-0.728602715	3	7.09E+00
1	2.86E-01	-0.304776211	1	1.14E+00
5	1.34E+02	-0.50595949	5	6.94E+00
5	2.95E+01	-0.183256743	5	1.75E+00
3	4.75E-01	-0.25099914	3	1.54E+00
4	6.23E-01	0.311304671	4	2.32E-01
3	5.57E-01	-0.383945075	3	2.36E+00
5	1.15E+01	-0.061647335	5	1.04E+00
3	3.44E-01	0	3	6.93E-01
5	4.36E-01	-0.135486405	5	1.42E+00
2	5.40E-01	-0.116079061	2	8.78E-01
5	5.01E+02	-0.601614855	5	1.04E+01
1	5.55E-01	0.737233461	1	1.27E-01
3	5.93E-01	-0.012588105	3	7.21E-01
5	2.65E+01	-0.165786184	5	1.62E+00
5	2.05E-01	0.08678877	5	5.50E-01
4	3.78E+00	-1	4	4.31E+01
3	1.78E-01	-0.202366001	3	1.32E+00
2	5.64E-01	0	2	6.46E-01
5	1.13E+00	-0.625674715	5	1.16E+01
4	3.70E+00	-1	4	4.52E+01
8	1.24E+01	-0.091907392	8	1.69E+00
3	6.24E-01	-0.070618716	3	8.68E-01
9	8.50E+00	-0.901391725	9	3.52E+02
2	6.52E-01	0.092028236	2	5.06E-01
1	5.48E-01	0	1	6.02E-01
3	8.40E+01	-0.356616827	3	2.16E+00
2	1.52E+00	-0.670333309	2	3.81E+00
5	1.11E-01	-0.213413711	5	1.99E+00
5	4.62E+01	-0.881657379	5	3.46E+01
4	1.39E+01	-0.511675046	4	5.02E+00
4	4.81E-01	0	4	7.43E-01
6	1.18E+00	-0.736671914	6	2.97E+01
2	6.07E-01	-0.507851571	2	2.48E+00
2	1.18E+00	-0.034365147	2	7.07E-01
3	4.13E+00	-1	3	3.97E+01
7	1.33E+00	0.218305422	7	2.85E-01
4	1.40E+00	-0.149549848	4	1.30E+00
2	6.35E-01	-0.144601418	2	9.47E-01
6	4.53E+00	-0.009480396	6	8.95E-01
6	6.26E-01	-0.29286356	6	3.51E+00
3	4.52E-01	0.148088703	3	4.32E-01
7	1.43E-03	-0.38307134	7	7.15E+00
6	1.34E-02	-0.790953731	6	3.86E+01
1	2.02E-01	-0.090831856	1	7.29E-01

5	1.95E-01	-0.362127727	5	3.75E+00
7	1.37E+00	-0.486122526	7	1.24E+01
2	5.64E-01	-0.038569984	2	7.15E-01
4	9.89E-01	0.03057498	4	6.63E-01
7	5.15E-01	0.163249777	7	3.83E-01
5	2.76E+00	0.100079196	5	5.20E-01
10	1.52E+01	0.902953068	10	2.06E-03
6	5.37E-01	-0.045789866	6	1.07E+00
3	7.71E-01	-0.37462807	3	2.29E+00
4	3.93E-01	-0.273030142	4	2.06E+00
22	6.31E-01	0.282726239	22	5.80E-02
4	2.98E+00	-0.540257475	4	5.59E+00
4	4.70E+00	-0.561620038	4	6.05E+00
4	9.81E+01	-0.301740529	4	2.29E+00
4	1.81E+00	-0.305544095	4	2.33E+00
3	1.09E+00	-0.070939887	3	8.69E-01
2	7.15E-01	-0.741215138	2	4.60E+00
5	3.71E-01	0.169904654	5	3.86E-01
4	6.24E-01	0.258078362	4	2.84E-01
5	3.37E-01	0.341473345	5	1.85E-01
6	1.24E+02	0.193977877	6	3.36E-01
4	4.28E-01	-0.075109139	4	9.84E-01
5	7.85E-06	0.904283687	5	1.67E-02
6	1.40E-03	-0.8216414	6	4.48E+01
7	9.76E-02	0.02247279	7	8.13E-01
9	2.60E+01	-0.683828722	9	8.66E+01
8	1.58E+01	0.019132678	8	8.79E-01
2	4.75E-01	-0.226918497	2	1.18E+00
4	7.26E+00	-0.022282522	4	8.08E-01
2	1.25E+00	-0.158409179	2	9.82E-01
1	6.00E-01	0.030433014	1	5.65E-01
5	9.79E-01	-0.347835331	5	3.53E+00
1	1.44E-02	-0.847762704	1	3.59E+00
3	2.08E-01	-0.106980912	3	9.75E-01
5	2.16E+01	0.124594069	5	4.68E-01
3	6.04E-01	-0.066863511	3	8.58E-01
3	3.45E-01	-0.145983826	3	1.10E+00
11	1.46E+02	-0.517034027	11	5.96E+01
1	5.67E-01	0.017608761	1	5.80E-01
7	1.29E-02	0.277437118	7	2.07E-01
2	4.00E-01	-0.255711868	2	1.27E+00
4	1.85E-03	0.025639558	4	6.75E-01
6	5.30E-01	-0.424468686	6	6.61E+00
3	1.48E+00	0.217080627	3	3.47E-01
17	3.97E+00	-0.434219432	17	2.00E+02
1	4.80E-01	-0.321845806	1	1.19E+00
15	1.16E-02	0.161319904	15	3.37E-01

41	8.67E+06	-0.056768487	41	3.86E+01
23	7.84E+04	-0.067149673	23	7.25E+00
21	1.63E+02	-0.392642133	21	3.96E+02
22	5.30E-01	-0.498800478	22	2.20E+03
8	4.20E-02	0.08920762	8	5.81E-01
7	1.35E+00	-0.363653029	7	6.44E+00
2	5.64E-01	-0.13270226	2	9.18E-01
5	5.17E+01	0.369860314	5	1.64E-01
4	8.46E+00	-0.903010113	4	2.16E+01
14	8.09E+01	-0.016336226	14	1.74E+00
4	1.02E+00	0.022958962	4	6.82E-01
5	9.75E-01	-0.154584018	5	1.54E+00
5	6.82E-01	-0.00659553	5	8.20E-01
5	7.17E-01	-0.067433665	5	1.06E+00
6	2.12E+00	0.241834468	6	2.67E-01
14	3.45E+03	-0.579293184	14	3.02E+02
4	9.29E-01	0.000101364	4	7.43E-01
3	5.99E-01	0	3	6.93E-01
12	2.44E+05	-1	12	2.54E+04
4	2.23E+00	-0.861820089	4	1.86E+01
7	5.56E+01	0.144611462	7	4.23E-01
1	5.44E-01	-0.03833552	1	6.53E-01
1	7.77E-01	-0.754180134	1	2.95E+00
2	1.30E+01	-0.168945953	2	1.01E+00
5	3.86E+00	-0.107953095	5	1.26E+00
3	8.51E-01	-0.16932661	3	1.19E+00
6	1.51E+00	-0.396135279	6	5.77E+00
4	5.32E-01	-0.00968677	4	7.71E-01
3	3.14E-01	-0.011270909	3	7.18E-01
3	2.76E+03	-2	3	4.17E+02
4	1.42E+01	-0.720289508	4	1.09E+01
4	8.12E-01	-0.554208062	4	5.88E+00
4	8.64E-01	-0.152361695	4	1.31E+00
4	6.41E-01	-0.015328878	4	7.87E-01
10	1.70E+03	-0.083092526	10	2.02E+00
8	8.55E-01	-0.24178423	8	4.10E+00
2	5.64E-01	-0.140245038	2	9.36E-01
5	1.64E+00	0.003861254	5	7.84E-01
12	1.41E+03	-0.266592852	12	1.12E+01
4	3.59E-01	-0.206706138	4	1.61E+00
7	1.70E+00	-0.485739889	7	1.24E+01
4	4.58E+00	-0.24550053	4	1.86E+00
4	8.86E+02	-1	4	3.33E+01
3	1.99E+02	-0.769275691	3	8.07E+00
4	9.74E+01	-0.557370859	4	5.95E+00
4	6.85E+00	-0.124256726	4	1.18E+00
1	5.40E-01	1.17E-05	1	6.02E-01

5	9.02E-01	-0.473195331	5	6.03E+00
8	1.64E+00	0.070569961	8	6.49E-01
6	1.91E+01	0.310761134	6	1.91E-01
4	8.24E-02	0.563235118	4	9.08E-02
4	2.35E-01	0.90994292	4	2.49E-02
5	5.07E+00	-0.393039172	5	4.28E+00
6	4.49E+00	-0.476397454	6	8.49E+00
11	2.01E-01	0.211913518	11	2.47E-01
8	3.86E+00	-0.633056612	8	4.13E+01
5	3.67E-01	-0.088775163	5	1.17E+00
3	4.30E-01	-0.030220087	3	7.63E-01
4	1.63E-03	2	4	2.41E-04
3	5.24E-03	2	3	5.23E-03
6	1.42E-02	2	6	6.86E-05
10	1.74E-04	0.094403846	10	5.86E-01
8	2.50E+01	-0.49327853	8	1.81E+01
8	2.74E+00	-0.106784916	8	1.85E+00
4	1.03E+01	-1	4	1.24E+02
9	5.86E+01	-1	9	3.73E+03
10	1.70E-01	-0.009141282	10	1.21E+00
43	4.14E-03	0.410837049	43	4.19E-04
4	3.61E-02	-0.063723411	4	9.43E-01
10	8.78E+02	0.065414676	10	7.17E-01
4	1.30E-02	-0.171833132	4	1.41E+00
5	1.82E+01	0.692792908	5	4.12E-02
53	6.13E-01	-0.742042136	53	1.35E+11
6	2.80E+01	-0.177447169	6	2.01E+00
7	4.59E-01	-2	7	3.89E+03
4	3.20E+02	-2	4	6.93E+02
2	3.62E-01	0.009023938	2	6.31E-01
16	2.23E+03	-0.091462887	16	4.41E+00
13	2.01E+02	-0.57780422	13	2.03E+02
7	1.11E-01	1	7	2.93E-03
7	1.56E-01	1	7	2.27E-03
13	7.53E+00	0.438898448	13	3.19E-02
3	7.14E-01	0.078251148	3	5.40E-01
4	1.93E+00	-0.002427309	4	7.50E-01
5	1.84E+01	-0.327854737	5	3.24E+00
8	3.74E-01	-0.824603851	8	1.28E+02
4	9.56E-02	-0.491972212	4	4.66E+00
4	1.30E-01	-0.431454478	4	3.72E+00
7	8.83E-01	-1	7	5.25E+02
9	6.47E-05	-0.333020011	9	9.03E+00
4	4.29E-03	-0.728170887	4	1.13E+01
13	2.44E-02	-0.035694477	13	1.90E+00
6	1.78E+00	0.256341203	6	2.49E-01
5	2.33E+01	-0.168950316	5	1.64E+00

4	1.96E+00	-0.262232783	4	1.98E+00
9	1.58E+00	-0.172923937	9	3.22E+00
8	1.40E-02	0.078453678	8	6.20E-01
11	7.92E+01	-0.232586577	11	7.00E+00
7	4.74E+00	0.477038528	7	7.12E-02
2	5.30E-01	0.070005329	2	5.36E-01
7	3.63E-02	0.281772901	7	2.03E-01
1	4.88E-01	0.533981585	1	1.95E-01
5	7.02E-01	-0.761514776	5	2.07E+01
3	7.06E-01	-0.256372222	3	1.57E+00
13	6.88E-01	-0.183676974	13	6.81E+00
19	4.53E-04	-0.257122211	19	4.51E+01
17	2.47E-04	2	17	7.25E-08
8	1.46E-06	0.725009	8	1.36E-02
4	3.58E-02	0.086230124	4	5.39E-01
7	5.38E-01	-0.239067057	7	3.30E+00
5	2.71E+00	-0.327420867	5	3.23E+00
5	6.27E-01	-0.105183365	5	1.25E+00
11	4.86E-01	-0.551584509	11	7.73E+01
24	1.45E+00	0.112828119	24	5.85E-01
6	3.59E-02	-0.374727222	6	5.20E+00
8	1.06E+01	0.304247925	8	1.63E-01
56	9.92E+01	0.826746278	56	9.89E-11
5	1.01E+00	1	5	1.92E-03
4	8.22E-02	1	4	1.20E-02
4	3.55E-02	0.419761629	4	1.55E-01
19	5.84E+05	2	19	7.54E-10
2	2.09E-02	0.737836271	2	9.15E-02
4	5.64E-01	0.31152682	4	2.32E-01
5	2.70E+00	-0.657046904	5	1.32E+01
7	4.07E-01	-0.240896439	7	3.34E+00
12	5.79E-01	0.302575636	12	1.13E-01
12	2.96E-01	-0.075167586	12	2.39E+00
2	2.95E-01	0.149384092	2	4.35E-01
11	8.75E+01	-0.53262645	11	6.70E+01
3	1.09E+00	0.007614147	3	6.76E-01
3	6.01E-01	-0.048202983	3	8.08E-01
11	8.41E+01	-0.667715326	11	1.85E+02
3	6.43E-01	-0.006048115	3	7.06E-01
2	8.55E-01	0	2	6.46E-01
9	9.24E-01	-0.308064155	9	7.69E+00
5	7.92E-01	-0.274030698	5	2.57E+00
4	4.05E-01	-0.422682656	4	3.60E+00
17	2.41E+03	-1	17	4.95E+05
5	1.78E+00	-0.290147237	5	2.76E+00
7	2.39E+03	-0.513100791	7	1.44E+01
8	6.09E+00	-0.416509583	8	1.15E+01

3	6.44E-01	-0.046078774	3	8.03E-01
5	6.39E-01	-0.450413158	5	5.47E+00
5	4.62E-01	-0.075124682	5	1.10E+00
7	8.47E+01	-0.8608201	7	9.26E+01
13	2.10E+03	-0.750162899	13	8.95E+02
3	4.06E+00	-0.38952499	3	2.40E+00
50	9.55E+12	-0.999244186	50	5.22E+13
8	8.86E+00	-0.578719249	8	3.00E+01
13	8.99E+03	-1	13	8.07E+03
12	1.90E+00	-0.19913913	12	6.51E+00
14	3.93E-05	0.146833344	14	3.91E-01
6	4.32E-01	-0.008600023	6	8.92E-01
4	7.27E-02	-0.420413133	4	3.57E+00
13	6.65E+01	-1	13	6.33E+04
7	4.43E-01	-0.378515135	7	6.98E+00
13	4.65E+04	-0.482049209	13	8.89E+01
5	1.32E+00	-0.11684925	5	1.31E+00
11	5.26E-02	0.557502006	11	1.83E-02
14	5.94E+00	-0.2037095	14	9.69E+00
3	9.52E-01	-1	3	1.70E+01
18	1.98E-02	-0.094871424	18	5.82E+00
5	7.57E-01	0.19935037	5	3.40E-01
7	1.60E+00	-0.736147182	7	4.74E+01
2	1.99E-01	-0.020592795	2	6.82E-01
2	6.59E-01	0.059284004	2	5.52E-01
8	5.38E+00	-0.121325817	8	2.01E+00
17	6.89E-05	-0.326806956	17	6.28E+01
13	1.21E+00	0.659600072	13	4.77E-03
3	2.08E-01	-0.388023425	3	2.39E+00
11	1.49E+01	-0.297838231	11	1.14E+01
2	2.07E-02	0.588023023	2	1.36E-01
15	1.16E-07	0.484393545	15	1.47E-02
7	3.92E-01	0.440816451	7	8.64E-02
9	7.36E-01	0.158520144	9	3.80E-01
7	4.02E-02	-0.076222499	7	1.38E+00
5	8.50E-02	0.026459871	5	7.12E-01
3	9.25E-03	0.128719522	3	4.59E-01
37	5.46E-21	2	37	5.44E-14
6	2.18E-01	0.286248291	6	2.15E-01
6	9.93E-01	-0.099824831	6	1.38E+00
12	6.04E-04	0.797553407	12	2.09E-03
9	5.46E-06	0.70001802	9	1.16E-02
10	3.11E-01	0.035527527	10	8.84E-01
6	2.98E-01	0.137297029	6	4.41E-01
2	2.89E-01	0.714082721	2	9.74E-02
5	3.48E-01	2	5	2.41E-04
8	6.90E+00	3	8	4.11E-09

9	6.72E+00	0.932797273	9	2.59E-03
10	1.78E+01	3	10	3.35E-09
4	7.14E+00	-0.483456931	4	4.52E+00
15	2.94E+04	-1	15	2.75E+04
7	1.03E-01	0.428773883	7	9.22E-02
3	2.10E+00	-0.135421973	3	1.07E+00
6	3.44E+02	-1	6	4.76E+02
5	1.67E-02	-0.133736098	5	1.41E+00
2	5.19E-01	0.005904701	2	6.36E-01
4	1.74E-01	0.148876422	4	4.26E-01
3	2.35E-01	0.542566985	3	1.23E-01
4	2.61E+00	0.490341496	4	1.19E-01
3	1.12E+00	-0.058247925	3	8.34E-01
6	8.65E-01	-0.211184596	6	2.37E+00
2	5.28E+00	-0.93730279	2	7.73E+00
8	6.02E-01	-0.102021312	8	1.80E+00
10	3.23E-02	-0.386213312	10	1.68E+01
6	6.88E+01	-0.497067909	6	9.38E+00
17	5.62E-02	-0.458479924	17	2.60E+02
4	4.38E-01	-0.232241682	4	1.77E+00
12	2.56E-04	0.393112033	12	5.46E-02
5	3.71E-02	1	5	2.57E-03
4	4.55E-01	0.133003174	4	4.52E-01
8	9.18E-01	0.009532672	8	9.31E-01
7	5.61E+00	0.12264753	7	4.76E-01
7	2.84E+02	-0.451195076	7	1.03E+01
12	2.08E-01	0.14891046	12	3.92E-01
2	2.35E+00	0.790767862	2	7.95E-02
7	1.29E+02	0.785947555	7	1.36E-02
18	1.58E+02	-0.756131922	18	1.04E+04
12	2.90E+01	-0.335276305	12	1.95E+01
9	2.97E-02	-0.130400479	9	2.45E+00
9	3.05E-01	0.025542253	9	8.96E-01
6	2.30E+00	-0.672326719	6	2.18E+01
13	3.59E+01	-0.86623219	13	2.43E+03
10	7.63E-02	0.142712085	10	4.18E-01
77	6.67E-16	0.226593947	77	6.87E-03
5	1.47E-02	-0.348558835	5	3.54E+00
11	1.27E-05	0.461888104	11	3.75E-02
13	5.16E-03	0.786161989	13	1.60E-03
5	1.01E-02	0.052429675	5	6.37E-01
19	3.06E-09	0.24085638	19	1.22E-01
6	9.02E-04	0.053551789	6	6.61E-01
4	7.81E-05	0.987446652	4	1.86E-02
4	3.95E-05	0.067403268	4	5.78E-01
4	6.20E-04	0	4	7.43E-01
31	1.40E-30	2	31	1.49E-18

12	1.88E-02	0.033321056	12	9.96E-01
3	6.34E-03	0.340041296	3	2.34E-01
23	8.58E-10	0.492894986	23	2.80E-03
4	2.12E-01	0.083456333	4	5.44E-01
9	5.66E+01	-0.410720759	9	1.49E+01
8	1.46E+00	0.264089169	8	2.07E-01
10	1.88E+01	-0.357781087	10	1.38E+01
2	7.18E-01	-0.013660124	2	6.70E-01
1	5.50E-01	0.692158231	1	1.40E-01
5	8.62E-01	0.757908429	5	3.12E-02
1	6.84E-01	0.108589121	1	4.79E-01
2	5.54E-01	-0.225956282	2	1.17E+00
12	1.39E+01	-0.35129633	12	2.22E+01
25	6.60E+06	-1	25	5.78E+08
17	1.44E+01	-2	17	3.95E+09
8	1.78E-01	-0.861284465	8	1.59E+02
8	1.15E-01	-0.354519388	8	7.98E+00
12	1.85E-03	0.24228411	12	1.85E-01
3	2.19E+00	0.19989313	3	3.66E-01
31	1.55E-02	0.724329047	31	8.24E-06
53	4.04E+05	0.397501888	53	1.37E-04
22	4.59E+03	0.178466866	22	2.37E-01
7	9.06E+00	-0.012888659	7	9.83E-01
6	2.12E+02	-0.659439819	6	2.05E+01
7	3.89E-02	-0.692382242	7	3.75E+01
6	1.28E-01	-1	6	3.36E+02
1	4.92E-01	-0.010644219	1	6.16E-01
4	5.68E-02	-1	4	5.59E+01
7	3.70E-02	0.873780004	7	8.49E-03
10	3.72E+01	2	10	1.11E-05
35	1.42E-05	1	35	4.88E-09
1	1.95E+00	0.861365044	1	9.80E-02
7	1.06E+03	-0.677820113	7	3.47E+01
6	3.83E+02	-1	6	1.07E+03
1	7.42E-01	-0.091970367	1	7.31E-01
5	5.70E-01	-0.514981512	5	7.21E+00
6	6.16E-01	-0.818667786	6	4.42E+01
14	4.78E+00	1	14	1.00E-04
14	1.24E+00	-0.17980694	14	7.78E+00
5	5.30E-01	-0.287478398	5	2.73E+00
1	5.12E-01	-0.015937023	1	6.22E-01
6	2.21E+01	0.18224457	6	3.55E-01
3	1.09E+01	0.558655946	3	1.17E-01
12	9.46E+01	2	12	9.00E-07
20	1.54E-07	1	20	6.13E-08
3	6.40E-02	0.582095251	3	1.08E-01
3	2.41E+00	-1	3	3.41E+01

9	1.68E+02	0.481126021	9	4.76E-02
12	6.13E+00	0.610249644	12	9.47E-03
3	5.41E+00	0.111804735	3	4.85E-01
9	4.61E+00	0.02974999	9	8.72E-01
2	5.64E-01	-0.000431513	2	6.46E-01
6	6.91E-01	-0.039423884	6	1.03E+00
14	5.31E-04	-0.285016429	14	2.04E+01
1	5.05E-01	-0.013574552	1	6.19E-01
3	5.65E-01	-0.086951867	3	9.14E-01
10	2.38E-01	-0.22927376	10	5.62E+00
9	1.24E+00	0.220668226	9	2.55E-01
4	7.42E-01	0.175553587	4	3.86E-01
7	3.18E+01	-0.09509048	7	1.53E+00
7	1.62E+00	0.021332159	7	8.18E-01
10	6.43E-01	-0.137547266	10	2.96E+00
3	1.08E+00	-0.150834065	3	1.12E+00
3	1.62E+00	0.024940239	3	6.40E-01
5	6.04E-01	-0.175581716	5	1.69E+00
7	1.37E+00	-0.070159723	7	1.34E+00
8	2.97E+00	0.028773389	8	8.31E-01
7	7.25E-01	0.018986202	7	8.29E-01
9	1.21E+01	1	9	3.50E-04
6	8.44E+00	-0.032711532	6	1.00E+00
8	5.19E-03	0.672542652	8	1.86E-02
7	1.03E+01	-0.207526413	7	2.79E+00
25	7.86E-07	0.764772118	25	3.09E-05
20	1.43E-04	0.049296912	20	1.24E+00
56	8.43E-13	0.198280011	56	5.12E-02
6	6.91E-01	0	6	8.55E-01
3	5.93E-01	0	3	6.93E-01
12	9.38E-01	0	12	1.30E+00
2	5.64E-01	0	2	6.46E-01
3	5.93E-01	0	3	6.93E-01
2	5.64E-01	0	2	6.46E-01
1	5.36E-01	0	1	6.02E-01
4	6.24E-01	0	4	7.43E-01
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0	2	6.46E-01
2	5.64E-01	0	2	6.46E-01
1	4.90E-01	0.105055581	1	4.82E-01
26	1.29E+00	0.079763156	26	1.00E+00
6	6.91E-01	0	6	8.55E-01
3	5.93E-01	0	3	6.93E-01
12	9.38E-01	0	12	1.30E+00
2	5.64E-01	0	2	6.46E-01
2	5.64E-01	0	2	6.46E-01
1	5.36E-01	0	1	6.02E-01

4	6.24E-01	0	4	7.43E-01
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0	2	6.46E-01
2	5.64E-01	0	2	6.46E-01
1	5.36E-01	0	1	6.02E-01
5	3.37E+00	0.048061666	5	6.49E-01
1	1.99E+00	0.396253618	1	2.61E-01
8	7.40E-01	-0.38395046	8	9.49E+00
3	4.60E-01	-0.010870237	3	7.17E-01
7	5.64E-03	0.974702597	7	4.94E-03
13	1.66E-01	-0.219901089	13	9.30E+00
5	4.80E+01	-0.147027446	5	1.49E+00
22	6.15E+03	-0.723909822	22	4.60E+04
6	3.88E-01	-0.376168599	6	5.24E+00
10	7.29E-03	0.906642059	10	2.01E-03
15	8.60E+01	-0.159072402	15	7.53E+00
29	7.10E+01	0.695555532	29	2.58E-05
20	4.65E-03	0.721246886	20	2.97E-04
9	4.57E-02	0.024862295	9	9.00E-01
15	5.97E+01	-0.927416751	15	1.30E+04
4	7.45E-01	-0.087512655	4	1.03E+00
5	7.17E-01	0.359443551	5	1.71E-01
8	3.69E+00	-1	8	1.02E+03
6	3.21E+00	0.158585954	6	3.98E-01
3	8.39E-01	0.206361331	3	3.59E-01
3	8.84E-01	-0.134316478	3	1.06E+00
7	4.64E+00	0.153069592	7	4.04E-01
2	5.99E-01	-0.106193209	2	8.56E-01
9	1.09E+01	-0.08607721	9	1.84E+00
9	2.36E-04	0.28920246	9	1.64E-01
5	9.45E-01	-0.011339397	5	8.37E-01
2	5.95E-01	-0.044616995	2	7.27E-01
5	6.59E-01	-0.13172047	5	1.40E+00
3	7.06E-01	-0.018273527	3	7.34E-01
4	1.86E+01	-0.31199178	4	2.38E+00
7	8.26E-01	-0.412731688	7	8.38E+00
8	9.71E-01	-0.314575507	8	6.30E+00
4	8.89E-01	-0.392479436	4	3.22E+00
7	4.28E+00	-0.253795874	7	3.58E+00
11	5.76E+04	-1	11	1.60E+04
21	5.92E+05	-0.616218545	21	7.17E+03
8	6.27E+01	-0.166207983	8	2.63E+00
12	5.45E+02	-0.217764698	12	7.56E+00
1	2.80E-01	0	1	6.02E-01
5	5.14E-01	0.130623126	5	4.56E-01
2	1.59E+00	-0.682930594	2	3.94E+00
2	1.91E-01	-0.510158387	2	2.49E+00

4	5.92E+01	-0.71196471	4	1.06E+01
3	4.52E+01	-0.503162927	3	3.45E+00
5	2.09E+00	-0.627090476	5	1.16E+01
2	5.15E+00	-0.43916523	2	2.07E+00
7	3.64E+01	0.013012753	7	8.56E-01
5	2.82E+05	-0.548794223	5	8.33E+00
6	6.64E+00	-0.613942051	6	1.65E+01
13	2.81E+02	-0.62385757	13	3.02E+02
4	2.18E-01	-0.849183236	4	1.77E+01
4	3.51E-01	-0.696604448	4	1.00E+01
6	4.48E-05	-0.940578748	6	7.95E+01
6	8.95E-03	-0.733705494	6	2.93E+01
4	4.07E+00	-1	4	5.63E+01
4	4.29E-02	-0.094960167	4	1.06E+00
6	2.08E-02	-1	6	1.53E+02
7	1.36E+02	-0.320360409	7	5.11E+00
3	6.06E-01	-0.063649818	3	8.49E-01
4	1.55E+00	-1	4	1.54E+02
6	7.26E-01	-1	6	1.48E+02
23	2.07E-07	-0.511209844	23	3.69E+03
2	9.78E-02	-0.307338689	2	1.46E+00
1	9.95E-02	-0.29533401	1	1.12E+00
5	1.41E+00	-0.754535822	5	2.01E+01
2	8.85E-01	-0.373080795	2	1.73E+00
3	2.09E+00	-0.429091822	3	2.72E+00
6	1.36E+00	-0.134639056	6	1.64E+00
2	4.23E-02	-0.684178545	2	3.96E+00
5	4.08E+00	0.047782023	5	6.50E-01
3	8.02E-01	-0.183739485	3	1.25E+00
7	1.01E+02	-0.693500525	7	3.78E+01
11	9.71E+03	-0.195730653	11	5.31E+00
10	1.01E+04	0.833827912	10	3.34E-03
8	1.66E+00	-0.619965102	8	3.82E+01
2	5.32E-01	-0.28943181	2	1.39E+00
7	2.32E+01	-0.599219627	7	2.28E+01
6	1.59E+03	-2	6	1.18E+03
6	1.57E+04	-0.766506502	6	3.43E+01
10	2.26E+01	-0.639996746	10	9.91E+01
14	8.91E+01	-0.026426324	14	1.91E+00
4	4.27E-02	-0.551300727	4	5.82E+00
15	3.67E-02	1	15	8.64E-05
16	4.89E+00	-0.301752679	16	3.79E+01
15	9.58E-06	-0.280365237	15	2.44E+01
9	1.01E-01	0.0736513	9	6.57E-01
6	2.67E+01	-0.508957479	6	9.93E+00
13	2.65E+03	3	13	1.94E-12
9	2.93E-02	0.415332671	9	7.27E-02

9	1.94E-01	0.075978395	9	6.47E-01
19	2.34E-04	0.458360819	19	9.27E-03
7	2.73E-01	-0.408551975	7	8.20E+00
4	2.15E-03	-0.9558786	4	2.64E+01
12	6.77E+00	-0.391605034	12	3.08E+01
27	5.72E+04	-0.571852337	27	3.95E+04
7	3.93E-02	-0.709603945	7	4.12E+01
7	6.54E+00	-1	7	1.06E+03
16	1.01E+01	-0.131038297	16	6.61E+00
3	2.29E+00	0.734898299	3	6.64E-02
2	4.06E-01	-0.519012224	2	2.55E+00
10	7.33E-01	0.284486306	10	1.55E-01
7	5.40E-04	0.283918504	7	2.00E-01
4	7.21E-02	-0.252261026	4	1.91E+00
5	3.91E-01	-0.219346168	5	2.04E+00
7	7.36E+02	-1	7	1.36E+03
17	1.51E-01	-0.899630196	17	3.02E+04
6	8.31E+01	-0.220492553	6	2.47E+00
14	2.33E+00	-0.148776193	14	5.86E+00
6	1.28E-04	2	6	2.36E-04
7	4.83E-02	-0.138259645	7	1.93E+00
16	5.52E-02	-0.049164028	16	2.86E+00
15	2.28E-03	1	15	6.60E-05
8	2.53E-01	1	8	1.89E-03
5	2.30E-01	0.348232445	5	1.80E-01
8	6.63E-02	0.56459489	8	3.52E-02
7	1.20E-02	2	7	3.80E-06
12	3.08E-04	-0.113207314	12	3.25E+00
12	2.78E-03	-0.384686634	12	2.91E+01
3	1.11E+00	-0.665324923	3	5.79E+00
8	2.73E+00	-0.628074932	8	4.01E+01
4	7.55E+00	0.765018141	4	4.27E-02
5	3.52E+00	1	5	3.72E-03
8	3.49E-01	-0.231409716	8	3.86E+00
4	7.71E-01	0.000827948	4	7.41E-01
4	6.11E-01	0.038365872	4	6.44E-01
6	6.50E+00	-0.57303512	6	1.35E+01
2	5.64E-01	-0.456316833	2	2.16E+00
8	1.51E+01	-0.783045605	8	1.00E+02
3	1.55E+00	-0.263565388	3	1.61E+00
3	6.07E-01	-0.062465505	3	8.46E-01
51	2.12E-03	0.221602294	51	3.12E-02
3	9.52E-02	0.206207924	3	3.59E-01
36	1.51E-06	0.743291784	36	1.10E-06
6	4.01E-02	0.088036989	6	5.60E-01
19	1.12E-02	0.130740755	19	4.52E-01
1	5.58E-01	-0.02168893	1	6.30E-01

2	4.86E-01	-0.033352168	2	7.05E-01
68	5.03E-04	0.414633825	68	8.01E-06
7	7.04E-02	0.050660586	7	6.99E-01
7	2.41E-01	0.12195994	7	4.77E-01
11	1.43E+04	-0.816513856	11	5.68E+02
4	3.23E+02	-0.861137853	4	1.85E+01
7	3.14E-01	0.014286204	7	8.50E-01
1	5.14E-01	0.152569795	1	4.36E-01
2	4.75E-01	0.49431843	2	1.74E-01
14	4.45E-01	-0.333039951	14	3.17E+01
14	5.85E-12	1	14	1.73E-06
6	7.87E-04	-0.36741934	6	5.02E+00
12	2.37E-01	3	12	7.52E-10
10	4.47E-03	-0.151642082	10	3.27E+00
8	2.32E+01	0.082959303	8	6.03E-01
6	1.03E-01	0.562309724	6	5.70E-02
5	1.57E+00	0.781885075	5	2.82E-02
8	6.29E-01	-0.459917579	8	1.49E+01
14	3.68E-02	-0.215626774	14	1.08E+01
7	4.84E-01	-0.351261007	7	6.03E+00
5	2.35E-02	0.249498363	5	2.74E-01
9	6.14E-04	0.346672592	9	1.13E-01
8	1.03E-01	0.618328952	8	2.56E-02
11	3.05E-03	0.747607696	11	4.37E-03
1	9.26E-01	1	1	4.23E-02
6	1.29E+01	0.777955998	6	2.02E-02
4	1.36E+00	-0.108438812	4	1.11E+00
2	5.17E-02	-2	2	4.00E+01
6	2.82E-02	-0.350756724	6	4.63E+00
25	3.62E-05	0.47920713	25	2.32E-03
22	8.34E-11	0.171887788	22	2.59E-01
11	2.16E+01	0.243939794	11	1.94E-01
6	1.40E+00	0.370954429	6	1.43E-01
8	7.03E-01	0.145919656	8	4.16E-01
15	2.35E-01	0.250751899	15	1.42E-01
15	1.85E+01	-0.323754524	15	3.72E+01
3	2.12E+00	-0.527751868	3	3.73E+00
19	1.56E-08	-0.250913684	19	4.19E+01
7	1.38E+00	-0.805308747	7	6.87E+01
3	2.49E+01	-0.943192489	3	1.41E+01
5	1.90E+03	-1	5	1.23E+02
3	1.87E+03	-2	3	1.22E+03
2	5.70E-01	-0.72531445	2	4.41E+00
7	2.87E+01	-0.61939594	7	2.54E+01
2	7.15E+00	-1	2	1.23E+01
1	5.36E-01	-0.018731254	1	6.26E-01
2	5.67E-01	-0.018052301	2	6.77E-01

2	5.91E-01	-0.013512573	2	6.69E-01
42	1.83E-04	0.276600483	42	1.28E-02
16	2.48E+03	-0.307283403	16	4.02E+01
3	1.31E+00	-0.375211381	3	2.29E+00
10	1.72E+02	-0.335804378	10	1.18E+01
8	2.16E+01	-0.595191614	8	3.30E+01
13	6.54E-05	0.207464409	13	2.34E-01
14	7.66E+00	-0.129549079	14	4.91E+00
4	6.70E+00	0.261978811	4	2.79E-01
1	9.57E-01	0.788045088	1	1.14E-01
24	5.33E+11	-0.394175967	24	9.48E+02
4	7.57E-01	-0.356151452	4	2.81E+00
8	5.47E-02	-0.966586176	8	2.96E+02
6	2.17E-01	-0.427571065	6	6.71E+00
12	8.40E+00	-0.372857603	12	2.64E+01
15	2.94E-04	0.260058265	15	1.29E-01
17	8.33E-04	1	17	1.97E-05
8	1.20E+01	0.16381165	8	3.74E-01
4	1.50E-01	-0.247406042	4	1.87E+00
6	7.19E-02	-0.70945148	6	2.61E+01
11	3.57E-01	-0.316039402	11	1.31E+01
21	3.64E-05	1	21	2.15E-08
19	5.04E+00	0.876146866	19	6.51E-05
3	2.89E+00	0.186573581	3	3.82E-01
9	4.12E+04	2	9	1.57E-05
4	1.11E+02	0.97003969	4	1.99E-02
10	3.02E+01	0.360732337	10	9.11E-02
12	4.33E+01	-0.140472119	12	4.05E+00
2	1.04E+00	-0.798915438	2	5.36E+00
4	2.52E+00	-1	4	5.30E+01
9	2.04E+05	-0.725527322	9	1.13E+02
4	7.57E+00	0.636279705	4	6.91E-02
3	1.16E+00	0.876933795	3	4.22E-02
5	8.77E-01	0.248709286	5	2.75E-01
15	3.63E-02	-0.315060189	15	3.42E+01
6	4.67E-01	-0.210038119	6	2.35E+00
6	1.92E-02	0.628393216	6	4.14E-02
4	1.08E+00	0.381989627	4	1.79E-01
11	2.19E+05	0.548021375	11	1.96E-02
26	3.21E+04	0.924163234	26	1.81E-06
16	1.34E+00	0.927901234	16	1.29E-04
17	6.67E-02	2	17	2.87E-08
13	3.26E+01	0.821576903	13	1.18E-03
5	2.12E-02	-0.478180741	5	6.16E+00
2	3.42E-01	-0.78704309	2	5.19E+00
3	1.62E-01	-0.251718839	3	1.55E+00
1	5.36E-01	0.053732368	1	5.38E-01

4	6.24E-01	0.53579908	4	1.01E-01
2	7.59E-01	-0.254107382	2	1.27E+00
4	4.51E+00	0.146531497	4	4.30E-01
6	2.63E+01	-0.691481833	6	2.39E+01
6	3.36E+00	-1	6	2.11E+02
7	1.46E+00	0.27965856	7	2.05E-01
4	6.24E-01	-0.000336594	4	7.44E-01
5	9.45E-01	-0.11492681	5	1.30E+00
5	3.69E+01	-0.540851658	5	8.05E+00
3	5.60E-01	0.010400877	3	6.70E-01
5	3.01E-01	0.253136542	5	2.70E-01
67	7.63E-12	0.542390296	67	7.39E-08
7	1.35E+03	-0.320657204	7	5.12E+00
5	3.04E-01	-0.10118559	5	1.23E+00
5	1.19E+00	-0.094733672	5	1.20E+00
5	3.29E-01	-0.581616437	5	9.59E+00
12	2.04E-01	0.249516673	12	1.74E-01
18	3.67E+02	2	18	1.26E-10
16	8.90E-02	-0.232127025	16	1.86E+01
1	3.99E-01	-0.530388117	1	1.84E+00
21	8.43E-02	0.15022162	21	3.51E-01
1	7.87E+00	-1	1	1.04E+01
3	4.93E-01	-0.553992313	3	4.06E+00
6	4.77E+00	-0.76569789	6	3.42E+01
2	5.51E-01	-0.550742184	2	2.78E+00
9	3.54E-01	-0.830673065	9	2.23E+02
7	5.26E+01	1	7	2.38E-03
14	1.60E-03	-0.003287187	14	1.55E+00
5	1.33E-01	-0.15462908	5	1.54E+00
7	7.57E+00	-0.200009802	7	2.68E+00
1	8.62E-01	-0.28943181	1	1.11E+00
2	5.64E-01	-0.017715568	2	6.77E-01
6	7.26E-01	-0.143061836	6	1.70E+00
6	2.19E+00	2	6	3.43E-04
19	1.18E-01	0.135189643	19	4.29E-01
6	3.80E+01	-1	6	1.98E+02
1	8.77E-01	-1	1	9.65E+00
10	5.41E-04	-0.469846586	10	3.02E+01
46	9.82E-25	0.758213122	46	2.66E-08
10	4.22E-05	0.641981269	10	1.28E-02
6	1.44E-02	0.567557201	6	5.55E-02
6	4.78E-01	1	6	2.27E-03
8	2.51E+00	0.18277253	8	3.35E-01
12	1.53E+01	0.249578652	12	1.74E-01
15	5.05E-04	0.24887886	15	1.44E-01
4	3.34E-01	0.517449746	4	1.08E-01
5	1.05E+00	-0.244150326	5	2.26E+00

2	3.14E-01	0.129334489	2	4.58E-01
13	1.15E+00	0.679876254	13	4.01E-03
35	4.90E-08	-0.227054619	35	6.96E+02
8	2.59E+00	-0.125292139	8	2.06E+00
2	6.07E+00	-1	2	1.37E+01
43	8.11E+01	-0.166416231	43	7.23E+02
1	2.08E-01	-0.473033619	1	1.63E+00
9	1.38E+00	-0.086789015	9	1.85E+00
3	5.77E-01	-0.150638772	3	1.12E+00
3	2.67E-02	0.252385729	3	3.10E-01
4	1.04E-04	0.795079837	4	3.82E-02
4	2.34E-02	0.469518259	4	1.29E-01
11	2.04E+07	-0.926115578	11	1.30E+03
8	1.08E+02	-0.275988371	8	5.02E+00
1	4.02E-01	0.546462093	1	1.90E-01
4	1.46E+00	0.209671569	4	3.40E-01
8	8.23E-01	-0.36051294	8	8.27E+00
9	4.66E+01	-0.788256488	9	1.70E+02
7	2.74E-01	-0.507602217	7	1.39E+01
3	6.26E-01	-0.073673265	3	8.76E-01
4	5.68E-01	-0.115232092	4	1.14E+00
4	4.66E-01	0.565312051	4	9.01E-02
7	2.69E+00	1	7	6.57E-04
10	5.85E+02	0.088592016	10	6.10E-01
11	2.26E+02	1	11	2.37E-05
3	1.76E+00	0.292010078	3	2.73E-01
6	7.94E+00	0.199282573	6	3.27E-01
6	5.84E+00	0.39925095	6	1.25E-01
16	5.77E+06	0.130983076	16	4.52E-01
4	7.16E+00	-0.176915032	4	1.44E+00
4	8.66E+00	-0.539189594	4	5.56E+00
4	6.43E-01	-0.048286693	4	8.90E-01
3	5.93E-01	-0.124189064	3	1.03E+00
3	5.43E-01	-0.067854784	3	8.60E-01
13	7.85E-02	0.415955643	13	3.89E-02
17	1.16E+00	0.420403126	17	1.99E-02
1	5.85E-01	0.354508524	1	2.85E-01
20	3.02E-03	0.068032204	20	9.84E-01
14	3.34E+00	-2	14	5.14E+06
6	2.93E-04	-0.16021833	6	1.85E+00
8	1.66E-01	-0.621007985	8	3.85E+01
5	7.81E-01	0.038289725	5	6.77E-01
2	9.49E-01	-0.115173053	2	8.76E-01
6	4.31E+00	0.69563898	6	3.00E-02
4	1.30E+00	0.483071288	4	1.22E-01
6	2.08E+00	0.061375203	6	6.36E-01
26	9.09E-13	0.582546204	26	3.81E-04

10	4.49E-02	0.253430062	10	1.93E-01
3	1.21E+00	-0.143674107	3	1.10E+00
4	1.31E+00	0.216834984	4	3.31E-01
14	1.89E+01	0.579039133	14	7.48E-03
8	1.53E+03	-0.786510405	8	1.02E+02
2	1.54E+00	2	2	4.93E-03
6	7.86E+01	0.648393865	6	3.76E-02
8	5.04E-01	0.268512887	8	2.02E-01
1	9.18E-02	0.170015144	1	4.21E-01
1	9.18E-02	0.170015144	1	4.21E-01
6	2.38E-01	0.500263927	6	7.68E-02
19	1.77E-01	0.559602163	19	2.79E-03
6	9.39E-02	0.754815576	6	2.25E-02
16	7.93E+01	-0.544765709	16	4.57E+02
3	5.98E-01	-0.00624942	3	7.07E-01
5	8.73E-01	-0.234326324	5	2.17E+00
2	8.24E+00	-2	2	6.41E+01
3	5.95E+01	0.281330111	3	2.82E-01
8	4.37E+01	0.818757528	8	7.84E-03
7	7.25E-01	0.595534075	7	3.77E-02
3	1.59E+01	-0.636094757	3	5.27E+00
4	1.99E+02	-0.302258502	4	2.30E+00
5	3.76E+03	-0.369975065	5	3.88E+00
3	5.66E+02	-1	3	4.73E+01
4	6.18E+00	-0.037465062	4	8.55E-01
3	6.21E-01	-0.007339783	3	7.09E-01
13	3.35E+00	0.637061439	13	5.79E-03
5	5.26E+00	-1	5	1.48E+02
1	4.24E-02	-0.984634691	1	4.79E+00
6	5.99E+00	-0.839827125	6	4.89E+01
1	3.46E+00	-0.028846715	1	6.40E-01
13	3.29E-03	0.235295307	13	1.84E-01
14	1.51E-01	1	14	1.01E-05
6	1.67E+01	-0.144994266	6	1.72E+00
4	2.00E-01	0.061876883	4	5.90E-01
20	3.70E-09	0.691451577	20	4.30E-04
1	1.48E-01	-0.190613147	1	8.99E-01
6	4.30E-01	4	6	2.15E-08
6	3.72E+00	2	6	2.92E-05
7	4.23E-01	0.334148176	7	1.53E-01
6	5.03E-04	-0.294303311	6	3.53E+00
4	7.12E-01	0.082390184	4	5.46E-01
7	5.34E+01	-0.20917677	7	2.82E+00
4	6.45E-01	-0.040242782	4	8.64E-01
2	5.64E-01	-0.161046247	2	9.89E-01
27	4.96E+02	-0.332122447	27	8.13E+02
29	1.39E+08	-1	29	1.52E+08

4	3.18E+00	-0.514209407	4	5.07E+00
10	4.52E+00	-0.072389173	10	1.88E+00
10	5.83E-02	0.202499269	10	2.75E-01
3	1.71E-02	-0.20249288	3	1.32E+00
3	6.57E-01	-0.135237482	3	1.07E+00
25	1.81E+03	-0.532399321	25	1.02E+04
8	2.43E-03	0.294616632	8	1.73E-01
7	1.57E-02	0.148660727	7	4.14E-01
2	3.01E-01	0.233558826	2	3.48E-01
11	2.19E-03	0.956803965	11	9.04E-04
14	1.25E-01	-0.418091782	14	6.90E+01
14	3.75E-07	2	14	3.21E-09
9	2.12E-02	0.187956472	9	3.15E-01
6	3.49E+00	0.660144335	6	3.56E-02
11	2.77E-01	-0.15414339	11	3.88E+00
22	1.70E-06	0.854692074	22	2.58E-05
4	5.17E-01	0.122244394	4	4.71E-01
7	7.25E-01	1	7	4.22E-03
1	5.36E-01	0	1	6.02E-01
1	1.17E+00	-0.238097127	1	9.94E-01
2	1.37E+00	-0.278549175	2	1.35E+00
6	2.58E+00	0.345737622	6	1.62E-01
21	1.44E+03	-0.6332721	21	8.94E+03
10	1.51E+01	-0.20318758	10	4.69E+00
13	4.06E+04	0.351299997	13	6.79E-02
16	2.21E+04	0.232344876	16	1.60E-01
5	3.44E+00	0.169723081	5	3.86E-01
16	8.06E+03	0.610635007	16	3.33E-03
3	5.71E+00	0.728049595	3	6.79E-02
8	3.70E+01	0.093782074	8	5.66E-01
3	6.70E-01	-0.049929557	3	8.12E-01
6	9.09E+00	-0.614995197	6	1.66E+01
13	2.75E+00	-0.511266768	13	1.14E+02
13	3.82E+01	-0.348652816	13	2.82E+01
3	4.21E-01	-0.232721833	3	1.46E+00
9	4.47E+01	0.848138177	9	4.47E-03
19	7.80E-02	1	19	4.38E-07
10	1.41E-01	-0.117801137	10	2.58E+00
8	7.82E-02	-0.157958994	8	2.50E+00
15	1.91E-03	0.267803831	15	1.20E-01
27	2.58E+04	0.196101623	27	1.56E-01
17	5.01E-01	-1	17	9.86E+05
12	9.73E+00	-1	12	5.30E+03
6	1.08E+00	-0.180609047	6	2.04E+00
41	2.87E+07	0.869119777	41	1.05E-08
4	2.50E-01	0.370221633	4	1.87E-01
1	4.56E-01	0.164215708	1	4.26E-01

15	4.44E+01	1	15	4.25E-06
15	8.94E+03	0.092333358	15	6.58E-01
6	2.72E-02	0.331766381	6	1.73E-01
12	4.75E+02	0.620513958	12	8.72E-03
7	9.35E-01	-0.228113762	7	3.12E+00
5	1.07E+01	0.254574369	5	2.68E-01
6	1.57E+01	-1	6	3.58E+02
4	2.57E+02	-0.341232943	4	2.66E+00
4	8.60E+00	-0.19889021	4	1.56E+00
4	2.18E-02	-1	4	7.70E+01
12	1.81E-05	-0.320387011	12	1.73E+01
20	4.53E+00	0.543933123	20	2.68E-03
7	2.10E-01	-0.480898814	7	1.21E+01
6	5.65E-01	-0.198701802	6	2.23E+00
3	5.05E-01	-0.018065893	3	7.34E-01
6	2.32E-01	0	6	8.55E-01
3	8.65E-01	-0.637263764	3	5.29E+00
10	1.21E+00	-0.125427412	10	2.72E+00
8	4.28E+00	-1	8	5.41E+02
4	2.48E+00	-0.442358171	4	3.88E+00
9	1.57E+00	0.191046956	9	3.08E-01
3	1.57E+00	-0.240138581	3	1.49E+00
8	1.45E+00	-0.217171964	8	3.55E+00
7	4.36E+00	0.95016858	7	5.64E-03
10	5.70E+01	-0.185356451	10	4.14E+00
43	5.96E+03	0.192544454	43	9.57E-02
15	2.18E+02	0.948096674	15	1.64E-04
8	6.52E-02	0.887755375	8	5.22E-03
2	3.88E-01	0.077330099	2	5.26E-01
3	5.75E-01	-0.080939395	3	8.97E-01
13	1.63E+01	0.661584237	13	4.69E-03
6	2.32E+02	0.76078611	6	2.19E-02
5	2.80E+03	0.767295505	5	3.00E-02
8	1.45E+00	-0.551811681	8	2.56E+01
6	4.65E-01	0.030599563	6	7.38E-01
6	1.53E-01	-0.216649257	6	2.43E+00
10	8.32E-01	0.267843088	10	1.74E-01
12	1.36E+00	-0.873772845	12	1.51E+03
10	2.62E+00	-0.056881446	10	1.69E+00
6	6.10E+00	-0.671876612	6	2.18E+01
28	1.16E-05	0.165425001	28	2.52E-01
4	1.27E-02	-0.352730716	4	2.77E+00
2	5.19E+00	-0.893248057	2	6.88E+00
10	5.53E+00	-0.340149557	10	1.22E+01
12	1.36E+03	-1	12	2.57E+04
7	3.89E-01	-0.156425151	7	2.12E+00
7	3.18E-03	0.151340085	7	4.08E-01

12	8.53E-01	-0.335663131	12	1.96E+01
17	4.66E+05	-1	17	7.43E+05
7	2.68E+00	-0.917134065	7	1.25E+02
18	1.63E-04	0.59182598	18	2.44E-03
1	4.36E-01	-0.012763671	1	6.18E-01
2	2.33E+00	0.122846379	2	4.66E-01
14	3.95E+01	0.229490769	14	1.84E-01
67	2.03E+06	-0.51583648	67	1.91E+10
20	3.15E+08	-0.967158255	20	3.73E+05
10	6.53E+03	-0.749197369	10	2.13E+02
11	7.81E+01	-0.455202462	11	3.74E+01
6	1.06E+03	-2	6	2.35E+03
6	1.57E+01	-0.912757395	6	6.95E+01
3	3.51E+00	-0.381621478	3	2.34E+00
5	4.67E+02	-0.046021283	5	9.71E-01
6	9.30E+03	1	6	5.99E-03
8	2.36E+03	0.558626435	8	3.64E-02
11	3.79E+01	-0.244395745	11	7.65E+00
13	5.47E+01	-0.076334029	13	2.70E+00
4	7.88E-01	0.003622746	4	7.33E-01
13	1.17E+00	-0.459316706	13	7.31E+01
7	3.65E-01	-0.27554681	7	4.02E+00
5	1.67E-01	0.628349358	5	5.43E-02
5	1.24E-02	1	5	2.57E-03
16	1.98E+00	0.158299437	16	3.42E-01
4	1.41E-01	-0.055646744	4	9.15E-01
17	7.29E+03	-1	17	8.87E+05
3	4.62E-01	-0.814808841	3	9.33E+00
4	1.79E+00	0.470061246	4	1.29E-01
4	1.01E+00	-0.254027806	4	1.92E+00
2	1.80E+00	-0.491548463	2	2.37E+00
3	8.06E-01	0.904833088	3	3.86E-02
13	4.98E+00	0.608718699	13	7.39E-03
9	1.02E-01	0.465543994	9	5.26E-02
15	4.31E+02	0.335056283	15	6.25E-02
1	5.48E-02	0.14479637	1	4.44E-01
6	5.71E-02	0.004710927	6	8.36E-01
15	8.58E+00	-0.786252394	15	3.30E+03
47	1.17E-11	0.276969566	47	8.51E-03
17	3.64E-04	0.02026338	17	1.49E+00
39	1.54E-05	0.57195399	39	1.99E-05
9	1.74E+02	-0.743296903	9	1.27E+02
7	5.00E+00	-0.079903042	7	1.41E+00
3	1.10E-02	0.128211101	3	4.60E-01
6	1.14E-01	0.87501018	6	1.26E-02
14	2.75E-01	1	14	5.84E-05
10	2.00E-01	0.044475234	10	8.30E-01

5	1.19E-01	1	5	2.55E-03
4	3.45E-02	1	4	1.25E-02
7	1.45E-02	2	7	1.55E-04
3	8.89E-04	2	3	5.01E-04
8	3.86E+01	0.425928931	8	7.97E-02
4	1.50E+00	-0.092205973	4	1.05E+00
4	2.00E+00	-0.664810859	4	8.89E+00
12	2.25E-04	-0.755434666	12	5.80E+02
10	2.64E-05	0.570473396	10	2.11E-02
3	2.39E-01	-1	3	4.14E+01
6	7.76E-01	0.153893707	6	4.08E-01
3	1.55E+00	-0.497369803	3	3.39E+00
8	1.20E+01	-0.893403345	8	1.92E+02
4	2.87E+00	-0.606798289	4	7.16E+00
5	2.64E+01	-0.787828803	5	2.31E+01
3	5.93E-01	0.376436816	3	2.08E-01
9	4.89E-01	-0.26127514	9	5.69E+00
6	1.72E-02	0.862173032	6	1.34E-02
5	3.43E-02	1	5	3.21E-03
4	3.50E-02	1	4	5.98E-03
3	1.87E-02	-0.235188063	3	1.47E+00
10	2.68E-01	-0.36282482	10	1.43E+01
7	8.93E+00	-0.355690237	7	6.17E+00
3	3.53E-02	-0.163901243	3	1.17E+00
2	4.41E-01	-0.025265978	2	6.90E-01
4	1.87E-01	0.316726468	4	2.28E-01
5	1.91E-03	0.506385442	5	9.15E-02
10	9.08E-04	1	10	6.11E-04
22	3.43E-02	-0.361485583	22	3.46E+02
8	4.24E-03	2	8	4.62E-06
6	3.57E-01	0.59745945	6	4.81E-02
50	2.36E+09	-0.518489454	50	5.39E+07
11	1.86E+01	-0.45044209	11	3.61E+01
2	4.35E-01	0.188051777	2	3.92E-01
3	5.11E-01	0.023464506	3	6.43E-01
4	5.82E-02	-0.216521706	4	1.67E+00
6	1.00E+01	0.576242479	6	5.33E-02
8	2.11E-03	-0.41148097	8	1.12E+01
1	4.66E-01	-0.031699916	1	6.44E-01
12	3.47E-04	-0.119234958	12	3.41E+00
11	3.05E+00	0.756771842	11	4.08E-03
1	5.71E-01	0.040721305	1	5.52E-01
4	1.07E+00	-0.126921404	4	1.19E+00
2	1.02E+00	-1	2	1.71E+01
5	9.54E-01	-0.457146827	5	5.63E+00
4	9.45E-01	0.635518797	4	6.93E-02
6	7.03E+01	2	6	7.89E-05

5	2.03E+00	-0.530874455	5	7.72E+00
2	1.28E+00	-0.307719278	2	1.46E+00
2	8.07E-01	-0.422731831	2	1.98E+00
1	5.56E-01	-0.051401105	1	6.71E-01
2	1.71E+01	-1	2	2.14E+01
3	1.90E+00	-0.581104242	3	4.43E+00
1	5.72E-01	0.009296002	1	5.90E-01
3	1.61E+00	-0.866901574	3	1.10E+01
3	4.74E-01	-0.089206858	3	9.21E-01
14	1.65E-01	-0.4202931	14	7.04E+01
10	1.45E+02	-0.89529049	10	5.90E+02
15	3.01E+03	-2	15	7.95E+06
40	4.82E+05	-0.552309174	40	3.52E+06
9	4.10E+00	-0.676701861	9	8.27E+01
8	1.06E+04	-0.769224139	8	9.22E+01
22	1.42E+00	-0.306825488	22	1.65E+02
39	1.09E+08	-0.335599226	39	1.77E+04
6	1.30E+00	0.612559069	6	4.47E-02
22	8.36E-03	1	22	4.93E-08
4	2.93E-01	1	4	7.30E-03
7	1.78E+00	0.448876635	7	8.28E-02
8	1.58E+00	0.955639168	8	3.50E-03
2	2.83E-01	0.03980137	2	5.81E-01
7	4.52E-02	-0.284027801	7	4.21E+00
13	3.01E-03	0.479781468	13	2.24E-02
18	3.17E-05	-0.441253458	18	2.94E+02
4	1.04E-03	-0.787706625	4	1.41E+01
9	9.67E-03	-0.420664661	9	1.59E+01
1	1.81E-01	-0.37430147	1	1.32E+00
3	4.82E-02	-1	3	4.08E+01
6	4.26E+00	-0.138761648	6	1.67E+00
8	1.10E+02	-0.081604545	8	1.59E+00
9	6.12E+01	-0.707437638	9	1.01E+02
3	5.51E-01	-0.000330033	3	6.93E-01
3	6.05E-01	-0.001478435	3	6.96E-01
6	1.41E-01	-0.37640113	6	5.24E+00
6	1.18E-05	0.991106879	6	7.22E-03
4	8.39E-02	1	4	9.53E-03
3	1.84E+00	-0.051147864	3	8.16E-01
12	8.03E+00	-0.366011427	12	2.50E+01
5	3.69E-01	0.136501162	5	4.45E-01
5	6.56E+00	-0.570601434	5	9.14E+00
47	6.29E+01	0.232446528	47	2.84E-02
7	2.07E+01	0.372426229	7	1.25E-01
9	6.09E+01	0.176866595	9	3.38E-01
16	7.87E+03	-0.31340303	16	4.28E+01
12	5.45E+00	0.542994321	12	1.63E-02

9	1.07E+00	-0.132579357	9	2.48E+00
11	5.51E+00	-0.158702033	11	4.01E+00
5	2.89E-01	0.444404778	5	1.19E-01
12	8.52E-03	0.783845933	12	2.33E-03
5	1.06E+01	0.387371054	5	1.52E-01
15	3.72E+02	-0.652128971	15	8.98E+02
1	6.27E-01	0	1	6.02E-01
5	6.71E-01	-0.278880729	5	2.63E+00
2	5.47E-01	-0.016751597	2	6.75E-01
11	1.12E-04	-0.682679954	11	2.07E+02
1	5.36E-01	2.81E-05	1	6.02E-01
4	1.50E+00	-0.249196781	4	1.88E+00
5	1.17E+00	-0.252365479	5	2.35E+00
6	8.54E-01	0.009338403	6	8.18E-01
4	6.24E-01	0.031556933	4	6.61E-01
4	2.74E+00	-0.641278188	4	8.14E+00
15	4.34E+02	-0.56381627	15	3.81E+02
14	2.05E-04	-0.189917981	14	8.54E+00
8	3.20E-01	-0.337922109	8	7.23E+00
1	5.36E-01	-0.012763671	1	6.18E-01
4	6.11E-01	-0.244949657	4	1.85E+00
7	4.59E-01	-0.197194877	7	2.64E+00
4	6.82E-01	-0.108160959	4	1.11E+00
2	3.17E-01	0.140263649	2	4.45E-01
4	5.81E-02	0.009126484	4	7.18E-01
13	6.76E-01	-1	13	1.84E+04
5	2.69E-03	1	5	6.22E-03
11	5.77E-05	1	11	5.33E-04
13	3.59E-05	0.945438894	13	4.07E-04
4	6.35E-03	-0.0510185	4	8.99E-01
10	4.69E-05	0.838632049	10	3.23E-03
8	3.24E-01	0.187434971	8	3.26E-01
7	3.08E-06	0.450719189	7	8.19E-02
8	3.80E-02	-0.154201193	8	2.45E+00
4	4.18E-02	-0.740813786	4	1.18E+01
13	1.21E-01	-0.587674863	13	2.21E+02
21	1.85E-07	-0.181974515	21	2.59E+01
7	5.77E-04	0.365820685	7	1.29E-01
5	4.43E-02	0.015924104	5	7.45E-01
6	5.03E+00	-0.470675487	6	8.26E+00
4	1.65E-01	0.160464818	4	4.08E-01
5	3.53E-01	0.017842604	5	7.39E-01
4	3.26E+01	-2	4	2.49E+02
2	8.74E+00	-1	2	1.79E+01
6	1.52E+05	-0.616075102	6	1.66E+01
3	6.09E-01	-1	3	2.13E+01
6	6.45E+00	-0.137257371	6	1.66E+00

9	4.01E+02	-0.381785399	9	1.24E+01
5	5.21E+01	0.010334482	5	7.63E-01
15	6.90E+01	2	15	5.62E-07
5	2.40E-02	2	5	5.40E-04
2	4.91E-03	2	2	1.23E-03
12	1.18E-05	0.38152505	12	6.00E-02
9	1.24E-03	-0.154171415	9	2.85E+00
5	4.11E-02	-0.451080401	5	5.49E+00
8	8.07E-03	0.068062098	8	6.59E-01
7	2.39E-05	0.395771432	7	1.10E-01
7	3.16E-01	-0.410885968	7	8.30E+00
3	5.47E-01	-0.307970781	3	1.85E+00
6	2.22E-04	-0.388795738	6	5.57E+00
16	1.77E-01	0.137493584	16	4.23E-01
11	2.35E+00	0.905979846	11	1.33E-03
8	2.57E+01	-0.283115361	8	5.23E+00
6	8.62E-01	-0.683258317	6	2.30E+01
9	3.96E+00	-0.425935618	9	1.64E+01
3	9.94E-01	-0.455374601	3	2.96E+00
1	2.23E-01	-0.37430147	1	1.32E+00
2	1.02E+01	0.303855568	2	2.89E-01
4	6.55E-01	-0.014997842	4	7.86E-01
7	1.20E+01	-0.508722801	7	1.40E+01
5	9.02E-02	-1	5	1.35E+02
3	4.63E-01	0.124243248	3	4.66E-01
4	1.78E+01	-1	4	7.19E+01
14	6.79E+02	-1	14	7.70E+04
11	7.85E-01	0.358561839	11	8.17E-02
5	3.12E+00	-0.539844585	5	8.02E+00
11	6.59E+04	-0.731235157	11	2.99E+02
16	1.10E+00	-0.196452078	16	1.29E+01
5	3.14E+01	-0.943426866	5	4.50E+01
8	6.07E+04	-1	8	3.98E+02
5	1.64E+01	-1	5	1.97E+02
7	1.71E+02	-0.330579503	7	5.40E+00
10	3.28E+05	0.196059474	10	2.88E-01
5	1.44E+02	-1	5	1.12E+02
11	7.18E-01	-0.051836555	11	1.80E+00
43	3.08E+05	-0.707733413	43	5.10E+08
5	3.94E-01	-0.46176518	5	5.74E+00
3	2.20E+00	-0.230481087	3	1.45E+00
5	3.12E+02	-0.744198669	5	1.92E+01
1	8.42E-01	-0.083998661	1	7.18E-01
7	2.37E+00	0.270578179	7	2.15E-01
5	1.30E-01	-0.312475278	5	3.03E+00
11	2.95E+01	0.01564892	11	1.08E+00
6	3.68E+00	0	6	8.55E-01

3	2.77E-01	0.240690755	3	3.21E-01
30	4.85E-06	0.10047828	30	7.70E-01
6	1.71E-03	0.298069065	6	2.03E-01
10	1.61E-03	2	10	3.11E-05
3	6.09E-01	0	3	6.93E-01
3	1.17E+00	-0.503906122	3	3.46E+00
13	5.17E+01	-1	13	9.77E+03
4	6.37E+00	-0.388283436	4	3.17E+00
5	7.11E-01	0.235786946	5	2.91E-01
4	2.84E+01	0.245571145	4	2.97E-01
4	1.47E+00	0.025914898	4	6.75E-01
8	4.23E+04	-1	8	1.06E+03
4	2.02E+00	-0.645835416	4	8.28E+00
9	3.56E+02	-0.827004786	9	2.18E+02
8	3.70E-01	-0.965178488	8	2.93E+02
3	1.24E-02	-0.768245992	3	8.04E+00
3	1.69E-01	-0.330159918	3	1.99E+00
13	3.38E-05	2	13	2.19E-08
26	8.15E-10	0.725069857	26	4.08E-05
5	3.41E-02	0.621715133	5	5.59E-02
17	8.29E-05	0.675697041	17	1.27E-03
2	4.18E-02	-0.305113506	2	1.45E+00
10	1.44E-03	-0.411959227	10	2.01E+01
6	3.15E-01	0.041426332	6	7.01E-01
14	2.23E+02	-0.747647	14	1.41E+03
34	2.26E-03	-0.695560773	34	6.73E+06
7	2.57E-01	-0.616923109	7	2.50E+01
7	9.55E-01	-0.167214979	7	2.25E+00
8	6.94E-02	0.062462515	8	6.81E-01
19	7.27E+02	-0.734660955	19	1.30E+04
26	4.62E-01	0.930853783	26	1.63E-06
20	2.26E+02	-0.275887994	20	7.02E+01
7	1.96E+00	-0.230713323	7	3.16E+00
9	1.85E+00	0.041345993	9	8.09E-01
5	7.95E-01	-0.002632024	5	8.06E-01
59	8.08E+01	0.009019569	59	2.62E+01
4	3.72E-01	0.930610809	4	2.30E-02
7	2.29E+03	0.033397442	7	7.67E-01
6	2.22E+00	0.340359109	6	1.66E-01
2	2.70E-01	0.074228673	2	5.30E-01
5	4.67E-01	0.095632357	5	5.30E-01
11	2.61E-06	1	11	5.36E-04
10	4.42E-05	2	10	2.46E-07
14	6.82E-01	0.806661488	14	9.31E-04
6	5.77E-02	-0.031493581	6	9.95E-01
20	2.74E-05	0.287256149	20	6.48E-02
5	1.37E-02	2	5	1.20E-03

12	4.55E-01	0.263287435	12	1.56E-01
2	3.49E-01	0	2	6.46E-01
36	5.17E+03	-0.573763659	36	1.26E+06
23	3.53E-01	-0.044850969	23	5.30E+00
18	1.18E-06	0.85844359	18	1.19E-04
4	1.49E-01	0.722527691	4	5.01E-02
5	3.06E+00	0.505299365	5	9.19E-02
14	1.16E+00	0.930031608	14	3.01E-04
9	4.14E+00	0.173496304	9	3.45E-01
44	4.43E+02	-0.564952264	44	2.13E+07
7	9.84E+00	-0.504990928	7	1.37E+01
10	4.84E+00	-0.725594467	10	1.80E+02
5	4.67E+01	-1	5	1.61E+02
23	2.51E-01	-0.440072555	23	1.36E+03
8	7.21E-04	1	8	2.34E-03
6	2.96E+00	-0.511387759	6	1.00E+01
6	2.33E+00	-0.192715465	6	2.16E+00
11	7.50E+00	-0.152459534	11	3.83E+00
9	1.16E+01	-0.367498476	9	1.13E+01
8	3.51E+00	-1	8	2.33E+03
10	2.84E+02	-0.932854163	10	7.67E+02
5	2.45E+00	0.051611587	5	6.39E-01
4	4.18E+01	-1	4	8.15E+01
82	3.81E+11	0.786226763	82	3.45E-14
25	1.60E-01	-0.431812297	25	2.22E+03
12	3.65E+00	0.281194802	12	1.35E-01
26	5.24E-07	0.853996885	26	5.42E-06
8	2.72E-04	1	8	2.06E-03
5	5.78E-01	0.795443966	5	2.66E-02
4	5.40E-01	0.22442981	4	3.22E-01
3	4.09E-01	0.832362063	3	4.86E-02
9	1.15E+02	-0.419949531	9	1.58E+01
14	1.33E-03	-0.370104261	14	4.44E+01
7	4.53E-01	-0.853906163	7	8.92E+01
9	1.04E+00	0.900097617	9	3.20E-03
5	3.34E+00	0.468189974	5	1.08E-01
6	1.63E-03	0.663122403	6	3.51E-02
10	9.82E-01	0.174009826	10	3.36E-01
4	1.34E-01	0.805810178	4	3.67E-02
18	1.15E-07	0.97705699	18	3.11E-05
7	3.33E-01	-1	7	2.03E+03
19	2.62E-03	-0.209748785	19	2.57E+01
3	6.22E+00	-0.532296549	3	3.79E+00
9	8.81E-07	3	9	4.87E-10
8	2.23E+00	0.755044548	8	1.14E-02
11	5.79E-02	0.370865363	11	7.45E-02
57	1.29E-15	0.074559571	57	2.74E+00

14	6.44E-07	0.307173562	14	9.02E-02
29	4.17E-05	0.085055677	29	9.90E-01
17	2.65E-02	0.087722525	17	7.20E-01
17	1.30E-01	0.8323512	17	2.35E-04
12	2.06E-01	-0.03372492	12	1.71E+00
8	1.31E+01	0.046007745	8	7.50E-01
15	3.46E+01	0.115079244	15	5.27E-01
10	3.27E-02	0.220396907	10	2.43E-01
3	3.38E-02	-0.325718071	3	1.96E+00
12	4.34E+00	-0.775050163	12	6.79E+02
3	6.42E-01	-0.087618459	3	9.16E-01
6	1.70E+00	-0.00827671	6	8.90E-01
4	9.30E-01	0.356100587	4	1.97E-01
7	2.13E+00	0.360812343	7	1.33E-01
5	5.20E-01	0.128410851	5	4.60E-01
9	9.38E-01	-0.353201178	9	1.03E+01
3	5.87E-01	-0.091021482	3	9.26E-01
7	2.49E+00	0.060177877	7	6.65E-01
12	3.00E-02	-0.343577273	12	2.09E+01
5	2.91E-03	-1	5	6.87E+01
7	1.67E+00	0.695647973	7	2.20E-02
9	2.83E-02	-0.243926341	9	5.09E+00
9	1.01E+02	0.527466333	9	3.53E-02
5	1.52E+00	-0.030886537	5	9.10E-01
5	1.86E-01	0.707313433	5	3.87E-02
8	1.23E-01	1	8	1.48E-03
2	7.39E-02	-0.194856255	2	1.08E+00
9	3.23E-01	-0.455645627	9	1.99E+01
5	1.05E+00	0.097308461	5	5.26E-01
13	2.22E+02	-0.397076696	13	4.28E+01
18	4.56E-01	-0.32383592	18	7.78E+01
12	1.08E+02	-0.63431275	12	2.18E+02
22	2.56E+00	-0.53940003	22	3.81E+03
5	5.92E-01	-0.317032908	5	3.09E+00
2	2.01E-02	-0.101003558	2	8.44E-01
24	6.77E-05	-0.516595524	24	5.65E+03
10	5.35E+01	-0.358284774	10	1.38E+01
7	8.49E+01	-0.027203054	7	1.06E+00
6	1.24E+00	-0.430765863	6	6.81E+00
9	1.12E+01	0.472363082	9	5.03E-02
8	4.93E-01	0.065193379	8	6.70E-01
9	4.60E-01	-0.097087959	9	1.97E+00
5	1.24E-01	-0.554699226	5	8.54E+00
3	3.11E+00	-2	3	9.54E+01
3	4.43E-03	0.642033536	3	8.93E-02
9	4.72E-03	0.5577963	9	2.90E-02
43	1.88E+04	-0.451683892	43	8.74E+05

4	6.79E-01	-0.229737981	4	1.75E+00
5	2.28E-01	0.127554575	5	4.62E-01
42	3.18E+01	-0.000991154	42	1.10E+01
49	1.78E-06	-1	49	3.05E+16
2	1.31E+01	-0.069857848	2	7.77E-01
13	1.16E+01	0.238768406	13	1.79E-01
2	2.64E-01	0.427470342	2	2.08E-01
18	1.05E+02	-0.396015123	18	1.76E+02
7	2.26E+02	-2	7	2.46E+04
8	5.57E+02	-1	8	5.27E+02
4	4.87E+00	-0.255183874	4	1.93E+00
7	1.49E+00	-0.059677738	7	1.26E+00
6	2.89E+01	-0.608352944	6	1.60E+01
9	4.03E+03	-0.333480307	9	9.06E+00
6	4.62E+00	-0.4722119	6	8.32E+00
14	7.06E-03	-0.891236325	14	5.25E+03
6	1.85E+01	-0.319864767	6	3.99E+00
16	3.88E+01	-0.327760425	16	4.95E+01
4	7.78E-03	-0.365340301	4	2.91E+00
4	1.64E-01	0.217501318	4	3.30E-01
12	2.74E-01	-0.041557538	12	1.82E+00
9	9.26E-01	0.401897125	9	7.92E-02
8	1.51E-01	-0.432910426	8	1.27E+01
20	9.07E-05	1	20	1.73E-07
1	1.30E-02	2	1	5.59E-03
2	4.32E-01	0.123226712	2	4.66E-01
6	1.46E-03	-0.089546469	6	1.32E+00
7	1.16E-02	0.028761017	7	7.87E-01
3	4.94E-02	-0.684157813	3	6.15E+00
5	4.99E-04	0.791616705	5	2.70E-02
36	7.19E-15	0.287096272	36	1.66E-02
5	1.07E-01	-0.389037481	5	4.21E+00
4	2.93E-01	-0.01776618	4	7.94E-01
9	5.12E+00	0.476112998	9	4.91E-02
4	1.07E+01	-0.352026318	4	2.77E+00
18	1.55E+02	-0.276005784	18	4.53E+01
3	8.21E-01	-0.36070458	3	2.19E+00
26	2.48E+06	-0.79918383	26	9.51E+05
5	4.74E+02	-2	5	1.15E+03
4	4.47E-03	-0.590092276	4	6.73E+00
4	9.39E+00	-0.278460909	4	2.10E+00
3	8.79E+00	-0.012567916	3	7.21E-01
2	7.51E-01	0	2	6.46E-01
23	4.67E+01	-0.27538592	23	1.35E+02
3	1.01E+00	0.238759269	3	3.23E-01
5	4.70E-02	-0.544676547	5	8.18E+00
1	5.36E-01	-0.062718248	1	6.87E-01

5	2.68E-01	0.158315482	5	4.05E-01
5	3.42E+00	0.751286868	5	3.21E-02
5	2.47E+04	-0.44924169	5	5.44E+00
6	1.36E+03	-0.715268353	6	2.68E+01
7	9.21E+02	-0.111022887	7	1.66E+00
4	1.81E+00	0.125722635	4	4.65E-01
3	5.31E+00	-0.768142766	3	8.04E+00
6	5.95E-01	-0.686843351	6	2.34E+01
5	7.86E-02	1	5	6.87E-03
6	7.55E-01	-0.266858957	6	3.09E+00
4	3.00E-01	-0.703409379	4	1.03E+01
7	1.14E+00	-0.458912121	7	1.07E+01
9	1.65E-05	-0.095830096	9	1.96E+00
3	5.76E-03	-0.241755803	3	1.50E+00
5	3.35E-02	-0.239994343	5	2.22E+00
14	7.15E+02	-0.364300516	14	4.21E+01
9	4.17E+01	-0.129517505	9	2.43E+00
14	3.82E+01	-0.440175354	14	8.44E+01
7	1.33E+01	0.438187503	7	8.76E-02
4	3.57E-01	0.387920082	4	1.75E-01
26	9.42E-05	0.381924938	26	8.81E-03
31	1.12E-10	0.531808232	31	2.83E-04
21	2.31E-08	0.795767522	21	8.21E-05
29	1.01E+00	0.053334963	29	1.71E+00
7	1.14E+00	0.106487992	7	5.19E-01
21	3.74E-01	-0.267560998	21	7.85E+01
5	2.54E+00	0.248118242	5	2.76E-01
20	4.11E-03	-0.132804699	20	1.19E+01
24	1.56E-03	0.651655713	24	2.27E-04
7	1.76E-01	0.632048124	7	3.10E-02
3	5.05E-01	-0.510063612	3	3.53E+00
4	1.03E+00	-0.088564245	4	1.03E+00
8	2.07E-01	1	8	1.76E-03
9	1.84E-03	-0.190511901	9	3.60E+00
5	2.35E+00	0.127325084	5	4.63E-01
5	3.94E+00	-0.568560375	5	9.06E+00
5	1.04E+00	-0.019523499	5	8.67E-01
4	3.01E+01	-2	4	2.24E+02
4	1.37E+00	-0.200388697	4	1.57E+00
8	6.04E-02	0.400511889	8	9.26E-02
6	1.84E-02	-0.084325166	6	1.28E+00
5	9.61E-02	-0.231759069	5	2.15E+00
2	4.85E-01	-0.011779327	2	6.66E-01
22	2.42E-04	-0.348138664	22	2.89E+02
6	1.45E-02	-0.343058381	6	4.47E+00
6	6.82E+00	0.749504086	6	2.31E-02
5	8.52E-01	0.65479897	5	4.85E-02

23	7.65E-13	1	23	3.18E-08
15	6.65E-10	2	15	1.58E-07
3	1.88E-01	0.132109573	3	4.54E-01
24	3.35E-09	0.497423786	24	2.15E-03
2	9.83E-01	1	2	3.43E-02
3	2.13E+00	0.102692299	3	4.99E-01
5	3.08E+01	-1	5	1.56E+02
61	4.09E+14	-0.534042225	61	4.41E+09
4	1.31E+02	-0.989091555	4	2.98E+01
3	7.98E+00	-0.364482403	3	2.22E+00
4	1.72E+00	-1	4	4.58E+01
5	3.61E-01	-0.236798318	5	2.19E+00
3	9.07E-02	0.336161638	3	2.37E-01
5	6.18E-01	-0.221743052	5	2.06E+00
3	1.78E-01	-0.315026259	3	1.89E+00
3	3.89E-02	-0.007431975	3	7.09E-01
32	7.15E-07	0.191948962	32	1.41E-01
6	2.74E-02	0.331588433	6	1.73E-01
7	2.57E-02	0.092786592	7	5.58E-01
4	1.46E-03	-0.326953831	4	2.52E+00
3	2.07E-01	-0.423827789	3	2.68E+00
7	7.04E+01	-0.479695305	7	1.20E+01
2	5.40E-01	0	2	6.46E-01
41	1.05E-03	0.322626181	41	4.64E-03
5	8.04E-01	-0.115145072	5	1.30E+00
2	4.93E-01	-0.303030541	2	1.44E+00
26	3.37E-03	-0.068366823	26	1.02E+01
15	1.73E-02	0.034658616	15	1.15E+00
7	8.43E-01	-0.607342392	7	2.38E+01
1	5.36E-01	0	1	6.02E-01
4	6.24E-01	-0.015998995	4	7.89E-01
8	1.98E+00	-0.252767965	8	4.38E+00
4	7.79E-01	-0.209712601	4	1.63E+00
7	1.33E+00	-0.056040744	7	1.24E+00
5	6.84E-01	-0.186436382	5	1.77E+00
1	4.31E-01	0.033206874	1	5.61E-01
1	4.31E-01	0.033206874	1	5.61E-01
3	4.64E-01	0.023858187	3	6.42E-01
5	3.11E-01	0.146663987	5	4.26E-01
8	2.76E+02	1	8	5.04E-04
8	5.97E+03	-2	8	1.17E+04
13	5.07E+01	-0.208569136	13	8.43E+00
3	1.06E+00	0.649061319	3	8.73E-02
3	6.28E-01	0.537704038	3	1.25E-01
7	1.75E-01	-0.051998661	7	1.21E+00
5	1.56E-03	0.125619042	5	4.66E-01
4	7.26E-02	-0.200645796	4	1.57E+00

2	9.15E-01	-0.326850425	2	1.53E+00
9	8.54E-03	0.027786185	9	8.83E-01
11	1.99E-02	2	11	3.76E-07
4	4.05E-03	0.978238233	4	1.93E-02
7	1.06E-02	0.172468889	7	3.64E-01
30	2.11E-07	1	30	3.28E-08
6	7.85E+00	-0.722024435	6	2.77E+01
32	1.50E-10	0.073146453	32	1.33E+00
3	3.87E-01	-0.926787022	3	1.33E+01
11	3.07E-06	-0.648138575	11	1.60E+02
5	1.88E-03	-0.582406471	5	9.62E+00
5	5.26E-01	0.25409623	5	2.69E-01
9	1.14E+00	0.744802919	9	8.69E-03
9	3.11E+01	0.521318286	9	3.67E-02
13	1.87E+02	0.708822826	13	3.12E-03
9	6.53E+01	0.731460446	9	9.48E-03
4	6.05E-01	-0.011413879	4	7.76E-01
4	9.48E-01	-0.503739067	4	4.87E+00
5	6.09E-01	-0.086969292	5	1.16E+00
1	4.89E-01	0.018834396	1	5.79E-01
2	2.63E-01	-0.005423311	2	6.55E-01
9	6.41E-07	0.028519671	9	8.79E-01
16	1.67E+00	-0.09900664	16	4.76E+00
15	9.31E+00	0.932598259	15	1.90E-04
9	1.11E+02	-0.628065524	9	6.05E+01
12	7.08E-01	0.629802917	12	8.09E-03
13	3.40E+00	0.670673711	13	4.34E-03
12	1.97E-02	0.000810318	12	1.30E+00
6	3.84E+00	-0.097001196	6	1.36E+00
15	7.62E+01	-0.201395479	15	1.13E+01
7	9.19E-01	-0.186129329	7	2.49E+00
5	6.69E-01	-0.006906434	5	8.21E-01
13	7.61E-02	-0.834469173	13	1.85E+03
16	5.80E+01	-0.563077324	16	5.51E+02
12	1.36E-01	-0.830057928	12	1.06E+03
11	1.35E-04	0.301545082	11	1.26E-01
3	2.48E+00	-0.421211779	3	2.66E+00
5	9.56E+00	-0.654943114	5	1.31E+01
3	7.10E-01	-0.035850225	3	7.77E-01
30	1.78E+00	2	30	5.66E-12
6	1.60E+01	1	6	2.71E-03
5	3.24E+01	1	5	4.92E-03
12	1.75E+02	0.303893178	12	1.12E-01
8	2.52E+00	-0.206803155	8	3.34E+00
7	2.04E+00	-0.145489342	7	2.00E+00
5	4.02E-01	0.15108717	5	4.18E-01
4	6.14E-01	0	4	7.43E-01

6	8.46E-01	0.597996871	6	4.80E-02
6	4.89E+00	0.017598487	6	7.86E-01
7	1.61E+00	0.446477815	7	8.38E-02
23	1.98E-03	0.80566732	23	3.47E-05
2	2.08E-01	0.262678581	2	3.22E-01
3	8.69E-01	-0.07026113	3	8.67E-01
2	7.26E-01	-0.2563537	2	1.27E+00
5	2.52E-02	-0.00234574	5	8.05E-01
18	3.08E-01	-0.214189824	18	2.25E+01
6	1.26E-02	-0.265633287	6	3.08E+00
4	1.68E+00	0.10762773	4	4.97E-01
8	2.58E+00	1	8	1.29E-03
3	1.87E-01	0.151305281	3	4.27E-01
8	2.20E+00	-0.600961446	8	3.42E+01
14	3.92E-03	0.238621891	14	1.69E-01
29	3.46E-03	-0.168127876	29	7.88E+01
9	2.30E+00	-0.028566558	9	1.27E+00
2	1.26E+02	0.200763493	2	3.79E-01
7	2.64E+02	-0.768218024	7	5.63E+01
4	1.06E+00	-0.345130355	4	2.70E+00
4	2.42E+00	-0.404641991	4	3.37E+00
6	1.12E-02	-0.228365418	6	2.57E+00
17	1.83E-19	0.373105023	17	3.32E-02
11	7.36E-04	0.574051382	11	1.61E-02
7	2.75E-02	0.547625537	7	4.87E-02
6	8.11E-01	0.059074212	6	6.43E-01
52	2.03E-01	-0.088550264	52	3.02E+02
3	4.92E-01	-0.362159761	3	2.20E+00
4	1.62E-01	0.007261216	4	7.23E-01
6	5.39E-02	0.537498472	6	6.42E-02
24	5.30E-10	0.909680317	24	5.28E-06
11	8.73E-06	2	11	1.39E-06
5	3.54E-03	2	5	1.13E-03
1	1.73E-01	2	1	9.93E-03
14	1.31E-02	0.036908497	14	1.07E+00
4	3.61E-04	-0.244160903	4	1.85E+00
18	1.67E-06	0.013796009	18	1.70E+00
28	5.23E+01	0.48161839	28	1.26E-03
4	6.25E-01	-0.069369611	4	9.63E-01
6	1.37E-01	-0.145622741	6	1.73E+00
6	1.25E+00	-0.62192933	6	1.71E+01
30	2.01E-07	-0.101922062	30	2.84E+01
18	7.23E-01	-0.580941534	18	1.43E+03
26	4.68E-05	2	26	5.19E-17
3	3.26E-03	0.266331579	3	2.96E-01
8	1.77E-02	1	8	6.85E-04
9	1.73E+00	0.491049227	9	4.46E-02

47	2.16E+06	-0.528697146	47	2.48E+07
63	1.42E+00	-0.402397204	63	8.21E+07
16	5.29E-02	-0.084101546	16	4.09E+00
6	1.74E-01	0.509475563	6	7.35E-02
10	1.29E-01	-0.284946299	10	8.29E+00
6	5.23E-01	0.263551513	6	2.40E-01
10	1.66E-01	0.718987819	10	7.46E-03
3	5.42E-01	-0.081932148	3	9.00E-01
8	1.25E+04	-0.464762545	8	1.53E+01
10	3.57E+06	-0.550986233	10	5.32E+01
10	1.46E+00	0.175561423	10	3.32E-01
2	2.31E-01	0.287281085	2	3.02E-01
9	8.95E+00	0.212936781	9	2.68E-01
11	1.09E-01	0.282646378	11	1.45E-01
2	5.64E-01	0	2	6.46E-01
12	5.20E+02	-0.214445539	12	7.36E+00
4	1.07E+00	-0.149604979	4	1.30E+00
11	1.95E-01	0.270989021	11	1.58E-01
51	5.61E-02	-0.236238224	51	2.01E+04
1	1.27E-01	1	1	6.47E-02
3	6.54E-01	-0.554629042	3	4.07E+00
12	6.38E-01	-0.684520677	12	3.27E+02
5	7.07E-02	0.342721625	5	1.84E-01
3	4.51E-01	-0.096222009	3	9.42E-01
5	3.08E-01	0.238660732	5	2.87E-01
12	1.05E-01	0.523915705	12	1.90E-02
5	5.19E-01	-0.159108132	5	1.57E+00
5	2.16E-01	-0.089135702	5	1.17E+00
5	1.47E+00	0.127370704	5	4.63E-01
17	1.19E+09	0.700711908	17	9.70E-04
3	5.70E-01	0.041592965	3	6.07E-01
8	2.92E-01	0.733969845	8	1.29E-02
10	4.97E-01	0.599436744	10	1.72E-02
7	3.11E-02	-0.788263364	7	6.27E+01
7	9.44E-01	0.015410543	7	8.45E-01
10	6.40E-01	-0.648149513	10	1.05E+02
18	5.66E-03	-0.220918993	18	2.43E+01
12	1.56E+00	1	12	9.16E-06
4	7.62E-01	-0.413887065	4	3.48E+00
7	6.89E-01	-0.769794095	7	5.68E+01
2	6.95E-01	-0.941326218	2	7.82E+00
9	4.99E+01	-0.040482754	9	1.37E+00
38	8.33E+06	0.029116776	38	4.25E+00
12	5.61E+03	2	12	4.65E-09
6	4.29E+00	0.473705298	6	8.73E-02
19	6.23E-02	-0.442900325	19	4.09E+02
6	1.05E-01	0.424082277	6	1.11E-01

4	9.31E-02	0.566955164	4	8.95E-02
8	3.62E-02	0.649463705	8	2.13E-02
2	4.76E-01	-0.21093749	2	1.13E+00
2	4.57E+00	-0.423331442	2	1.98E+00
5	1.91E+01	0.358983053	5	1.72E-01
4	7.12E-01	-0.193295447	4	1.53E+00
5	6.80E+00	-0.202685409	5	1.90E+00
3	9.46E-01	-0.481317497	3	3.22E+00
5	9.74E+00	-0.463819369	5	5.79E+00
5	8.52E-01	-0.720891797	5	1.74E+01
7	3.03E+00	-0.41693718	7	8.57E+00
12	1.90E+00	-0.229108073	12	8.29E+00
7	4.70E-01	-0.315175716	7	4.97E+00
2	4.16E-01	-0.073773431	2	7.85E-01
10	3.07E+01	0.124646194	10	4.74E-01
5	6.09E-01	-0.104322503	5	1.25E+00
2	3.64E-01	0.04366736	2	5.75E-01
6	1.80E-02	0.258527432	6	2.46E-01
3	1.13E-01	0.099809866	3	5.04E-01
12	5.76E-02	0.313387939	12	1.04E-01
8	3.26E-01	0.73368565	8	1.30E-02
2	3.29E-01	-0.020228886	2	6.81E-01
14	2.77E-02	-0.356234821	14	3.91E+01
5	2.13E-01	-0.184379392	5	1.75E+00
7	2.70E+00	0.394926961	7	1.11E-01
9	2.03E+01	-0.145280636	9	2.69E+00
9	1.33E+02	-0.209351971	9	4.07E+00
21	3.88E-01	0.036734348	21	1.53E+00
5	1.71E+00	-0.084350103	5	1.14E+00
49	4.03E+01	-0.660288295	49	2.05E+09
1	2.89E-01	-0.438387034	1	1.52E+00
13	4.36E+00	-0.436331498	13	6.00E+01
12	5.30E-03	0.512188782	12	2.09E-02
8	2.21E-03	2	8	7.04E-05
16	9.15E-05	0.490689343	16	1.14E-02
5	1.29E-01	0.49098369	5	9.77E-02
10	9.76E-03	-0.019046669	10	1.29E+00
6	1.08E-01	0.552927459	6	5.96E-02
7	6.34E-03	0.280983466	7	2.04E-01
9	5.71E+01	-2	9	2.00E+04
5	1.36E+00	-0.559791088	5	8.73E+00
5	1.48E-02	0.958438667	5	1.32E-02
9	8.46E-05	0.852862448	9	4.33E-03
7	1.55E-01	-0.611615629	7	2.43E+01
5	5.31E+01	0.087415272	5	5.49E-01
6	3.30E+01	1	6	4.87E-03
7	4.91E+00	-0.212623184	7	2.87E+00

1	1.01E+00	-0.947874018	1	4.43E+00
1	5.36E-01	-0.033937764	1	6.47E-01
1	5.36E-01	-0.033937764	1	6.47E-01
2	7.57E-01	-0.462828352	2	2.20E+00
5	1.58E-01	0.193434399	5	3.49E-01
7	2.22E-01	-0.120249711	7	1.75E+00
9	1.03E+01	-0.450414928	9	1.92E+01
8	7.88E+00	-0.420734367	8	1.18E+01
2	1.08E+00	-0.194796384	2	1.08E+00
5	5.12E+00	-0.235825604	5	2.19E+00
4	7.43E-01	-0.29449298	4	2.23E+00
3	6.82E-02	0.60133638	3	1.02E-01
3	1.62E-01	0.41336188	3	1.85E-01
17	1.08E-03	0.803066285	17	3.22E-04
6	8.72E-01	0.984581051	6	7.45E-03
5	2.08E-01	-0.128915795	5	1.38E+00
14	6.53E-02	0.012711427	14	1.34E+00
13	4.45E+00	-0.288375431	13	1.68E+01
27	2.25E+04	-0.438683306	27	4.57E+03
19	6.82E-03	1	19	1.04E-07
17	4.39E-03	0.385843036	17	2.89E-02
37	1.78E+06	2	37	7.32E-15
12	2.62E+01	-0.475986353	12	6.08E+01
7	1.26E+01	-0.745643474	7	4.99E+01
18	2.85E+02	-0.277012487	18	4.58E+01
11	6.43E-03	-0.500539148	11	5.26E+01
48	8.66E+00	-0.489215746	48	1.19E+07
23	1.63E+02	-0.41535177	23	9.61E+02
4	6.24E-01	-0.017068762	4	7.92E-01
5	1.09E-01	0.178668623	5	3.71E-01
9	4.26E-02	-0.206692347	9	4.00E+00
21	1.58E+07	2	21	1.65E-10
10	3.01E+00	-0.168530509	10	3.68E+00
5	2.31E+01	0.198554941	5	3.41E-01
12	7.40E+01	0.273453749	12	1.43E-01
1	5.69E-01	0.022928079	1	5.74E-01
7	1.56E+00	-0.659425187	7	3.15E+01
8	1.39E+00	0.584206074	8	3.13E-02
7	2.49E+01	0.394304462	7	1.11E-01
7	6.40E+00	0.399514075	7	1.08E-01
7	1.19E+00	0.501654137	7	6.24E-02
5	1.14E-01	0.121655127	5	4.74E-01
5	5.61E-01	-0.110410114	5	1.28E+00
7	1.46E-01	-0.330227839	7	5.39E+00
4	8.36E-01	-0.327259598	4	2.52E+00
6	5.20E+00	0.302279392	6	1.99E-01
8	1.59E+00	1	8	3.15E-04

4	5.65E-01	0.340148792	4	2.09E-01
8	2.18E+00	0.330193872	8	1.40E-01
10	1.77E-03	0.682428115	10	9.63E-03
30	8.11E-03	0.16525085	30	2.43E-01
8	3.24E+00	-0.060526564	8	1.41E+00
21	1.27E-01	0.445658418	21	7.65E-03
20	7.73E+02	-0.359417192	20	1.98E+02
7	5.83E+00	-0.075770504	7	1.38E+00
10	7.44E+01	-0.775499431	10	2.55E+02
21	9.42E+00	0.738743753	21	1.72E-04
8	9.67E-02	0.454592769	8	6.73E-02
6	4.55E-01	-0.201688962	6	2.26E+00
9	2.02E+00	-0.841938494	9	2.40E+02
8	3.39E+00	-0.129573856	8	2.12E+00
2	1.16E+00	-0.143485325	2	9.44E-01
1	5.46E-01	-0.019893921	1	6.28E-01
4	1.29E+00	-0.320761838	4	2.46E+00
2	5.64E-01	0	2	6.46E-01
3	5.93E-01	-0.008690077	3	7.12E-01
1	5.50E-01	-0.056127374	1	6.77E-01
16	9.22E+03	-0.71109212	16	2.51E+03
6	2.12E+02	-1	6	2.96E+02
5	8.41E+00	-1	5	2.43E+02
3	1.20E+00	-0.179320571	3	1.23E+00
5	8.90E-01	-0.128381971	5	1.38E+00
6	3.92E+00	-0.266427582	6	3.09E+00
9	7.68E-01	0.140693271	9	4.27E-01
11	1.06E+02	0.532145916	11	2.21E-02
4	4.27E+00	-0.462392622	4	4.18E+00
5	4.05E-01	0.040515863	5	6.70E-01
6	1.95E-01	-0.082488111	6	1.27E+00
8	1.21E+01	0.123569863	8	4.75E-01
3	2.09E+00	0.304937719	3	2.62E-01
3	6.42E-01	1	3	8.82E-03
16	1.79E-03	2	16	3.10E-08
8	1.63E+00	0.929472415	8	4.08E-03
6	1.14E+00	0.17582386	6	3.67E-01
2	5.56E-01	-0.018179286	2	6.78E-01
4	1.45E+00	-0.380113597	4	3.07E+00
5	3.60E-01	0.06160166	5	6.13E-01
6	2.88E-01	0.293151776	6	2.08E-01
8	2.64E-01	0.493224375	8	5.36E-02
14	3.01E-01	-0.605272058	14	3.83E+02
7	4.49E+03	-0.969207233	7	1.65E+02
3	1.14E+00	0.034809585	3	6.20E-01
5	6.85E-01	-0.658057151	5	1.33E+01
8	2.05E+00	-0.885442687	8	1.83E+02

6	8.30E-01	-0.429162422	6	6.76E+00
6	2.78E+00	-0.574085152	6	1.36E+01
4	6.24E-01	-0.004049728	4	7.55E-01
10	4.13E+01	-0.309800114	10	9.87E+00
7	1.10E+00	-0.06214144	7	1.28E+00
6	5.15E+00	-0.096248243	6	1.36E+00
5	1.54E+01	-0.63879107	5	1.22E+01
6	9.95E-01	-0.14830179	6	1.75E+00
3	4.95E-01	-0.049742237	3	8.12E-01
2	1.14E+00	-0.598511538	2	3.15E+00
5	3.40E-02	0.187858017	5	3.57E-01
7	1.68E+00	-0.250478921	7	3.51E+00
14	3.42E+05	-0.743403816	14	1.36E+03
4	4.27E-01	-0.247494427	4	1.87E+00
6	3.90E-01	0.241881785	6	2.67E-01
2	5.41E-01	0	2	6.46E-01
2	7.07E-01	2.44E-05	2	6.46E-01
25	1.79E+00	0.014269043	25	2.62E+00
6	5.61E-01	-0.029629875	6	9.87E-01
7	6.59E+01	-0.309849259	7	4.83E+00
5	1.30E-01	-0.785473795	5	2.29E+01
66	8.92E-15	0.720711375	66	1.18E-10
6	1.70E-04	2	6	1.21E-04
13	2.90E-06	2	13	2.57E-08
3	1.01E+00	-0.001480646	3	6.96E-01
2	5.27E-01	-0.190260892	2	1.07E+00
4	6.26E-01	-0.332630333	4	2.57E+00
1	5.36E-01	-0.28943181	1	1.11E+00
2	5.64E-01	-0.070072538	2	7.77E-01
2	7.41E-01	-0.287447765	2	1.38E+00
2	7.54E-01	-0.135275203	2	9.24E-01
7	2.37E+01	-1	7	5.88E+02
2	1.55E-01	0.522149776	2	1.62E-01
13	1.07E-02	0.306633006	13	9.97E-02
7	5.43E-01	0	7	9.18E-01
7	7.49E-01	0	7	9.18E-01
21	7.94E-01	-0.050371124	21	4.71E+00
17	1.72E+02	-0.231109843	17	2.24E+01
5	4.53E-01	0.006948719	5	7.74E-01
9	1.88E+01	-0.1935487	9	3.68E+00
2	5.79E-01	0.159214622	2	4.24E-01
5	1.26E+00	-0.307948419	5	2.97E+00
2	6.28E-01	0	2	6.46E-01
3	2.05E+00	-0.188678422	3	1.26E+00
6	4.53E-01	0.095333633	6	5.40E-01
2	1.57E+00	1	2	3.66E-02
6	1.67E-02	0.217012662	6	3.01E-01

6	1.69E-01	-0.644121097	6	1.90E+01
3	5.79E-02	-0.911645845	3	1.27E+01
6	4.49E+00	-0.342518633	6	4.45E+00
4	2.29E-01	-0.219921552	4	1.69E+00
3	1.23E-01	-0.026140802	3	7.53E-01
3	6.33E-01	-0.622525666	3	5.05E+00
50	3.80E+30	-1	50	1.74E+17
15	5.41E+02	-0.723442583	15	1.79E+03
6	1.08E-02	0.341045905	6	1.65E-01
73	6.10E-12	0.465936362	73	4.48E-07
1	1.86E-01	-0.35224335	1	1.26E+00
12	6.22E-02	-0.555086595	12	1.15E+02
6	4.25E+01	0.303595691	6	1.98E-01
15	1.56E+02	1	15	5.40E-05
6	3.56E+00	-0.651303874	6	1.97E+01
9	2.98E+01	-0.264251541	9	5.80E+00
5	3.37E+00	0.137155715	5	4.44E-01
7	1.06E+00	0.21647226	7	2.88E-01
9	6.07E+00	0.320081642	9	1.34E-01
25	1.66E-01	-0.503214452	25	6.55E+03
7	4.59E-02	-0.48473755	7	1.23E+01
6	1.25E+00	-0.125263767	6	1.56E+00
8	8.05E-01	-0.299408778	8	5.76E+00
25	7.55E-02	-0.023785263	25	4.66E+00
17	2.53E-02	0.887615161	17	1.29E-04
6	1.04E+00	-0.297012334	6	3.58E+00
6	2.88E+00	-0.301620745	6	3.66E+00
5	2.35E+01	-0.758429005	5	2.04E+01
31	2.18E-02	-0.522282668	31	7.28E+04
14	1.26E+00	-0.11159939	14	4.17E+00
7	3.13E+01	-0.631392605	7	2.71E+01
6	6.91E-01	0	6	8.55E-01
1	5.36E-01	-0.011009864	1	6.16E-01
1	5.36E-01	-0.011009864	1	6.16E-01
4	6.42E-01	0.080041716	4	5.51E-01
2	5.64E-01	0	2	6.46E-01
3	7.43E-01	0	3	6.93E-01
9	2.66E+00	-0.134969842	9	2.52E+00
6	2.24E+00	-0.619769537	6	1.69E+01
3	1.63E+00	0.390459221	3	1.99E-01
4	5.33E-01	0.43281669	4	1.48E-01
4	8.76E-01	-0.142267294	4	1.26E+00
3	8.42E+00	-0.986839908	3	1.62E+01
11	1.74E+06	-0.151784645	11	3.81E+00
6	1.34E+02	-1	6	2.90E+02
2	1.17E+00	-0.113290275	2	8.72E-01
10	5.58E+01	-0.381109867	10	1.62E+01

10	2.23E+01	-0.48367172	10	3.32E+01
6	5.47E+03	-2	6	3.59E+03
3	1.20E+00	-0.517849758	3	3.62E+00
10	1.89E+01	-0.170508954	10	3.73E+00
3	7.75E-01	0.117689598	3	4.76E-01
2	5.18E-01	-0.022015592	2	6.85E-01
2	4.95E-01	-0.949063651	2	7.98E+00
4	1.61E+00	-0.2729208	4	2.06E+00
14	2.25E+01	0.917387313	14	3.38E-04
2	5.64E-01	0.629085343	2	1.22E-01
2	7.41E-01	0	2	6.46E-01
2	7.40E-01	0.011871496	2	6.26E-01
4	4.32E+00	0.293198136	4	2.49E-01
7	6.20E+02	-0.756541746	7	5.29E+01
1	5.53E-01	-0.019893921	1	6.28E-01
5	1.09E-02	-1	5	6.83E+01
4	1.14E+00	-0.036529362	4	8.52E-01
5	1.20E-01	0.477552523	5	1.03E-01
6	1.00E-02	-0.048335303	6	1.08E+00
2	2.46E-01	0.008334342	2	6.32E-01
4	4.81E-01	-0.395465993	4	3.25E+00
5	1.17E+00	-0.342454686	5	3.45E+00
3	4.44E-01	-0.086749475	3	9.14E-01
5	5.04E-01	-0.773511141	5	2.18E+01
5	8.37E-01	-0.518976668	5	7.33E+00
3	3.92E-01	-0.027824591	3	7.57E-01
4	1.49E+00	0	4	7.43E-01
13	2.50E+01	-0.385480423	13	3.87E+01
32	7.19E-14	0.687909667	32	1.19E-05
17	7.78E-05	3	17	7.84E-13
14	1.70E+01	2	14	8.42E-07
7	1.64E-01	-0.904601667	7	1.17E+02
4	8.57E-01	0.167861791	4	3.97E-01
12	3.61E+01	-0.125480381	12	3.59E+00
9	4.90E-01	0.058459804	9	7.25E-01
5	3.97E+00	-0.560199741	5	8.75E+00
3	4.45E-01	-0.490127322	3	3.31E+00
1	5.52E-01	-0.304776211	1	1.14E+00
6	1.58E-01	1	6	4.79E-03
17	9.66E-02	1	17	2.32E-06
3	9.24E-01	1	3	8.84E-03
6	6.47E-01	0.897729197	6	1.13E-02
8	5.31E-03	0.216269366	8	2.75E-01
3	1.28E-01	-0.103798315	3	9.65E-01
7	3.03E-04	0.390879023	7	1.13E-01
5	4.51E+00	0.079112438	5	5.68E-01
7	1.09E+00	0.43911521	7	8.72E-02

9	1.38E-01	-0.518698406	9	2.99E+01
8	7.69E-01	-0.170577071	8	2.69E+00
19	2.16E-01	-0.047812929	19	3.76E+00
10	9.30E+00	2	10	7.12E-06
11	1.13E+00	0.232268147	11	2.12E-01
13	2.02E-01	0.774471978	13	1.77E-03
16	2.67E-01	-0.055505262	16	3.05E+00
13	2.33E+00	-0.115818616	13	3.79E+00
5	1.42E+01	-0.886689707	5	3.53E+01
3	4.15E+00	0.544373209	3	1.22E-01
2	8.48E-02	-0.901674119	2	7.04E+00
4	9.11E-01	-0.333758985	4	2.58E+00
13	7.79E+02	0.792328148	13	1.52E-03
6	6.71E+02	0.434886518	6	1.05E-01
6	3.58E+00	1	6	6.82E-04
9	3.08E+03	-0.03485189	9	1.32E+00
10	8.38E+01	0.278861834	10	1.61E-01
6	5.24E+01	1	6	5.66E-03
1	5.77E-01	0.153327125	1	4.36E-01
13	3.26E+03	2	13	1.13E-06
3	4.80E+00	1	3	8.90E-03
2	1.36E+00	-2	2	9.86E+01
7	3.55E+01	0.527107401	7	5.44E-02
3	1.18E+00	-0.10381546	3	9.65E-01
25	1.97E+02	-0.371438012	25	8.93E+02
4	6.13E-02	-0.225210646	4	1.72E+00
6	1.07E-02	-0.140053889	6	1.68E+00
9	1.25E-05	0.714679397	9	1.06E-02
1	2.80E-02	2	1	2.13E-02
1	3.42E-01	0.164215708	1	4.26E-01
8	2.58E-04	0.259906534	8	2.12E-01
30	1.69E-02	-0.223828606	30	2.50E+02
9	5.08E-01	-0.536891245	9	3.36E+01
14	1.40E-01	2	14	6.24E-08
18	8.79E-01	0.294723284	18	7.06E-02
4	8.45E-01	-0.002809251	4	7.51E-01
11	1.51E+04	-1	11	2.84E+03
5	1.65E+00	-0.306794194	5	2.96E+00
9	4.61E+04	-0.683160599	9	8.62E+01
40	5.66E-03	-0.386193023	40	7.41E+04
12	1.04E+06	-0.930909601	12	2.39E+03
12	5.90E-01	3	12	9.24E-10
7	9.21E-03	0.484311127	7	6.84E-02
14	2.43E-03	0.169719851	14	3.17E-01
4	5.08E-01	0.643699042	4	6.72E-02
7	3.11E-01	0.37094131	7	1.26E-01
4	6.32E-01	-0.04248818	4	8.71E-01

27	4.86E-01	-0.263926856	27	2.69E+02
11	1.38E+01	-0.364247672	11	1.89E+01
7	3.89E+02	-1	7	1.55E+03
4	1.16E+00	1	4	1.73E-02
2	3.28E+00	0.195277585	2	3.85E-01
18	6.47E-04	0.083535641	18	7.72E-01
25	5.04E-05	0.278698161	25	4.81E-02
15	7.40E-01	-0.072901248	15	3.26E+00
7	9.85E-02	-0.165695074	7	2.23E+00
5	1.10E-01	-0.571306868	5	9.17E+00
5	7.36E+00	-0.519520458	5	7.35E+00
14	3.60E-05	0.573321543	14	7.88E-03
6	3.02E-02	-0.221891635	6	2.49E+00
16	1.31E-07	3	16	6.22E-13
3	2.71E-02	3	3	6.35E-05
9	1.47E-06	2	9	2.12E-05
17	8.65E-05	0.375268915	17	3.24E-02
23	1.01E-02	-0.23996156	23	8.20E+01
5	3.19E-01	0	5	7.97E-01
5	9.94E+00	0.73207451	5	3.49E-02
6	3.14E+00	-0.648324747	6	1.94E+01
7	2.02E+01	-0.553590148	7	1.78E+01
3	1.61E+00	0.113087023	3	4.83E-01
6	8.79E+03	-1	6	1.35E+02
5	3.24E+00	-0.594135603	5	1.01E+01
2	2.51E+00	-0.399815974	2	1.86E+00
3	1.10E+02	-2	3	5.49E+02
5	6.00E+00	-0.746875619	5	1.94E+01
7	8.05E-01	0.05899374	7	6.69E-01
3	4.63E-01	-0.118504985	3	1.01E+00
10	5.66E+00	-0.238762569	10	6.01E+00
12	4.52E+01	-0.404336017	12	3.41E+01
1	1.62E+00	-0.736801012	1	2.84E+00
18	1.94E+00	0.414283673	18	1.82E-02
10	1.87E+00	0.845754126	10	3.08E-03
5	5.95E-01	-0.03730336	5	9.35E-01
3	1.21E-01	-0.567350775	3	4.24E+00
9	2.30E-04	-0.416713664	9	1.55E+01
87	4.10E-06	-0.260853053	87	8.41E+07
14	1.52E+01	-1	14	3.20E+05
14	6.09E-02	0.076854281	14	7.43E-01
6	1.04E-01	-0.007523513	6	8.87E-01
64	4.23E-17	0.751863344	64	7.27E-11
17	1.99E-03	0.424044302	17	1.92E-02
16	3.54E-05	-0.046529519	16	2.78E+00
9	2.87E-03	-0.61257719	9	5.47E+01
4	3.02E-05	0.91553795	4	2.44E-02

7	1.12E-09	2	7	7.52E-06
1	1.52E-01	-0.092978146	1	7.32E-01
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0	2	6.46E-01
4	6.24E-01	0	4	7.43E-01
2	5.64E-01	0	2	6.46E-01
3	5.93E-01	0.30149393	3	2.65E-01
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0	2	6.46E-01
4	6.24E-01	0	4	7.43E-01
2	5.64E-01	0	2	6.46E-01
1	4.70E-01	-0.784098763	1	3.14E+00
9	4.79E-02	-0.379678736	9	1.22E+01
3	3.91E-01	-0.630102449	3	5.17E+00
11	3.13E-01	1	11	3.97E-04
6	1.75E-01	2	6	1.14E-05
61	3.52E+01	-0.309683608	61	1.86E+06
36	1.09E-04	0.094795991	36	9.55E-01
4	3.92E-01	0.118164554	4	4.78E-01
9	1.27E+01	0.26886324	9	1.87E-01
3	7.71E-01	0.05349695	3	5.84E-01
3	5.69E-01	-0.189892089	3	1.27E+00
10	6.01E-05	-0.106185017	10	2.38E+00
7	5.60E-01	-0.021912445	7	1.03E+00
1	6.46E-01	-0.273449307	1	1.07E+00
5	5.41E-01	-0.006955145	5	8.21E-01
2	5.64E-01	-0.047160627	2	7.32E-01
2	5.47E-01	-0.043483264	2	7.25E-01
2	3.59E-01	-0.185459217	2	1.06E+00
12	2.12E+01	-0.336017615	12	1.96E+01
4	4.15E-01	-0.240834612	4	1.83E+00
9	2.35E+00	-0.28961442	9	6.83E+00
12	2.34E-02	-0.428361504	12	4.14E+01
23	7.39E-03	-0.365028607	23	4.74E+02
6	7.75E-01	-0.85503566	6	5.26E+01
3	5.27E+00	-0.753349109	3	7.67E+00
8	1.47E+00	0.291251151	8	1.76E-01
6	1.59E+00	-0.242037233	6	2.75E+00
3	9.47E-03	1	3	1.11E-02
3	2.40E-04	3	3	2.76E-05
12	1.23E-05	3	12	3.17E-10
12	6.37E-08	0.259954789	12	1.60E-01
5	1.06E-03	0.582082092	5	6.62E-02
21	4.33E-08	-0.321880267	21	1.59E+02
9	3.16E-08	2	9	2.46E-06
6	1.86E-01	-0.125259689	6	1.56E+00
6	4.16E-01	0.654915143	6	3.65E-02

8	6.47E-01	-0.621052605	8	3.85E+01
9	1.51E+00	-0.163524818	9	3.03E+00
3	6.91E-01	-0.417353351	3	2.62E+00
7	1.44E+01	0.664150822	7	2.61E-02
49	1.58E-03	0.001322364	49	1.69E+01
7	1.98E+01	0.586337735	7	3.96E-02
4	8.65E-01	0.061754817	4	5.90E-01
1	1.55E+00	0.659252603	1	1.50E-01
22	4.67E-02	0.292212324	22	5.11E-02
4	3.54E-02	-0.31543285	4	2.41E+00
10	2.67E-01	0.254357177	10	1.92E-01
1	5.62E-01	0.024182435	1	5.72E-01
7	4.33E-01	0.400078243	7	1.07E-01
4	1.79E-02	0.934179427	4	2.27E-02
2	2.02E-02	0.869338944	2	6.46E-02
20	1.52E-02	-0.514057361	20	1.35E+03
10	1.25E-01	-0.499241575	10	3.71E+01
5	8.68E-01	0.689165973	5	4.19E-02
10	1.88E-03	0.710529963	10	7.91E-03
8	8.63E-01	-0.673518885	8	5.24E+01
3	2.86E+00	-0.839346007	3	1.01E+01
3	6.73E-02	-0.053186964	3	8.21E-01
1	1.27E-01	-0.040202678	1	6.55E-01
2	2.74E-01	0.077649505	2	5.26E-01
1	5.22E-01	-0.500741299	1	1.73E+00
3	1.62E+00	-0.095061077	3	9.38E-01
4	4.12E+00	-0.490072665	4	4.63E+00
4	7.61E-01	-0.128385391	4	1.20E+00
17	1.86E+01	-0.062664523	17	3.64E+00
8	3.81E-03	1	8	4.08E-04
4	8.23E-01	-0.936891705	4	2.46E+01
6	1.02E+00	-0.234494546	6	2.65E+00
1	5.36E-01	0	1	6.02E-01
2	6.06E-01	-0.068987801	2	7.75E-01
15	2.15E+05	-0.339571375	15	4.33E+01
11	1.42E+02	0.143345549	11	4.13E-01
6	4.32E+00	-0.773266632	6	3.55E+01
5	2.68E-01	-0.3951462	5	4.32E+00
6	2.50E-01	-0.004901346	6	8.76E-01
10	2.34E-03	0.077270563	10	6.60E-01
10	5.15E-01	0.020259268	10	9.83E-01
17	1.42E+03	0.602237411	17	2.81E-03
11	6.70E-02	-0.498597497	11	5.19E+01
2	1.04E+00	-0.433934884	2	2.04E+00
3	2.47E-01	-0.34677916	3	2.10E+00
2	3.85E-01	0	2	6.46E-01
6	2.03E-02	-0.132584969	6	1.62E+00

5	9.50E-01	-0.239786374	5	2.22E+00
4	1.16E+00	-0.078534344	4	9.96E-01
2	5.96E-01	0.018885793	2	6.14E-01
3	5.97E-01	0.006438344	3	6.79E-01
7	6.91E-02	1	7	2.26E-03
10	1.36E-03	0.900642855	10	2.10E-03
2	2.97E-03	1	2	1.80E-02
6	8.59E-01	2	6	4.36E-04
11	2.41E-03	0.800673646	11	2.93E-03
6	2.48E-01	2	6	3.47E-04
3	3.98E+01	1	3	1.00E-02
26	3.65E-07	1	26	2.44E-07
2	2.42E-02	0.866660217	2	6.50E-02
4	5.53E+00	0.369280692	4	1.87E-01
7	4.60E-01	-0.37817232	7	6.97E+00
4	6.24E-01	-0.003804264	4	7.54E-01
2	5.64E-01	0	2	6.46E-01
4	6.24E-01	0	4	7.43E-01
3	5.96E-01	0.022248865	3	6.45E-01
1	5.36E-01	0	1	6.02E-01
9	2.02E+00	-0.151088138	9	2.80E+00
6	2.64E+00	-0.510233742	6	9.99E+00
5	6.31E-01	-0.476714933	5	6.12E+00
3	5.75E-01	-0.125066186	3	1.03E+00
5	1.04E+00	0.653996068	5	4.87E-02
7	6.46E+00	-0.322820971	7	5.18E+00
5	8.05E-01	-0.397547754	5	4.36E+00
3	1.08E+00	-0.085616209	3	9.10E-01
5	7.58E-01	-0.093939165	5	1.19E+00
8	1.41E+00	-0.369968765	8	8.74E+00
11	7.03E-01	-0.336327664	11	1.53E+01
8	2.55E+05	-0.558038827	8	2.65E+01
4	1.16E+00	-0.523625463	4	5.25E+00
2	8.57E-01	0.015121632	2	6.20E-01
9	1.59E-01	-0.62854721	9	6.06E+01
5	1.07E+00	-0.928465701	5	4.22E+01
3	1.48E-02	-0.483645863	3	3.24E+00
5	1.46E-01	-0.102722232	5	1.24E+00
4	1.87E-01	0	4	7.43E-01
6	7.26E+00	-0.594934865	6	1.50E+01
7	5.48E+00	-0.189573828	7	2.53E+00
3	9.58E-01	0.283436999	3	2.80E-01
5	5.03E-01	0.388786113	5	1.51E-01
6	1.19E+01	-0.161996973	6	1.87E+00
7	4.75E+00	-0.37177292	7	6.73E+00
4	7.24E-01	-0.009000968	4	7.69E-01
7	1.56E+01	-0.221927323	7	3.01E+00

10	2.40E+02	-0.215012648	10	5.09E+00
5	7.30E-01	0	5	7.97E-01
8	6.89E+00	-0.400869763	8	1.05E+01
7	2.43E+00	2	7	8.92E-06
4	2.38E+00	-0.158284278	4	1.34E+00
4	1.31E+00	-0.085213891	4	1.02E+00
4	1.09E+00	-0.4423214	4	3.88E+00
3	5.93E-01	-0.073047882	3	8.75E-01
6	4.38E+01	-0.164206795	6	1.89E+00
3	6.12E-01	-0.025521492	3	7.52E-01
11	7.34E+00	0.19984646	11	2.70E-01
5	6.73E-01	0	5	7.97E-01
7	2.86E+01	0.179147828	7	3.51E-01
4	6.31E-01	-0.279047764	4	2.11E+00
8	1.38E+00	0.001810025	8	9.74E-01
3	7.10E-01	-0.297655786	3	1.79E+00
13	1.35E+03	-1	13	1.89E+04
4	2.10E+00	-0.382977271	4	3.10E+00
5	1.39E+00	-0.457202885	5	5.63E+00
10	2.99E+01	-0.921369303	10	7.08E+02
6	1.07E+02	-1	6	2.30E+02
6	3.00E+00	-0.034235336	6	1.01E+00
2	5.64E-01	-0.223884562	2	1.17E+00
4	1.26E+02	1	4	6.12E-03
8	9.19E-01	1	8	1.72E-03
10	1.41E+00	-0.076939039	10	1.94E+00
4	6.31E-01	-0.266529937	4	2.01E+00
3	7.27E-01	-0.033928211	3	7.72E-01
3	6.12E-01	-0.038123675	3	7.82E-01
5	1.13E+00	-0.504930577	5	6.91E+00
8	3.17E-02	0.175000173	8	3.50E-01
11	1.41E+00	0.095245604	11	5.93E-01
1	3.85E-01	0.03485281	1	5.59E-01
10	5.06E-03	0.485832183	10	3.80E-02
10	7.65E-04	0.824680075	10	3.56E-03
8	3.67E-04	0.462569104	8	6.42E-02
3	3.19E-01	0.169824015	3	4.03E-01
2	5.64E-01	-0.170010866	2	1.01E+00
2	5.80E-01	-0.014762661	2	6.72E-01
14	1.49E+03	0.249792115	14	1.52E-01
3	7.66E-01	0.259439685	3	3.03E-01
15	6.56E-01	-0.33532306	15	4.16E+01
3	3.55E-01	0.427351507	3	1.77E-01
5	4.22E-01	0.866072046	5	1.97E-02
8	2.51E-01	-0.111154248	8	1.90E+00
4	4.68E-03	-0.459714605	4	4.14E+00
9	4.09E-03	2	9	2.74E-05

9	6.53E-01	2	9	1.41E-06
3	9.21E-04	2	3	2.46E-04
13	1.49E-04	2	13	3.31E-07
2	6.31E+01	-0.756825766	2	4.79E+00
3	6.61E+00	0.426282074	3	1.78E-01
5	4.07E+00	2	5	1.08E-03
4	6.02E-01	0.078486545	4	5.54E-01
3	2.81E-01	-0.217209203	3	1.39E+00
1	5.02E-01	-0.012763671	1	6.18E-01
5	1.80E-01	-0.348222486	5	3.53E+00
3	2.61E-01	-0.125590495	3	1.03E+00
24	1.50E-04	0.147117441	24	3.55E-01
3	5.21E-01	-0.008200284	3	7.11E-01
20	3.34E-06	0.579936873	20	1.72E-03
8	8.57E-03	1	8	2.53E-03
3	2.73E-01	0.452480168	3	1.63E-01
7	2.32E-03	2	7	1.10E-05
4	5.71E-01	-0.11918554	4	1.16E+00
6	2.31E-01	-0.332686551	6	4.25E+00
4	1.25E+00	-0.511427356	4	5.02E+00
4	4.08E-01	-0.01742714	4	7.93E-01
73	3.24E-42	1	73	4.41E-22
3	1.33E-03	3	3	5.57E-05
24	1.61E-09	0.816061796	24	2.07E-05
4	9.79E-02	0.092006841	4	5.27E-01
5	1.22E-01	0.307575515	5	2.14E-01
13	7.69E-03	0.65488252	13	4.97E-03
3	3.24E-01	-0.093778841	3	9.34E-01
3	5.59E-01	-0.053626828	3	8.22E-01
21	1.63E-01	0.17460318	21	2.56E-01
6	2.98E-01	0.093065949	6	5.46E-01
27	1.13E-13	1	27	1.20E-09
13	7.99E-05	-0.171508761	13	6.13E+00
2	6.73E-02	0.173674307	2	4.08E-01
8	9.52E-03	-0.271515017	8	4.89E+00
19	9.45E-04	-0.063687967	19	4.54E+00
6	1.09E-04	0.688383166	6	3.10E-02
8	7.05E-03	0.830764843	8	7.31E-03
1	4.92E-01	0.029181531	1	5.66E-01
15	1.54E+00	0.090838626	15	6.67E-01
3	5.61E-01	-0.227365824	3	1.43E+00
1	5.36E-01	0	1	6.02E-01
7	3.96E-02	-0.077995992	7	1.39E+00
6	6.74E-01	0.421954522	6	1.12E-01
21	3.01E+00	-0.490769131	21	1.41E+03
10	1.43E+03	-0.593762395	10	7.17E+01
4	1.08E+01	-0.191356862	4	1.52E+00

9	2.44E+00	-0.482371095	9	2.36E+01
4	2.97E+00	-0.091013398	4	1.04E+00
6	2.96E+00	-0.306478381	6	3.74E+00
4	1.55E+00	-0.115974218	4	1.15E+00
4	8.87E-01	0.531963587	4	1.02E-01
3	1.18E+00	-0.448885561	3	2.90E+00
4	7.17E-02	-1	4	7.10E+01
3	1.74E+00	-2	3	1.13E+02
5	4.02E-02	-0.03740165	5	9.36E-01
42	3.63E-02	-0.122359324	42	2.11E+02
2	1.94E-01	0	2	6.46E-01
8	1.20E+01	-0.112572538	8	1.91E+00
6	5.38E+00	-0.162237471	6	1.87E+00
4	1.80E+01	-0.270952093	4	2.04E+00
11	2.14E+02	0.232148718	11	2.12E-01
7	5.62E+01	0.090485875	7	5.65E-01
5	1.36E+00	-0.225506961	5	2.09E+00
3	2.92E+00	-0.356538023	3	2.16E+00
6	1.69E+01	-0.354265665	6	4.71E+00
3	6.87E-01	-0.351334561	3	2.13E+00
7	4.72E+00	-0.370187084	7	6.67E+00
6	1.18E+00	0.527185565	6	6.75E-02
11	5.68E+00	-0.238373308	11	7.31E+00
5	2.28E+00	-0.532701525	5	7.78E+00
5	4.47E+00	-0.6238303	5	1.15E+01
9	1.02E+00	0.119750154	9	4.88E-01
4	4.76E-01	0	4	7.43E-01
3	3.46E-01	-0.039372364	3	7.86E-01
5	6.57E-01	-0.075117109	5	1.10E+00
4	4.31E-01	-0.155283605	4	1.33E+00
6	7.59E-01	-0.432849908	6	6.88E+00
5	1.24E+00	0.586424857	5	6.50E-02
7	4.41E+00	0.292250348	7	1.92E-01
8	1.53E+00	0.181650755	8	3.37E-01
16	1.34E+02	-0.350127523	16	6.23E+01
9	6.06E+02	-0.414588855	9	1.53E+01
9	3.06E+04	-0.059034945	9	1.54E+00
5	1.06E+01	-0.711243606	5	1.67E+01
6	7.11E-01	0	6	8.55E-01
3	5.93E-01	-0.011216847	3	7.18E-01
6	6.91E-01	-0.09929795	6	1.38E+00
9	2.18E+02	-0.208907053	9	4.06E+00
8	2.30E-02	0.20131797	8	3.00E-01
17	8.86E-02	0.208705983	17	1.95E-01
3	1.93E-01	-0.472414357	3	3.13E+00
1	5.58E-01	-0.015937023	1	6.22E-01
19	6.80E+00	0.105915104	19	6.07E-01

7	3.93E+00	-0.205538973	7	2.76E+00
6	4.36E-01	-0.214803694	6	2.41E+00
5	8.55E-01	-0.756749515	5	2.03E+01
1	5.45E-01	-0.083032722	1	7.17E-01
6	7.72E+00	-0.568846229	6	1.33E+01
6	3.62E+00	-0.116210959	6	1.50E+00
5	9.38E-01	-0.011506851	5	8.38E-01
5	2.09E+02	-1	5	5.95E+01
2	7.17E-01	-0.027997061	2	6.95E-01
6	9.81E-02	-0.064380151	6	1.17E+00
10	1.43E+02	-0.787215534	10	2.77E+02
3	8.01E+00	-1	3	3.57E+01
7	1.07E+00	-0.03767632	7	1.12E+00
9	8.89E+01	-0.705013807	9	9.93E+01
3	1.83E+00	0.258271589	3	3.04E-01
5	1.12E+00	-0.199144918	5	1.87E+00
5	2.92E+00	-0.242835762	5	2.25E+00
1	5.36E-01	-0.012274843	1	6.18E-01
2	5.64E-01	-0.250902722	2	1.26E+00
4	3.26E+00	-0.567436392	4	6.18E+00
2	5.20E-01	-0.01429882	2	6.71E-01
5	3.93E+01	0.079633426	5	5.67E-01
3	5.28E-01	-0.035340701	3	7.75E-01
4	4.81E-01	0.400221152	4	1.67E-01
3	5.98E-01	0.026367967	3	6.37E-01
4	6.24E-01	0.320385808	4	2.25E-01
5	9.84E-01	-0.399155791	5	4.39E+00
4	6.54E-01	-0.115223496	4	1.14E+00
3	8.95E-01	0.000122973	3	6.92E-01
4	6.24E-01	-0.011605125	4	7.76E-01
3	1.92E+00	0.180487525	3	3.89E-01
4	5.40E-01	-0.238676052	4	1.81E+00
9	1.23E+00	-0.135783455	9	2.53E+00
4	6.94E-04	-0.031589258	4	8.36E-01
4	1.39E-07	-0.029833342	4	8.31E-01
9	2.28E-10	2	9	1.54E-05
12	1.22E-05	0.71863998	12	3.95E-03
10	4.53E-03	-0.968199981	10	9.81E+02
3	1.25E-01	0.362437673	3	2.18E-01
7	7.24E+00	1	7	8.66E-04
2	5.74E-01	0	2	6.46E-01
2	7.09E-01	0.019223454	2	6.14E-01
8	3.08E+00	0.35702486	8	1.20E-01
4	2.44E+00	0.856835433	4	3.03E-02
6	5.85E+01	-0.758134354	6	3.30E+01
6	6.66E+00	-0.533553831	6	1.12E+01
6	2.54E+01	-0.27869245	6	3.28E+00

1	5.36E-01	-0.008875627	1	6.13E-01
4	7.74E-01	0.375538659	4	1.83E-01
3	6.72E-01	0.187274292	3	3.81E-01
8	2.79E+01	0.727479478	8	1.34E-02
5	3.43E+01	0.190198227	5	3.54E-01
6	3.24E+00	0.866807201	6	1.31E-02
3	1.30E+00	0.420484949	3	1.81E-01
8	3.96E+00	0.477660143	8	5.87E-02
8	7.29E+01	0.140609952	8	4.29E-01
6	3.29E+02	-2	6	1.30E+03
9	1.71E+03	-0.773118032	9	1.54E+02
5	1.20E+00	0.196113073	5	3.45E-01
3	5.93E-01	0	3	6.93E-01
2	4.64E-01	-0.011350041	2	6.65E-01
3	6.71E-01	0	3	6.93E-01
3	6.08E-01	0	3	6.93E-01
4	2.49E+00	-0.123281233	4	1.18E+00
9	3.51E-02	0.027917274	9	8.82E-01
7	7.36E+00	-0.697640637	7	3.86E+01
6	7.47E-01	-0.785245914	6	3.76E+01
4	6.59E-01	0.064205413	4	5.85E-01
8	4.82E-01	-0.220920271	8	3.63E+00
5	1.00E+01	-0.220696999	5	2.05E+00
3	6.01E-01	0.072450309	3	5.50E-01
8	1.11E+02	0.014519006	8	9.04E-01
7	2.35E+02	0.634483202	7	3.06E-02
17	1.15E+01	-0.192754381	17	1.48E+01
3	5.93E-01	-0.116623994	3	1.01E+00
11	2.47E+00	-0.230996692	11	6.92E+00
2	5.64E-01	0	2	6.46E-01
3	5.93E-01	0	3	6.93E-01
7	9.01E-01	0.080974473	7	5.95E-01
5	1.42E+00	0.076361234	5	5.75E-01
8	1.51E+01	-0.097034696	8	1.75E+00
5	6.66E-01	0.169621321	5	3.86E-01
7	1.68E+01	-0.832947394	7	7.97E+01
9	2.05E+02	-0.495093304	9	2.57E+01
2	3.90E-01	0.008637444	2	6.31E-01
7	3.52E-03	0.592519669	7	3.83E-02
17	3.23E-02	0.101039487	17	6.23E-01
14	4.18E+00	0.086337658	14	6.81E-01
17	3.27E+02	-0.466778114	17	2.84E+02
9	5.71E+00	-0.420575511	9	1.59E+01
2	5.34E-01	2	2	7.65E-03
2	9.51E-01	3	2	7.91E-04
2	5.45E-01	0.975802711	2	4.87E-02
1	4.95E-01	0.812358925	1	1.09E-01

7	1.00E+00	0.591736187	7	3.85E-02
3	6.18E-01	-0.615763084	3	4.94E+00
2	5.64E-01	-0.006340275	2	6.57E-01
7	2.60E+00	-0.157949311	7	2.14E+00
6	3.73E-01	-0.081459153	6	1.27E+00
3	1.53E+00	-0.06941474	3	8.65E-01
3	6.89E-01	-0.295964426	3	1.78E+00
6	7.46E+00	-0.234786256	6	2.65E+00
3	1.24E+00	-0.894833013	3	1.20E+01
6	8.05E+00	-0.2213485	6	2.48E+00
1	5.70E-01	0	1	6.02E-01
9	9.60E+01	0.290647849	9	1.62E-01
5	3.62E+01	1	5	1.87E-03
3	4.72E+00	0.728914929	3	6.77E-02
4	1.10E+00	0.170868053	4	3.93E-01
3	9.10E-01	0.674609995	3	8.05E-02
4	5.50E+00	-0.966787435	4	2.75E+01
9	8.80E-03	-0.26970405	9	6.01E+00
9	4.34E-01	0.047330473	9	7.78E-01
5	2.39E+00	0.086740502	5	5.50E-01
10	5.05E+01	-0.772418224	10	2.50E+02
4	5.43E-01	0.046662585	4	6.24E-01
3	7.32E-01	0.0246533	3	6.40E-01
4	4.87E+00	0.406438194	4	1.63E-01
4	1.43E+00	2	4	1.82E-04
9	1.45E+00	1	9	3.05E-04
4	2.28E+00	-0.08070625	4	1.00E+00
4	5.97E-01	0.0587869	4	5.97E-01
4	3.06E-01	-0.016641809	4	7.91E-01
11	2.09E+00	-0.235281825	11	7.15E+00
1	5.36E-01	0	1	6.02E-01
1	5.36E-01	0	1	6.02E-01
2	5.52E-01	0.085999557	2	5.14E-01
3	4.34E-01	0.557887852	3	1.17E-01
13	7.60E+00	0.973409981	13	3.20E-04
5	6.12E-01	-0.005206167	5	8.15E-01
2	5.70E-01	0.029191976	2	5.98E-01
5	5.21E-01	0.000155996	5	7.97E-01
2	6.27E-01	0.000172235	2	6.45E-01
1	5.38E-01	1.19E-05	1	6.02E-01
3	5.96E-01	0.158534376	3	4.18E-01
4	4.83E-01	0.209794628	4	3.40E-01
2	5.26E-01	0.269818272	2	3.16E-01
3	5.93E-01	-0.028895517	3	7.60E-01
2	9.10E-01	-0.059342205	2	7.56E-01
9	1.17E+01	0.021773729	9	9.18E-01
3	5.96E-01	0	3	6.93E-01

3	5.93E-01	0	3	6.93E-01
2	5.71E-01	-0.026673843	2	6.93E-01
6	1.11E+00	-0.495983326	6	9.33E+00
4	8.74E-01	-0.647252589	4	8.33E+00
4	9.24E-01	0.064046654	4	5.85E-01
7	1.69E+05	-1	7	2.34E+03
8	6.55E+04	-0.921465832	8	2.27E+02
5	1.89E+00	-0.109707859	5	1.27E+00
2	5.64E-01	-0.014163748	2	6.70E-01
7	5.68E+00	-0.268394519	7	3.87E+00
5	1.80E+01	0.259101344	5	2.63E-01
7	2.40E+00	-0.419002988	7	8.67E+00
5	5.37E+01	0.068150419	5	5.96E-01
5	1.26E+00	0.312151069	5	2.10E-01
5	2.08E+00	0	5	7.97E-01
7	5.92E-01	-0.151178871	7	2.06E+00
6	2.85E+00	0.566232385	6	5.59E-02
5	4.21E+00	0.728996996	5	3.53E-02
9	8.75E-01	-0.167920947	9	3.12E+00
2	7.72E-01	0.850293026	2	6.79E-02
8	9.11E-03	0.662084878	8	1.98E-02
1	5.36E-01	-0.02121048	1	6.29E-01
2	5.56E-01	-0.133755035	2	9.20E-01
3	3.88E-01	-0.389905414	3	2.40E+00
13	6.14E+03	0.427132216	13	3.53E-02
3	8.45E-01	0.299794132	3	2.66E-01
3	5.93E-01	-0.185788687	3	1.25E+00
21	6.83E+01	-0.244201355	21	5.80E+01
9	1.21E+00	-0.063331098	9	1.59E+00
9	6.66E+01	-0.867646062	9	2.83E+02
9	3.20E+00	-0.242668655	9	5.04E+00
2	2.44E+00	-0.254012918	2	1.27E+00
5	7.16E-01	-0.051675586	5	9.94E-01
3	1.29E+00	-0.137876572	3	1.08E+00
3	7.74E-01	-0.139764987	3	1.08E+00
12	6.24E+01	-0.163547961	12	4.88E+00
8	7.09E+00	-0.457303058	8	1.46E+01
5	5.32E-01	0.019534327	5	7.33E-01
6	7.26E-01	-0.104895573	6	1.42E+00
6	1.55E+01	0.084560201	6	5.69E-01
10	4.69E+00	0.144503766	10	4.13E-01
4	1.75E+01	-0.052429336	4	9.04E-01
3	6.46E-01	0.455310027	3	1.62E-01
2	3.50E-01	-0.232934249	2	1.20E+00
4	2.36E+00	0.926349096	4	2.34E-02
18	1.81E+06	0.756835786	18	3.77E-04
12	9.38E+04	-1	12	1.12E+05

16	2.36E+03	-0.218635103	16	1.62E+01
10	1.95E+01	0.052491199	10	7.85E-01
2	4.81E-01	-0.149319376	2	9.59E-01
4	1.04E+01	-0.432686458	4	3.74E+00
2	5.65E-01	0	2	6.46E-01
4	2.90E-03	0.779428648	4	4.05E-02
3	5.78E-01	0.022940955	3	6.44E-01
8	3.99E-02	1	8	1.12E-03
7	4.64E-01	-0.346178998	7	5.87E+00
7	2.80E-03	-0.321810421	7	5.15E+00
16	2.23E-02	0.062672484	16	9.09E-01
17	7.34E-08	0.494992222	17	8.92E-03
4	1.17E+00	0.253113822	4	2.89E-01
13	5.99E-01	-0.05340875	13	2.22E+00
4	1.08E+00	-0.077131167	4	9.91E-01
10	7.58E+00	-0.5996492	10	7.48E+01
7	2.26E+00	-0.187179264	7	2.50E+00
7	3.90E-01	0.668557274	7	2.55E-02
4	4.44E-02	0.888406662	4	2.70E-02
6	3.38E-01	0.317281048	6	1.85E-01
6	8.46E-01	-0.017174066	6	9.29E-01
11	3.26E-02	-0.347860073	11	1.67E+01
16	5.57E-02	-0.985217937	16	4.15E+04
8	1.14E+00	-0.260992539	8	4.59E+00
4	7.40E-01	-0.31764288	4	2.43E+00
2	4.28E-01	-0.133872496	2	9.21E-01
13	9.64E+00	0.158193946	13	3.58E-01
2	5.64E-01	-0.01203792	2	6.67E-01
10	3.54E+01	-0.504571549	10	3.85E+01
24	2.85E+05	-0.228968362	24	8.53E+01
5	2.08E+00	-0.186541625	5	1.77E+00
5	3.63E+00	0.533279015	5	8.15E-02
4	6.37E-01	0.27146069	4	2.70E-01
4	8.97E-01	0.281924288	4	2.59E-01
11	5.60E+05	-0.100831728	11	2.60E+00
4	5.19E-01	0.044117712	4	6.30E-01
8	4.37E+02	-0.089223013	8	1.67E+00
5	4.53E+00	-0.110719275	5	1.28E+00
3	4.86E-01	-0.163374159	3	1.17E+00
3	2.89E-01	0	3	6.93E-01
2	5.64E-01	0	2	6.46E-01
5	7.62E-01	-0.036632681	5	9.32E-01
4	6.24E-01	0	4	7.43E-01
3	5.93E-01	0	3	6.93E-01
4	1.97E+00	-0.5856642	4	6.62E+00
2	2.41E+00	-1	2	1.26E+01
1	7.38E+00	-0.375174213	1	1.33E+00

4	1.09E+00	0.282592802	4	2.59E-01
3	1.38E+00	-0.340695228	3	2.05E+00
4	8.70E-01	-0.041178253	4	8.67E-01
5	3.46E+01	0.091672122	5	5.39E-01
4	8.14E+00	0.288108495	4	2.53E-01
1	5.40E-01	0	1	6.02E-01
14	1.60E+00	-0.289626091	14	2.13E+01
2	1.41E+00	-0.535478281	2	2.67E+00
6	5.09E+00	-0.16474356	6	1.89E+00
8	6.60E-01	-0.678242643	8	5.39E+01
21	2.68E+03	-0.665504157	21	1.36E+04
12	2.96E+07	-1	12	1.19E+05
5	4.86E+01	0.055120379	5	6.30E-01
7	6.30E+00	0.044449587	7	7.23E-01
6	2.49E+02	-0.021893652	6	9.51E-01
9	7.45E-01	-0.289502649	9	6.82E+00
2	2.50E-01	-0.040223584	2	7.18E-01
3	5.84E-01	-0.002752758	3	6.99E-01
17	5.33E-01	0.022212094	17	1.46E+00
9	5.82E+01	-0.128624422	9	2.42E+00
45	5.58E+02	-0.105797264	45	2.07E+02
5	8.92E-01	0.346689486	5	1.81E-01
4	3.52E+00	0.381239312	4	1.79E-01
6	1.20E+00	-0.462365249	6	7.94E+00
9	7.69E-01	-0.291535464	9	6.91E+00
6	6.37E-01	-0.043353997	6	1.05E+00
6	1.92E-01	-0.169565998	6	1.94E+00
4	2.29E-01	0.123172398	4	4.69E-01
4	4.12E-02	0.067455374	4	5.78E-01
9	4.67E-03	2	9	7.75E-06
6	3.08E-05	0.99747262	6	7.00E-03
9	2.49E-02	0.89918356	9	3.22E-03
4	7.50E-01	0.222983909	4	3.23E-01
4	8.29E-01	0.227796355	4	3.18E-01
1	5.13E-01	0.25549114	1	3.51E-01
11	1.68E-05	0.95442923	11	9.21E-04
4	6.55E-02	0.318305692	4	2.26E-01
13	1.01E-03	0.444055008	13	3.05E-02
2	9.49E-01	-0.413700444	2	1.93E+00
13	2.08E+02	-0.174672964	13	6.30E+00
4	3.08E-01	0.489069418	4	1.20E-01
17	1.30E-05	2	17	5.23E-09
4	4.51E-01	-0.099601226	4	1.08E+00
4	8.14E-06	2	4	4.73E-04
2	1.05E-01	0.05625014	2	5.56E-01
1	4.81E-02	0.772350296	1	1.18E-01
3	1.12E-03	2	3	2.82E-03

1	2.90E-01	0.458779167	1	2.29E-01
6	6.91E-01	0	6	8.55E-01
2	5.64E-01	0	2	6.46E-01
9	4.61E-01	-0.184039658	9	3.46E+00
8	1.05E+00	-0.045030265	8	1.28E+00
2	5.64E-01	0	2	6.46E-01
6	6.91E-01	0	6	8.55E-01
4	9.09E+01	-0.723406935	4	1.11E+01
6	9.38E+01	-0.65478007	6	2.01E+01
1	5.72E-01	0	1	6.02E-01
1	2.87E+00	0	1	6.02E-01
3	2.00E+00	-0.443224934	3	2.85E+00
5	2.97E+00	-0.084309679	5	1.14E+00
3	1.39E+00	-0.106660015	3	9.74E-01
8	9.89E+02	-0.151748142	8	2.41E+00
4	8.43E-01	0.216044895	4	3.32E-01
5	1.05E+00	-0.140548191	5	1.45E+00
8	1.26E+00	-0.05121193	8	1.33E+00
5	1.19E+00	-0.166964942	5	1.63E+00
2	1.03E+00	-0.026827894	2	6.93E-01
14	5.98E+01	-0.476943145	14	1.18E+02
6	3.42E+00	-0.808020246	6	4.20E+01
1	5.44E-01	-0.006950783	1	6.11E-01
8	4.24E+01	-0.389265721	8	9.79E+00
5	5.27E+01	-0.157310788	5	1.56E+00
4	1.01E+00	-0.022015167	4	8.07E-01
6	8.30E+00	-0.033677783	6	1.01E+00
7	1.15E+01	0.713486327	7	2.00E-02
5	1.95E+00	1	5	1.75E-03
6	7.45E+01	0.026941399	6	7.51E-01
4	3.94E-01	-0.578613458	4	6.45E+00
9	3.25E+00	-0.273537527	9	6.16E+00
7	2.94E+00	-0.093398026	7	1.51E+00
9	7.96E+00	-0.51499682	9	2.92E+01
8	1.16E+03	-2	8	1.09E+04
139	1.99E-21	0.439582554	139	2.02E-11
14	2.88E-03	-0.126008004	14	4.76E+00
10	3.71E-02	0.599288173	10	1.72E-02
16	1.10E-01	0.410793562	16	2.57E-02
36	5.40E-01	0.107326766	36	7.33E-01
15	8.59E+00	0.624217167	15	3.78E-03
2	5.64E-01	0	2	6.46E-01
7	1.32E+00	-0.001578338	7	9.25E-01
2	4.28E-01	-0.007298173	2	6.58E-01
10	4.36E-04	-0.345542016	10	1.27E+01
19	2.73E-02	-0.687939849	19	7.48E+03
9	1.08E-03	-0.979904748	9	5.84E+02

4	3.34E-01	-0.415540931	4	3.51E+00
7	4.91E+01	0.414563766	7	9.95E-02
6	2.54E+00	0.040157757	6	7.05E-01
8	6.03E+03	0.587084589	8	3.08E-02
7	1.76E+02	0.257823755	7	2.30E-01
9	2.03E+03	-0.089467526	9	1.88E+00
8	8.83E+00	-0.465056516	8	1.53E+01
8	1.45E+01	0.528470556	8	4.35E-02
8	2.19E+01	-0.084941483	8	1.63E+00
7	2.49E+01	0.254372702	7	2.35E-01
7	7.38E-01	0	7	9.18E-01
6	2.16E+00	-0.00701032	6	8.85E-01
9	1.93E+01	0.096284705	9	5.68E-01
4	1.51E+01	0.278431496	4	2.63E-01
5	1.95E+00	-0.054711237	5	1.01E+00
2	1.04E+00	-0.313077604	2	1.48E+00
8	3.45E-01	-0.252450771	8	4.37E+00
3	5.61E+01	-1	3	5.14E+01
1	5.57E-01	-0.037957164	1	6.52E-01
1	5.57E-01	-0.037957164	1	6.52E-01
2	2.40E+00	-0.034012093	2	7.07E-01
3	3.78E+00	-0.256960486	3	1.57E+00
6	1.17E+00	-0.506898749	6	9.83E+00
2	4.93E-01	-0.805286573	2	5.45E+00
2	6.70E-01	-0.254962535	2	1.27E+00
12	3.48E+04	-0.484013986	12	6.48E+01
8	6.44E+00	-0.499459739	8	1.88E+01
5	9.72E-01	-0.177770051	5	1.70E+00
15	4.88E-01	-0.060620371	15	2.90E+00
2	5.64E-01	-0.022963343	2	6.86E-01
7	3.77E-01	-0.706910772	7	4.06E+01
5	1.62E+00	0.578033767	5	6.73E-02
4	6.24E-01	-0.008918324	4	7.68E-01
2	3.76E+00	-0.140697678	2	9.37E-01
4	3.57E-01	-0.428261067	4	3.68E+00
3	6.85E-01	-0.483563717	3	3.24E+00
2	3.58E+01	-0.512953644	2	2.51E+00
14	4.38E+01	-0.915791734	14	6.57E+03
4	4.02E-01	-0.470151406	4	4.30E+00
6	2.58E+00	0.092874729	6	5.47E-01
11	3.45E-01	0.040257307	11	8.98E-01
9	2.40E-01	0.117304898	9	4.96E-01
7	4.11E-01	-0.565372717	7	1.90E+01
10	3.17E+02	0.458596101	10	4.60E-02
3	4.53E-01	0.107002958	3	4.92E-01
5	9.74E+00	0.369814178	5	1.64E-01
4	4.38E+01	0.552740828	4	9.44E-02

5	1.44E+00	-0.134880761	5	1.42E+00
8	8.63E+02	0.089110767	8	5.82E-01
9	6.16E+02	0.077339916	9	6.42E-01
6	1.07E+01	-0.166408167	6	1.91E+00
5	1.18E+00	-0.50944203	5	7.04E+00
3	1.03E+00	-0.417174666	3	2.62E+00
2	5.71E-01	-0.022297351	2	6.85E-01
5	2.67E-01	-0.298077217	5	2.85E+00
2	6.69E-01	-0.014478546	2	6.71E-01
6	7.61E-01	0.100298863	6	5.28E-01
1	5.51E-01	0	1	6.02E-01
3	1.16E+00	-0.088798254	3	9.20E-01
1	5.91E-01	-0.02121048	1	6.29E-01
9	3.09E+00	0.327285397	9	1.28E-01
1	5.72E-01	0.013637097	1	5.85E-01
1	5.46E-01	-0.015550402	1	6.22E-01
10	1.85E+02	-0.112466585	10	2.49E+00
35	1.12E+05	0.062901294	35	1.80E+00
9	7.40E+02	-0.723176479	9	1.12E+02
12	1.13E+06	-1	12	2.10E+05
7	1.05E+01	-0.163773005	7	2.21E+00
5	3.01E+01	0.420248194	5	1.32E-01
1	6.18E-01	-0.030026168	1	6.41E-01
6	2.98E-01	-0.062265308	6	1.15E+00
6	5.61E+00	0.298202456	6	2.03E-01
2	5.78E-01	-0.004386432	2	6.53E-01
4	1.24E+00	-0.1651871	4	1.38E+00
20	8.13E+01	0.288236393	20	6.40E-02
4	1.42E+00	0.498899522	4	1.15E-01
5	1.15E+00	0.909300497	5	1.63E-02
4	7.62E+00	-0.625297281	4	7.67E+00
4	1.77E+01	-0.594294404	4	6.83E+00
3	3.72E-01	-0.186238257	3	1.26E+00
6	4.07E+01	-0.635061494	6	1.82E+01
5	1.65E+00	0.284187056	5	2.37E-01
4	1.83E+00	-0.065700797	4	9.50E-01
4	3.03E-01	-0.828287284	4	1.64E+01
9	5.33E-01	-0.399075315	9	1.38E+01
12	1.99E-02	-0.078372627	12	2.45E+00
9	7.96E-01	-0.067930145	9	1.64E+00
4	6.24E-01	0	4	7.43E-01
4	2.42E-01	-0.164740258	4	1.37E+00
4	7.77E-01	-0.077846811	4	9.94E-01
3	8.07E-01	-0.03257534	3	7.69E-01
5	2.50E+00	-0.395020715	5	4.32E+00
2	7.42E-01	-0.888550767	2	6.80E+00
5	4.32E+00	0.241782614	5	2.84E-01

2	5.48E-01	0	2	6.46E-01
4	6.20E-01	0	4	7.43E-01
3	6.42E-01	-0.04858182	3	8.09E-01
16	1.75E+05	-0.759457396	16	4.12E+03
4	2.96E+00	-0.681769234	4	9.47E+00
2	5.17E-01	0	2	6.46E-01
1	5.36E-01	0	1	6.02E-01
2	3.29E-01	-0.247619478	2	1.24E+00
3	1.72E+00	0.61276946	3	9.80E-02
5	1.96E+00	-0.954009191	5	4.71E+01
2	5.98E-01	-0.038649275	2	7.15E-01
5	3.99E+01	-0.608132168	5	1.07E+01
5	1.17E+01	-0.153734463	5	1.54E+00
4	1.43E+00	-0.339140564	4	2.64E+00
4	2.78E+00	0.96166748	4	2.05E-02
2	5.64E-01	0.034424315	2	5.89E-01
6	3.04E+00	0.529062998	6	6.69E-02
5	6.81E-01	-0.393800926	5	4.29E+00
2	5.74E-01	-0.05779257	2	7.53E-01
7	2.36E-01	0.126493162	7	4.66E-01
6	2.36E+02	-0.014844043	6	9.19E-01
4	9.14E-01	0.037999712	4	6.45E-01
4	1.06E+00	-0.100190186	4	1.08E+00
2	5.59E-01	0	2	6.46E-01
2	5.64E-01	0	2	6.46E-01
7	2.44E+00	-0.35231447	7	6.06E+00
3	7.36E-01	0.158408561	3	4.18E-01
1	5.46E-01	-0.024446129	1	6.34E-01
9	1.85E-02	-0.324691476	9	8.56E+00
4	4.92E-01	0.233485223	4	3.11E-01
11	6.67E+03	0.481695083	11	3.23E-02
9	3.95E+01	-0.028914988	9	1.27E+00
8	1.25E+01	0.064049262	8	6.75E-01
15	1.02E+06	-0.114649076	15	4.89E+00
17	1.11E+00	0.443343648	17	1.56E-02
11	1.41E+01	0.619621429	11	1.15E-02
1	5.56E-01	0.093151262	1	4.95E-01
6	1.11E+02	-0.537284409	6	1.14E+01
7	3.56E+00	-0.088582359	7	1.48E+00
21	2.76E+02	-0.193931562	21	3.02E+01
27	7.90E+02	0.559663738	27	4.31E-04
9	5.14E+00	0.012685381	9	9.73E-01
5	8.17E+00	-0.071786032	5	1.08E+00
7	1.09E+00	-0.008255744	7	9.59E-01
8	6.19E+01	-0.739483195	8	7.74E+01
7	3.02E+01	0.209315526	7	2.99E-01
5	1.02E+01	-0.468229863	5	5.90E+00

2	7.91E-01	-0.252130482	2	1.26E+00
4	6.24E-01	-0.349290413	4	2.74E+00
2	6.85E-01	-0.015616209	2	6.73E-01
4	9.91E-01	-0.200440861	4	1.57E+00
4	8.99E-01	-0.26134819	4	1.97E+00
10	1.72E+03	0.435884945	10	5.39E-02
4	1.24E+00	-0.011749959	4	7.77E-01
3	6.86E-01	0	3	6.93E-01
8	1.02E+03	-0.947546227	8	2.64E+02
5	1.52E+01	-0.4928702	5	6.56E+00
5	1.78E+00	-0.430455512	5	5.02E+00
2	6.32E-01	0.257373	2	3.27E-01
5	6.57E-01	-0.150143184	5	1.52E+00
2	5.64E-01	-0.010942723	2	6.65E-01
5	2.19E+01	-0.157101082	5	1.56E+00
3	3.37E+00	-0.098297304	3	9.48E-01
4	7.89E-01	-0.061903193	4	9.36E-01
5	8.93E-01	-0.129194424	5	1.39E+00
7	2.70E+00	0.085267869	7	5.81E-01
6	1.05E+01	0.548798709	6	6.08E-02
34	2.25E+02	0.219966875	34	7.52E-02
3	6.50E-01	-0.056813772	3	8.30E-01
2	1.33E+01	-0.068621754	2	7.74E-01
2	6.21E+00	-0.467352953	2	2.23E+00
1	8.58E-01	-0.78832265	1	3.17E+00
13	4.47E-04	0.568591554	13	1.04E-02
4	7.78E-02	0	4	7.43E-01
9	1.96E+01	1	9	6.17E-04
11	5.52E+00	2	11	4.20E-07
12	3.83E+01	-0.160719449	12	4.77E+00
11	2.48E+01	0.542573196	11	2.05E-02
10	8.70E-01	0.129452303	10	4.59E-01
14	3.25E+01	-0.080313151	14	3.13E+00
6	7.19E+02	0.014160003	6	7.99E-01
24	1.09E+07	0.905677985	24	5.60E-06
9	2.58E+04	0.090721478	9	5.89E-01
4	2.12E+02	-1	4	3.20E+01
3	1.40E+00	0.010518088	3	6.70E-01
3	6.18E+00	-1	3	3.00E+01
2	7.23E-01	0.328823513	2	2.70E-01
2	1.78E+00	-0.74484026	2	4.64E+00
1	5.58E-01	-0.042113636	1	6.58E-01
7	7.33E-01	-0.128178907	7	1.82E+00
6	1.26E+00	-1	6	1.66E+02
10	9.66E+00	-0.001883414	10	1.15E+00
4	8.26E-01	-0.059665128	4	9.29E-01
32	1.88E+06	-0.279309376	32	1.05E+03

6	3.21E+00	-0.614481262	6	1.65E+01
9	1.29E-01	1	9	1.61E-04
4	4.53E-01	-0.072658693	4	9.75E-01
4	8.90E-01	-0.124289133	4	1.18E+00
8	8.24E+00	-0.379028735	8	9.22E+00
4	7.30E-01	-0.029641391	4	8.30E-01
7	1.47E+00	-0.00791836	7	9.57E-01
18	3.34E+03	-0.125956848	18	8.28E+00
6	2.06E+03	-1	6	6.75E+02
4	2.71E+00	-0.188023733	4	1.50E+00
2	5.47E-01	-0.010625347	2	6.64E-01
8	4.06E-01	-0.147437534	8	2.35E+00
6	6.91E-01	-0.084102892	6	1.28E+00
2	5.64E-01	0	2	6.46E-01
5	6.58E-01	-0.18388807	5	1.75E+00
2	1.71E+00	0	2	6.46E-01
3	1.30E+00	0	3	6.93E-01
3	6.02E-01	-0.00377476	3	7.01E-01
4	2.04E+00	-1	4	9.24E+01
7	3.47E-01	-0.482485084	7	1.22E+01
6	1.05E+00	-0.08570752	6	1.29E+00
6	8.35E-01	-0.032199455	6	9.99E-01
11	8.65E-05	-0.183216988	11	4.83E+00
14	3.55E-05	-0.937854722	14	8.04E+03
12	2.47E+00	-0.133188421	12	3.82E+00
12	1.68E+01	-0.229782011	12	8.33E+00
5	3.95E-02	-0.208994829	5	1.95E+00
24	5.94E+02	0.713463352	24	9.22E-05
3	2.85E+00	0.744550454	3	6.44E-02
3	1.51E+01	-0.403853814	3	2.51E+00
6	8.72E+00	-0.332252099	6	4.24E+00
6	3.58E+00	-0.255173991	6	2.92E+00
4	5.11E-01	0	4	7.43E-01
4	6.24E-01	-0.201111446	4	1.57E+00
9	9.81E-01	0.259100915	9	1.99E-01
8	2.68E+00	-0.031082396	8	1.18E+00
3	5.55E-01	-0.342007208	3	2.06E+00
1	5.36E-01	0	1	6.02E-01
5	6.57E-01	0	5	7.97E-01
8	2.77E+01	-0.569920957	8	2.84E+01
2	6.02E-01	-0.28943181	2	1.39E+00
5	2.05E+00	0.050896097	5	6.41E-01
9	1.22E+00	0.006176758	9	1.01E+00
6	6.41E-01	-0.012702279	6	9.09E-01
7	1.33E+00	0.003242286	7	9.02E-01
6	1.73E+00	0.168609493	6	3.80E-01
12	1.02E-03	1	12	1.41E-05

8	5.29E+00	0.376285454	8	1.07E-01
5	7.24E-01	-0.044943233	5	9.66E-01
5	3.78E-01	-0.096764983	5	1.21E+00
12	3.86E-01	-0.111562819	12	3.21E+00
21	2.41E+00	0.11925524	21	5.24E-01
1	5.77E-01	0.017311824	1	5.80E-01
7	7.74E-01	0.126975942	7	4.65E-01
22	2.03E+00	0.16336292	22	2.91E-01
2	5.76E-01	-0.075342751	2	7.88E-01
2	9.22E-01	0.430721667	2	2.06E-01
5	3.40E+00	0.770209918	5	2.96E-02
2	1.65E+01	-0.027202144	2	6.94E-01
7	8.17E+00	-0.528328092	7	1.56E+01
2	2.77E+00	0	2	6.46E-01
18	7.08E+00	-0.061353802	18	3.98E+00
13	2.13E-01	-0.055319103	13	2.25E+00
5	5.80E-01	0.001906165	5	7.91E-01
21	1.68E+00	-0.093637055	21	8.25E+00
43	2.83E-04	0.50730306	43	3.80E-05
1	1.63E+00	0.207394626	1	3.89E-01
22	2.92E+00	0.092831812	22	7.52E-01
12	9.45E-01	-0.03938009	12	1.79E+00
14	2.07E-01	-0.099350812	14	3.73E+00
14	4.95E+00	-0.090164578	14	3.43E+00
5	7.20E-01	-0.444089781	5	5.32E+00
5	7.43E-01	-0.115837705	5	1.31E+00
8	2.35E+02	-0.614142112	8	3.69E+01
6	5.30E+00	-0.428307897	6	6.73E+00
46	3.23E-03	0.152990909	46	2.47E-01
9	2.84E-01	0.142970378	9	4.20E-01
2	7.43E-01	0.034144907	2	5.90E-01
3	7.37E-01	3.32E-05	3	6.93E-01
5	4.15E-01	-0.010683408	5	8.35E-01
10	6.34E-01	0.053441143	10	7.80E-01
12	6.85E-02	-0.414811864	12	3.71E+01
2	5.64E-01	0.518161991	2	1.64E-01
11	9.89E-01	0.123139623	11	4.81E-01
23	2.45E+00	-0.082757034	23	9.02E+00
9	3.83E-01	-0.021868311	9	1.22E+00
6	7.12E+00	-0.117445775	6	1.51E+00
8	6.70E+01	-0.668206039	8	5.08E+01
4	8.65E-01	-0.641517589	4	8.15E+00
8	3.58E-01	-0.31096904	8	6.17E+00
7	1.45E+01	-0.302440653	7	4.64E+00
5	2.07E+00	-0.394406408	5	4.31E+00
9	1.26E+00	0.034618414	9	8.45E-01
4	6.31E+00	0.032376864	4	6.59E-01

1	5.91E-01	0.029534352	1	5.66E-01
4	2.83E+00	0.693826649	4	5.57E-02
1	5.89E-01	-0.406768372	1	1.42E+00
11	1.87E+03	0.527709714	11	2.29E-02
3	1.02E+00	0.392292368	3	1.98E-01
2	5.85E-01	-0.092615461	2	8.25E-01
5	6.63E-01	-0.005109685	5	8.15E-01
7	8.01E+00	-0.19807428	7	2.65E+00
2	1.91E+00	-0.440462473	2	2.07E+00
6	5.23E-01	-0.092576554	6	1.34E+00
22	4.30E+02	-0.164155831	22	2.41E+01
3	1.17E+00	-0.06658976	3	8.57E-01
2	1.33E+00	0.029225297	2	5.98E-01
5	7.67E-01	0.02370147	5	7.20E-01
4	7.25E-01	0.018525322	4	6.94E-01
10	5.07E+00	0.198129548	10	2.84E-01
5	1.93E+00	-0.08486053	5	1.15E+00
11	4.72E-01	-0.066591598	11	2.01E+00
2	2.81E-01	0	2	6.46E-01
19	1.04E+03	-0.19550073	19	2.17E+01
31	7.76E+12	-0.543600097	31	1.08E+05
7	7.92E-01	0.440192918	7	8.67E-02
8	2.63E+00	2	8	3.16E-05
10	8.49E-01	0.628780976	10	1.40E-02
25	1.48E+01	0.870465845	25	6.26E-06
4	1.42E+00	-0.002505095	4	7.50E-01
14	4.29E+02	0.669623963	14	3.27E-03
40	6.06E+14	0.157230801	40	2.41E-01
9	7.43E+03	-0.876952176	9	3.01E+02
3	6.83E-01	-0.017535611	3	7.33E-01
6	2.21E+01	-0.004920634	6	8.76E-01
1	6.84E-01	-0.28943181	1	1.11E+00
20	1.47E+02	-0.273857415	20	6.84E+01
3	3.11E+01	-1	3	7.09E+01
2	5.91E-01	-0.490268437	2	2.37E+00
2	5.64E-01	0	2	6.46E-01
9	1.91E+01	0.260848994	9	1.97E-01
3	9.04E-01	-0.014847343	3	7.26E-01
2	5.64E-01	0	2	6.46E-01
3	7.88E-01	0.125153191	3	4.65E-01
9	4.50E+00	0.557185427	9	2.91E-02
2	6.03E-01	0.017676061	2	6.16E-01
3	8.83E-01	-0.003194552	3	7.00E-01
1	5.36E-01	0	1	6.02E-01
4	6.24E-01	0	4	7.43E-01
5	1.31E+00	0	5	7.97E-01
2	9.83E-01	0	2	6.46E-01

2	5.64E-01	-0.002392232	2	6.50E-01
2	6.51E-01	-0.014409037	2	6.71E-01
2	5.64E-01	0	2	6.46E-01
3	4.71E-01	-0.007186108	3	7.09E-01
5	2.49E+00	-0.440548958	5	5.24E+00
2	1.22E+00	-0.268654549	2	1.32E+00
2	5.79E-01	0.029194306	2	5.98E-01
8	1.51E+00	-0.193167901	8	3.08E+00
7	1.63E+00	-0.176770145	7	2.37E+00
8	1.69E+00	-0.147387332	8	2.35E+00
3	1.79E+00	0	3	6.93E-01
1	5.36E-01	0	1	6.02E-01
4	7.76E+00	0.027573076	4	6.71E-01
6	3.32E-01	0.200107238	6	3.26E-01
5	4.59E-01	0	5	7.97E-01
5	2.26E+00	0	5	7.97E-01
2	5.48E-01	-0.042963745	2	7.24E-01
2	5.64E-01	-0.28943181	2	1.39E+00
1	5.36E-01	-0.015937023	1	6.22E-01
20	4.41E+00	0.012555954	20	1.96E+00
8	2.17E+01	-0.600879896	8	3.41E+01
2	4.55E-01	-0.539381252	2	2.70E+00
9	4.53E+03	-0.514062111	9	2.90E+01
2	1.14E+00	1	2	2.65E-02
21	1.94E+13	-1	21	1.05E+07
2	3.49E+00	-0.463396168	2	2.20E+00
5	6.57E-01	0.225612406	5	3.04E-01
2	8.64E-01	-0.030627435	2	7.00E-01
3	3.77E+03	-0.630260231	3	5.18E+00
5	1.65E+00	0.112585611	5	4.93E-01
2	5.64E-01	-0.20542542	2	1.11E+00
7	7.74E-01	-1	7	2.04E+02
9	1.59E+03	-1	9	9.64E+02
9	6.65E-01	0.067494206	9	6.84E-01
18	1.22E-01	-0.011304528	18	2.26E+00
7	2.08E-01	-0.166991594	7	2.25E+00
15	5.22E+00	0.033883692	15	1.16E+00
13	5.76E+01	-0.118941727	13	3.90E+00
10	8.47E-01	-0.025624792	10	1.36E+00
15	8.17E-01	-0.129080459	15	5.63E+00
4	1.78E-04	-0.482265547	4	4.50E+00
7	1.27E-01	-0.144782292	7	1.99E+00
3	6.21E-01	-0.004782193	3	7.03E-01
12	2.90E+00	-0.482302068	12	6.39E+01
3	5.93E-01	0.420018679	3	1.81E-01
9	8.82E-01	0.179464847	9	3.32E-01
1	5.12E-01	0	1	6.02E-01

23	4.74E-01	-0.049053784	23	5.62E+00
6	4.67E+00	0.085620886	6	5.66E-01
5	6.57E-01	-0.001631997	5	8.03E-01
9	7.89E-02	0	9	1.06E+00
15	1.83E+01	-0.039095951	15	2.35E+00
6	5.90E+01	0.041346756	6	7.01E-01
16	3.64E+00	0.048066192	16	1.06E+00
23	9.41E+01	0.002160758	23	2.74E+00
18	4.21E+01	-0.273341177	18	4.39E+01
13	1.28E+00	-0.057884229	13	2.30E+00
5	2.26E-01	-0.793220142	5	2.37E+01
5	2.08E-01	-0.355111448	5	3.64E+00
10	8.50E-01	0	10	1.13E+00
10	7.43E+01	-0.317768313	10	1.04E+01
12	3.00E+00	-0.185474959	12	5.83E+00
2	4.60E-01	-0.579799433	2	3.00E+00
9	3.73E-06	-0.858205677	9	2.66E+02
7	4.85E-01	-0.070294836	7	1.34E+00
6	6.28E-01	-0.509826853	6	9.97E+00
14	1.59E+01	-0.227191821	14	1.20E+01
4	1.20E+02	-0.805447704	4	1.50E+01
8	3.07E+02	-0.658292034	8	4.79E+01
8	4.91E-01	-0.225070696	8	3.72E+00
5	7.46E-01	-0.663712196	5	1.36E+01
2	4.87E+00	-0.354627606	2	1.65E+00
2	1.07E+00	-0.223737046	2	1.17E+00
4	3.03E+00	-0.321866763	4	2.47E+00
3	7.38E-01	0.090094322	3	5.20E-01
4	1.22E+01	0.022222951	4	6.84E-01
10	1.13E+01	-0.660482645	10	1.14E+02
2	2.38E+01	0.078666927	2	5.24E-01
7	3.22E-01	0.152521288	7	4.05E-01
2	6.67E-01	2.56E-05	2	6.46E-01
4	1.43E-01	0.119491103	4	4.76E-01
2	4.96E-01	-0.256413559	2	1.27E+00
10	2.92E-01	0.19304624	10	2.94E-01
1	5.36E-01	0	1	6.02E-01
2	5.77E-01	-0.002703837	2	6.50E-01
5	7.68E+00	-0.18616099	5	1.77E+00
6	7.47E-01	0.008904548	6	8.19E-01
9	6.18E+00	0.513206063	9	3.87E-02
2	5.61E-01	0.009518863	2	6.30E-01
2	5.64E-01	0	2	6.46E-01
4	5.54E-01	-0.029673963	4	8.30E-01
2	2.27E-01	-0.013694728	2	6.70E-01
6	6.95E-01	0.167492116	6	3.82E-01
2	1.03E+00	0.230250605	2	3.51E-01

8	4.80E-01	-0.173898655	8	2.75E+00
12	8.01E-01	-0.117822702	12	3.37E+00
4	6.24E-01	0	4	7.43E-01
12	7.38E-01	0.296594214	12	1.19E-01
7	6.48E-01	0.002413179	7	9.06E-01
45	4.09E+00	0.062999578	45	2.58E+00
6	1.22E+00	-0.385432295	6	5.48E+00
9	3.05E-01	-0.09278049	9	1.92E+00
3	8.85E-01	-0.074527981	3	8.79E-01
11	1.37E+00	0	11	1.22E+00
12	9.26E-01	0	12	1.30E+00
24	1.01E+00	-0.31104932	24	2.82E+02
6	8.24E-01	-0.055616046	6	1.12E+00
3	5.70E-01	-0.181324428	3	1.24E+00
15	2.45E-01	-0.077800105	15	3.42E+00
2	5.58E-01	0.164324874	2	4.18E-01
8	8.79E-01	-0.094999785	8	1.72E+00
4	6.24E-01	0	4	7.43E-01
8	4.12E-01	-0.022899249	8	1.13E+00
4	6.47E-01	-0.179457301	4	1.45E+00
4	6.24E-01	0	4	7.43E-01
6	6.22E-01	0.110012678	6	5.03E-01
2	3.80E-01	0.115137193	2	4.76E-01
3	3.70E-02	0.521183349	3	1.31E-01
6	4.58E-01	0.171115062	6	3.75E-01
24	4.49E+04	0.185826504	24	2.02E-01
10	8.60E-01	-0.123904149	10	2.69E+00
9	8.05E-01	0.009849165	9	9.91E-01
13	2.07E+00	-0.029858519	13	1.81E+00
10	8.98E+01	-0.441384653	10	2.47E+01
15	1.20E+02	-0.556715288	15	3.56E+02
9	1.91E+00	0.388997194	9	8.61E-02
8	1.08E+02	4	8	9.14E-12
11	1.29E+00	0.01168575	11	1.11E+00
11	6.60E-01	0.111652099	11	5.24E-01
8	7.64E-01	0	8	9.84E-01
2	5.64E-01	0	2	6.46E-01
27	7.70E-01	-0.046740702	27	7.98E+00
3	5.50E-01	-0.052164555	3	8.18E-01
4	6.24E-01	-0.073411601	4	9.78E-01
8	7.65E-01	-0.005182565	8	1.02E+00
7	1.08E+00	-0.328797546	7	5.35E+00
8	3.39E-01	-0.069029859	8	1.48E+00
8	2.05E-03	1	8	2.19E-03
5	4.74E-01	0.05440933	5	6.32E-01
1	5.43E-01	-0.016770956	1	6.24E-01
9	1.37E+00	-0.248056271	9	5.22E+00

3	3.37E+00	-0.013371142	3	7.23E-01
8	7.65E-01	0	8	9.84E-01
3	4.88E-01	0	3	6.93E-01
12	8.87E-01	-0.003909558	12	1.35E+00
10	5.65E+00	0.525702942	10	2.88E-02
11	4.99E-01	0.513833078	11	2.54E-02
7	1.63E+00	-0.126725967	7	1.81E+00
8	9.21E-01	-0.045152275	8	1.29E+00
1	5.36E-01	0.027233987	1	5.68E-01
5	1.08E+00	-0.542901468	5	8.12E+00
3	7.52E-01	0.159194382	3	4.17E-01
4	2.00E+00	-0.38134467	4	3.09E+00
6	6.80E-01	-0.249470813	6	2.85E+00
4	1.49E+00	-0.543069776	4	5.64E+00
3	3.48E-03	-0.283854218	3	1.71E+00
8	4.00E+00	-0.076639572	8	1.55E+00
1	2.55E-01	-0.28943181	1	1.11E+00
15	4.72E+00	-0.209538709	15	1.23E+01
8	1.27E+00	0	8	9.84E-01
6	2.90E+01	-0.555647196	6	1.24E+01
2	5.83E-01	0	2	6.46E-01
3	8.74E-01	-0.151176547	3	1.12E+00
6	6.02E-01	-0.753943192	6	3.23E+01
1	4.93E-01	-0.081970641	1	7.15E-01
3	5.93E-01	-0.004221691	3	7.02E-01
5	7.94E+00	0.158148106	5	4.05E-01
4	1.03E+00	-0.15909355	4	1.35E+00
1	5.78E-01	0.030710897	1	5.64E-01
3	2.86E+00	0.827587867	3	4.94E-02
6	7.23E-02	-0.277967164	6	3.26E+00
2	1.96E+00	0.447801651	2	1.97E-01
2	3.01E+01	-0.214073837	2	1.14E+00
5	2.71E+03	-1	5	1.96E+02
8	2.66E+00	-0.084730204	8	1.62E+00
3	1.88E+00	-0.161451382	3	1.16E+00
2	1.28E+00	-0.548740065	2	2.76E+00
3	6.05E+00	0.178822674	3	3.92E-01
4	6.98E-01	0.435383449	4	1.46E-01
9	1.77E+01	-1	9	1.76E+03
36	1.84E+01	0.033092868	36	3.51E+00
5	1.15E+01	-0.542017051	5	8.09E+00
37	3.85E+05	-0.405238203	37	4.83E+04
6	6.91E-01	0.027473398	6	7.49E-01
5	9.89E-01	0	5	7.97E-01
3	5.96E-01	0	3	6.93E-01
6	1.13E+00	-0.130958998	6	1.61E+00
1	5.36E-01	0	1	6.02E-01

3	6.28E-01	0.184853789	3	3.84E-01
2	5.64E-01	-0.216172086	2	1.14E+00
8	4.73E-01	0.060662391	8	6.88E-01
3	7.12E-01	0.152337829	3	4.26E-01
7	6.82E+00	2	7	2.35E-04
8	7.17E+00	0.767941991	8	1.06E-02
3	1.94E+00	-0.073344227	3	8.75E-01
1	5.36E-01	0.191081124	1	4.02E-01
15	1.08E+00	0.353071122	15	5.25E-02
7	2.54E+00	-0.004333732	7	9.39E-01
2	1.03E+00	0.926028107	2	5.56E-02
3	6.02E-01	0.423655175	3	1.79E-01
4	9.82E-01	0.393987904	4	1.71E-01
18	5.17E+01	0.699262153	18	7.24E-04
11	2.37E+02	0.679873865	11	7.28E-03
1	6.24E-01	0.149659374	1	4.39E-01
11	6.80E+00	0.033715455	11	9.43E-01
2	5.74E-01	0.31347691	2	2.81E-01
6	1.94E+00	1	6	1.57E-03
9	2.97E-01	0.717605475	9	1.04E-02
3	6.16E-01	0.426582289	3	1.78E-01
4	6.20E-01	0.115824192	4	4.82E-01
3	1.35E+00	0.655270567	3	8.56E-02
3	7.63E-01	-0.051520429	3	8.17E-01
2	5.48E-01	0	2	6.46E-01
1	5.36E-01	-0.015182096	1	6.21E-01
1	5.44E-01	0	1	6.02E-01
2	5.18E+01	0.768288561	2	8.44E-02
2	2.73E+01	0.553820746	2	1.49E-01
4	8.56E+01	0.188035613	4	3.68E-01
3	1.06E+01	0.801256047	3	5.37E-02
1	5.36E-01	0	1	6.02E-01
2	5.64E-01	0	2	6.46E-01
62	8.14E+13	-0.583552697	62	3.60E+10
11	1.57E+03	-0.707878348	11	2.51E+02
7	2.48E+02	-0.993747173	7	1.89E+02
13	5.83E-01	-0.127707048	13	4.20E+00
15	1.07E+00	-0.047029859	15	2.54E+00
4	3.99E+00	-0.328876161	4	2.54E+00
11	9.34E+00	-0.386115835	11	2.22E+01
79	2.11E-03	-0.106367458	79	1.63E+04
1	5.51E-01	0	1	6.02E-01
4	6.24E-01	0.000678547	4	7.41E-01
3	5.93E-01	0.315061038	3	2.53E-01
21	1.30E+00	-0.177912247	21	2.46E+01
9	1.81E+00	-0.12327298	9	2.34E+00
4	2.63E+00	-0.477286058	4	4.42E+00

9	8.44E-01	-0.046685489	9	1.43E+00
4	8.04E-02	0.769281163	4	4.21E-02
1	8.02E-02	1	1	2.94E-02
5	8.39E-02	-0.515276444	5	7.22E+00
7	4.56E-01	-0.02975435	7	1.08E+00
5	2.46E+00	-0.402941798	5	4.47E+00
39	5.18E+00	0.181818768	39	1.40E-01
8	7.79E-01	0.259512958	8	2.13E-01
14	1.32E+00	0.004285023	14	1.44E+00
3	9.30E-01	-0.11229309	3	9.91E-01
6	9.12E+03	-0.563592694	6	1.29E+01
5	8.77E+02	-0.776053719	5	2.20E+01
5	3.96E+01	-0.238133083	5	2.21E+00
3	3.65E+00	-1.42E-05	3	6.93E-01
4	1.09E-03	0	4	7.43E-01
3	2.09E-01	-0.066886768	3	8.58E-01
11	1.86E+02	-1	11	2.49E+03
8	9.09E-02	-0.201916319	8	3.24E+00
4	5.16E-01	-1	4	4.00E+01
6	4.81E-01	-0.039110645	6	1.03E+00
2	5.57E-01	-0.175856541	2	1.03E+00
4	6.21E-01	-0.040256238	4	8.64E-01
11	5.85E+00	0.469552663	11	3.54E-02
12	4.85E+05	1	12	1.04E-04
34	4.71E+12	2	34	6.68E-20
8	1.22E+01	-0.40297346	8	1.06E+01
13	8.91E+00	0.039197622	13	9.98E-01
1	1.10E+00	-0.430443392	1	1.49E+00
6	1.30E+03	-0.339848323	6	4.40E+00
9	2.43E+03	-0.569739763	9	4.15E+01
6	1.51E+00	0.174471664	6	3.69E-01
3	5.97E-01	-0.428534873	3	2.72E+00
13	1.23E+04	-1	13	8.38E+03
13	1.56E+03	-0.531443357	13	1.36E+02
5	1.57E+00	0.125129709	5	4.67E-01
1	5.36E-01	0	1	6.02E-01
36	1.20E+07	0.830633711	36	1.75E-07
3	6.00E-01	0.009841799	3	6.71E-01
7	6.63E-01	-0.063732524	7	1.29E+00
20	2.15E+01	-0.115102026	20	9.54E+00
13	7.40E-01	0.087455755	13	6.59E-01
10	9.24E-01	-0.005934439	10	1.18E+00
12	5.52E-01	0.020143527	12	1.11E+00
4	5.20E-01	-0.155658412	4	1.33E+00
16	8.34E-01	-0.004919607	16	1.82E+00
7	3.92E+00	-0.106202907	7	1.62E+00
12	1.10E+00	0.022235396	12	1.09E+00

3	5.99E-01	0.01158666	3	6.68E-01
4	1.56E+01	0.088119928	4	5.35E-01
3	1.71E-01	2	3	4.10E-03
10	9.99E-01	-0.118774134	10	2.60E+00
34	1.52E+00	0.120667049	34	5.48E-01
6	2.10E-02	0.156131292	6	4.03E-01
8	4.95E-01	0.131955328	8	4.52E-01
12	5.14E-03	0.105487971	12	5.57E-01
6	6.38E-01	-0.198409726	6	2.22E+00
17	1.11E+00	-0.235023261	17	2.34E+01
5	6.94E+00	0.219284296	5	3.12E-01
8	2.95E+00	0.056963333	8	7.03E-01
5	1.83E+00	0.392967847	5	1.49E-01
13	7.41E-03	2	13	9.91E-10
3	5.93E-01	0.003968661	3	6.84E-01
7	2.22E+00	0.156566669	7	3.96E-01
29	4.96E-04	0.504999679	29	6.96E-04
4	1.97E-01	-0.213728267	4	1.65E+00
6	4.90E-01	-0.122021133	6	1.54E+00
21	1.21E-03	-0.000754541	21	2.48E+00
4	6.09E-01	0	4	7.43E-01
14	1.52E+00	0.086143441	14	6.82E-01
1	5.36E-01	0	1	6.02E-01
20	2.50E+00	-0.009777664	20	2.58E+00
7	6.15E-01	-0.025165006	7	1.05E+00
6	5.78E-01	-0.051712772	6	1.10E+00
21	1.21E-01	0.019705313	21	1.90E+00
2	4.24E-01	0.102208573	2	4.93E-01
18	5.77E-01	-0.095867014	18	5.89E+00
9	6.48E-01	0.035265386	9	8.41E-01
1	5.17E-01	-0.017696984	1	6.25E-01
8	3.76E-01	-0.694135479	8	5.92E+01
11	2.22E+00	0.184954886	11	3.02E-01
7	1.39E+02	0.055450174	7	6.82E-01
11	6.55E-01	-0.216664546	11	6.21E+00
21	5.16E+06	0.67503845	21	3.92E-04
6	9.51E-01	2	6	8.38E-05
2	6.96E-01	-0.014570576	2	6.71E-01
7	8.47E-01	0	7	9.18E-01
5	7.47E+00	-0.482098299	5	6.26E+00
5	4.84E-01	-0.013670728	5	8.45E-01
3	8.53E+00	0.010883848	3	6.69E-01
4	4.97E+00	0.173939919	4	3.88E-01
4	8.89E+00	-0.961810361	4	2.70E+01
9	1.28E+02	-0.648872907	9	6.91E+01
8	2.18E+01	-0.518707801	8	2.10E+01
6	2.10E+03	-0.453513608	6	7.60E+00

5	6.44E+00	-0.182747697	5	1.74E+00
3	1.35E+00	-0.249342132	3	1.54E+00
3	6.02E-01	-0.001063276	3	6.95E-01
13	3.27E+01	1	13	2.08E-05
5	2.17E+00	0.148633073	5	4.22E-01
9	5.29E-01	0.025754188	9	8.95E-01
5	6.57E-01	0	5	7.97E-01
11	6.31E-01	-0.014813411	11	1.36E+00
31	6.61E-01	0.097834168	31	8.21E-01
9	6.90E-02	1	9	9.19E-05
7	8.39E-01	0.147587037	7	4.16E-01
2	5.80E-01	-0.005893232	2	6.56E-01
8	8.61E-01	-0.062755106	8	1.43E+00
11	4.68E+00	-0.09556881	11	2.50E+00
4	1.17E+00	-0.465083788	4	4.22E+00
12	7.66E+04	-0.986741957	12	3.75E+03
14	1.85E+00	-0.372575587	14	4.55E+01
5	1.69E+00	-0.109754424	5	1.27E+00
12	5.24E+00	-0.053438876	12	2.01E+00
31	3.76E+09	-0.004857073	31	5.42E+00
2	5.74E-01	1.30E-05	2	6.46E-01
3	5.98E-01	0	3	6.93E-01
5	7.85E-01	-0.172562905	5	1.67E+00
6	7.12E-01	-0.03779447	6	1.03E+00
43	2.39E+12	-0.50009733	43	2.91E+06
2	1.45E+00	0.20128028	2	3.79E-01
6	2.50E+00	-0.66794888	6	2.14E+01
1	5.36E-01	0	1	6.02E-01
3	4.79E-01	0	3	6.93E-01
1	4.99E-01	-0.017696984	1	6.25E-01
13	7.21E+00	-0.252626205	13	1.23E+01
10	2.07E+00	-0.192225254	10	4.34E+00
1	5.28E-01	-0.009679801	1	6.14E-01
46	7.13E+01	0.045651887	46	4.24E+00
8	4.43E-01	0.161595151	8	3.79E-01
2	1.94E-01	0.419231114	2	2.13E-01
6	6.80E-01	-0.002605533	6	8.66E-01
7	7.02E+00	-0.481993223	7	1.22E+01
5	1.10E-02	-0.121227376	5	1.34E+00
5	1.75E+01	-0.59261806	5	1.00E+01
3	1.05E+00	0.235141368	3	3.27E-01
5	3.39E-01	0.002662566	5	7.88E-01
1	3.03E-01	0.352845649	1	2.86E-01
12	1.15E-04	0.246723694	12	1.78E-01
5	5.07E-01	0.150723834	5	4.19E-01
4	7.23E-01	-0.097301543	4	1.07E+00
6	6.92E-01	0.262003268	6	2.42E-01

9	9.26E-01	2	9	1.18E-07
6	1.52E+01	0.32355685	6	1.80E-01
3	5.12E+01	-2	3	9.72E+01
5	8.50E+00	0.220982649	5	3.10E-01
3	9.30E-01	-0.36931282	3	2.25E+00
5	5.90E-01	-0.021698142	5	8.75E-01
11	1.25E+00	0.547002341	11	1.98E-02
2	6.18E-01	-0.148831381	2	9.58E-01
2	6.47E-01	-0.049766871	2	7.37E-01
7	2.07E+00	-0.295594615	7	4.47E+00
9	9.05E-01	-0.386491431	9	1.27E+01
4	1.12E+00	-0.001402541	4	7.47E-01
2	5.64E-01	0	2	6.46E-01
5	9.66E-01	-0.178823933	5	1.71E+00
2	3.17E-01	-0.567815232	2	2.91E+00
14	2.15E+03	-0.689356972	14	8.26E+02
5	2.11E-01	-0.191095661	5	1.80E+00
1	5.36E-01	0	1	6.02E-01
3	6.87E-01	0.723539907	3	6.88E-02
2	9.20E+00	-0.315992548	2	1.49E+00
19	7.87E+02	-0.493141201	19	7.42E+02
2	5.64E-01	-0.01208468	2	6.67E-01
2	5.76E-01	0	2	6.46E-01
4	2.29E+00	0.343330237	4	2.06E-01
2	7.37E-01	-0.210779962	2	1.13E+00
4	2.96E+00	-0.319059104	4	2.45E+00
3	1.35E+00	-0.253170985	3	1.55E+00
10	6.08E+02	-0.394042292	10	1.78E+01
5	2.35E+00	-0.828183528	5	2.75E+01
14	7.28E-01	-0.098859363	14	3.71E+00
2	5.64E-01	0	2	6.46E-01
1	5.85E-01	0	1	6.02E-01
6	4.75E+03	-0.943825298	6	8.07E+01
12	6.13E+02	0.020519882	12	1.10E+00
3	7.07E-01	-0.091957395	3	9.29E-01
3	5.93E-01	5.44E-06	3	6.93E-01
1	5.36E-01	0	1	6.02E-01
4	7.82E+00	-1	4	4.28E+01
19	7.85E+05	-0.585576894	19	2.22E+03
2	1.70E+01	-2	2	4.09E+01
1	6.50E+00	0.288122093	1	3.28E-01
6	5.58E+02	-0.532714873	6	1.11E+01
4	5.36E-01	-0.003497836	4	7.53E-01
4	2.01E+00	-0.560962356	4	6.03E+00
5	2.23E+00	-0.598356617	5	1.03E+01
6	4.39E+00	-0.155212129	6	1.81E+00
3	7.19E-01	-0.475222428	3	3.16E+00

3	6.02E-01	-0.053583346	3	8.22E-01
5	5.57E-01	0.049347581	5	6.46E-01
3	1.61E+00	-0.462104877	3	3.03E+00
20	1.01E-02	-0.2845963	20	7.82E+01
7	3.33E+01	-0.476162704	7	1.18E+01
49	2.79E+08	-0.26498325	49	3.03E+04
6	3.95E-01	0.041350229	6	7.01E-01
10	4.07E+00	-0.204743221	10	4.74E+00
3	8.36E-01	-0.305273394	3	1.84E+00
6	2.62E-01	-0.841651275	6	4.93E+01
8	5.13E-03	-0.12754718	8	2.09E+00
11	3.26E-01	0.067716268	11	7.30E-01
12	6.32E-01	-0.002886654	12	1.33E+00
12	7.48E-02	-0.062620574	12	2.16E+00
45	2.93E+07	0.376749015	45	7.49E-04
16	6.17E+08	1	16	1.13E-06
38	5.61E-05	0.128518943	38	4.69E-01
4	1.67E-02	0.14916365	4	4.26E-01
7	1.75E-04	0.762102663	7	1.54E-02
14	1.34E+02	0.594238587	14	6.51E-03
18	1.93E-01	0.460940708	18	1.08E-02
3	5.13E-02	-0.251946023	3	1.55E+00
9	2.28E-01	0.07273983	9	6.61E-01
15	1.99E-09	0.951769307	15	1.58E-04
1	4.44E-01	0.044974871	1	5.48E-01
2	5.98E-01	-0.024657997	2	6.89E-01
5	6.60E-01	0.693135985	5	4.12E-02
11	1.23E-01	-0.111565428	11	2.82E+00
11	2.47E+01	-0.238599152	11	7.33E+00
10	3.91E-01	-0.083536643	10	2.03E+00
5	1.97E-01	-0.005384782	5	8.16E-01
2	1.87E-01	-0.016392765	2	6.74E-01
18	7.65E-02	-0.501281707	18	5.80E+02
13	3.48E+01	-0.473489124	13	8.26E+01
6	5.33E-03	-1	6	1.39E+02
6	2.05E-03	-0.519938368	6	1.05E+01
23	3.74E-02	0.998248238	23	2.33E-06
2	4.72E-01	0.201332185	2	3.79E-01
7	2.04E-01	-0.027071936	7	1.06E+00
17	2.53E-01	0.097895032	17	6.45E-01
13	5.00E+01	1	13	4.12E-06
5	8.09E-01	0.07217262	5	5.86E-01
2	3.83E-01	-0.666778429	2	3.78E+00
11	2.71E-01	-0.265994217	11	9.00E+00
6	1.46E+00	-0.213217603	6	2.39E+00
7	3.49E-02	0.731818044	7	1.82E-02
3	5.69E-01	0.0301487	3	6.29E-01

57	2.76E-28	0.699630443	57	4.20E-09
11	8.49E-03	0.093331879	11	6.02E-01
3	8.58E-01	-0.068766254	3	8.63E-01
10	8.92E+00	-0.650179497	10	1.06E+02
20	1.90E-03	-0.508377403	20	1.26E+03
15	1.07E+01	-0.0871999	15	3.75E+00
7	1.25E+00	-0.083847592	7	1.44E+00
28	8.19E-01	0.412344671	28	4.03E-03
3	5.93E-01	0	3	6.93E-01
17	4.71E-01	0.010133555	17	1.66E+00
5	4.39E-01	-0.121385392	5	1.34E+00
5	6.57E-01	-0.060536111	5	1.03E+00
6	1.43E+00	0.044400211	6	6.91E-01
2	5.64E-01	-0.095546037	2	8.32E-01
14	1.17E+03	-0.151230953	14	5.99E+00
6	1.16E+01	-0.078650484	6	1.25E+00
3	6.13E+02	-0.798722806	3	8.86E+00
9	7.81E-01	0.23772878	9	2.28E-01
2	5.64E-01	-0.016592821	2	6.75E-01
3	6.54E-01	0.146377515	3	4.34E-01
8	7.78E-01	-0.912155648	8	2.14E+02
3	9.26E-01	-0.030718568	3	7.64E-01
11	7.35E-01	-0.029886721	11	1.52E+00
5	6.57E-01	0	5	7.97E-01
9	3.27E+01	-0.817206345	9	2.05E+02
1	6.49E-01	0.737233461	1	1.27E-01
6	1.30E+01	-0.793446523	6	3.91E+01
6	6.91E-01	0	6	8.55E-01
7	7.27E-01	0	7	9.18E-01
5	6.57E-01	0	5	7.97E-01
6	6.91E-01	0	6	8.55E-01
7	7.27E-01	0	7	9.18E-01
5	6.57E-01	0	5	7.97E-01
21	9.73E+02	0.276590768	21	6.83E-02
10	7.73E-01	-0.443607116	10	2.51E+01
8	7.70E-01	-0.00744039	8	1.03E+00
14	1.29E+00	-0.029089328	14	1.96E+00
7	6.23E+00	-0.453240141	7	1.04E+01
16	1.90E+00	0.315964537	16	6.80E-02
5	2.46E-01	-0.135807211	5	1.42E+00
5	5.26E-01	-0.103111871	5	1.24E+00
2	5.64E-01	-0.035628427	2	7.10E-01
21	2.18E-02	-0.177100901	21	2.43E+01
37	6.84E-01	0.180234111	37	1.53E-01
6	5.50E-02	-0.018354273	6	9.34E-01
4	4.71E-01	0.357603775	4	1.96E-01
4	6.20E-01	-0.091741902	4	1.05E+00

16	1.02E-03	0.183668373	16	2.63E-01
11	1.21E+01	-0.365744	11	1.91E+01
5	2.61E-01	0.021028016	5	7.29E-01
13	8.78E-02	0.00639306	13	1.32E+00
2	5.74E-01	-0.013486544	2	6.69E-01
5	9.25E-01	0	5	7.97E-01
18	7.26E+04	-0.136872566	18	9.36E+00
3	2.86E-01	-0.321560098	3	1.93E+00
43	6.34E-02	0.113591219	43	6.83E-01
4	6.27E-01	-0.450585913	4	4.00E+00
21	1.96E+01	0.125870234	21	4.81E-01
7	7.36E-01	0.031637781	7	7.75E-01
20	2.07E+01	-0.25634943	20	5.51E+01
11	3.16E+00	-0.217996504	11	6.27E+00
8	1.02E+01	-0.427127385	8	1.22E+01
16	6.12E-02	-0.475460474	16	2.25E+02
4	1.49E-02	0.015789387	4	7.01E-01
10	4.80E-04	-0.160396383	10	3.47E+00
14	6.11E+00	-0.311979655	14	2.61E+01
15	3.48E-01	-0.052250028	15	2.67E+00
12	1.15E+01	0.588921424	12	1.12E-02
1	9.02E-01	0.349498772	1	2.88E-01
10	6.61E-02	0.068346804	10	7.03E-01
4	3.48E-01	-0.158167487	4	1.34E+00
8	4.18E+02	-0.494677834	8	1.82E+01
2	6.07E-01	0.003695101	2	6.39E-01
4	8.52E-01	-0.071027674	4	9.69E-01
5	6.57E-01	0	5	7.97E-01
14	4.40E+00	-0.27270478	14	1.82E+01
31	2.40E+04	-0.393478782	31	6.83E+03
28	2.31E+00	0.485658922	28	1.18E-03
7	5.05E-03	-0.533731231	7	1.60E+01
6	2.74E-01	-0.07687189	6	1.24E+00
7	1.58E+00	-0.375885141	7	6.88E+00
18	1.25E-01	-0.622571608	18	2.29E+03
23	5.01E-01	-0.527166095	23	4.61E+03
12	1.18E+02	-0.08602498	12	2.61E+00
7	2.14E+00	0.116705857	7	4.91E-01
3	3.20E-01	0.480410039	3	1.50E-01
42	7.77E+10	0.457253092	42	1.58E-04
10	9.23E-02	0.051618532	10	7.90E-01
15	1.28E-02	0.28999004	15	9.67E-02
5	7.09E-01	-0.159562881	5	1.58E+00
1	5.67E-01	-0.020531116	1	6.29E-01
11	3.79E+00	-0.201271401	11	5.53E+00
8	1.61E+01	-0.437657179	8	1.30E+01
6	8.41E+00	-0.484443815	6	8.83E+00

27	7.44E-02	-0.347243608	27	1.04E+03
18	3.04E-01	-0.112080975	18	7.07E+00
2	7.68E-01	-0.064631755	2	7.66E-01
16	1.94E-01	-0.319556266	16	4.55E+01
10	6.59E+00	-0.211705091	10	4.97E+00
23	1.58E-04	-0.019360353	23	3.71E+00
10	4.55E+00	-0.949446112	10	8.61E+02
4	1.43E-01	0.130015261	4	4.57E-01
6	3.67E-01	0.597477776	6	4.81E-02
4	1.25E-01	-0.215820252	4	1.66E+00
6	7.83E-01	-0.845906654	6	5.04E+01
11	1.69E+04	-0.812933999	11	5.53E+02
16	9.20E+02	-0.599057295	16	7.97E+02
22	7.39E+00	-0.551380008	22	4.48E+03
5	1.83E-01	0.11897545	5	4.79E-01
17	6.60E+03	-1	17	2.76E+05
7	6.72E+00	-0.123887195	7	1.78E+00
6	4.72E-01	0.506207671	6	7.46E-02
16	2.07E-01	0.473010062	16	1.36E-02
10	1.38E+00	-0.247596756	10	6.39E+00
15	2.99E-02	-0.592475324	15	5.03E+02
9	5.12E-02	-0.26162258	9	5.70E+00
15	3.55E-02	0.025871166	15	1.25E+00
10	8.76E-03	-0.27089311	10	7.52E+00
8	7.27E-05	-0.021896893	8	1.12E+00
15	6.67E-04	0.095610819	15	6.37E-01
11	4.88E+00	0.810313079	11	2.72E-03
9	1.94E+00	0.161410083	9	3.73E-01
7	2.73E+00	-0.044591052	7	1.17E+00
16	5.30E+02	-0.497258548	16	2.81E+02
12	3.62E+00	-0.349406152	12	2.19E+01
7	4.26E+00	-0.395240458	7	7.63E+00
6	3.37E-02	0.152629747	6	4.10E-01
5	2.71E-01	-0.297292556	5	2.84E+00
10	1.05E-02	-0.202396347	10	4.66E+00
15	4.79E-01	-0.166840206	15	8.12E+00
29	5.47E+04	-0.929051268	29	4.07E+07
9	2.47E-04	0.5141051	9	3.85E-02
11	3.08E+00	0.275899704	11	1.52E-01
11	8.38E-02	0.493277774	11	2.96E-02
5	1.50E-01	0.083820819	5	5.57E-01
10	1.13E-01	-0.544477723	10	5.08E+01
4	1.82E-01	0.388456084	4	1.74E-01
5	1.06E+00	0.126451294	5	4.64E-01
3	1.53E-01	-0.158138087	3	1.15E+00
15	6.44E-03	0.236764711	15	1.62E-01
8	1.11E-01	0.667503975	8	1.92E-02

5	6.40E-01	-0.078641933	5	1.12E+00
18	4.59E-04	0.199071859	18	2.09E-01
1	5.82E-01	0	1	6.02E-01
16	1.71E+00	-0.231927854	16	1.86E+01
12	9.79E-06	0.259390337	12	1.61E-01
1	1.50E-01	-0.72323462	1	2.76E+00
3	1.24E+00	0	3	6.93E-01
26	5.03E-01	0.029783184	26	2.19E+00
2	5.97E-01	-0.054216149	2	7.45E-01
2	5.94E-01	-0.04993181	2	7.37E-01
22	6.62E-02	0.055297569	22	1.25E+00
5	5.45E-02	-0.131371414	5	1.40E+00
12	2.87E-06	0.14551234	12	4.03E-01
5	5.88E-02	-0.003189767	5	8.08E-01
11	7.52E-01	-0.310624046	11	1.26E+01
7	1.11E+00	-2	7	1.82E+04
10	3.12E-01	-0.325584973	10	1.10E+01
2	4.13E-01	0.051355878	2	5.64E-01
16	1.94E-01	-0.032032185	16	2.40E+00
8	4.73E+00	-0.245942119	8	4.20E+00
3	3.33E-01	-0.005118068	3	7.04E-01
20	7.24E-03	-0.699862916	20	1.35E+04
8	9.60E+00	-0.843455112	8	1.43E+02
3	5.40E-01	-0.074779368	3	8.79E-01
9	7.64E-01	-0.283357629	9	6.56E+00
18	7.23E-02	0.212082934	18	1.80E-01
44	8.98E+04	1	44	2.27E-13
12	8.10E+06	-0.361830273	12	2.42E+01
4	2.28E+01	-1	4	6.05E+01
38	5.17E-03	-0.336356195	38	1.40E+04
27	1.09E-05	-0.011873495	27	4.54E+00
14	5.88E+00	0.402160002	14	3.78E-02
3	5.41E-01	-0.216074071	3	1.38E+00
9	1.41E+02	-0.38996758	9	1.30E+01
7	4.60E+04	-0.199853663	7	2.68E+00
7	3.09E+02	-0.202582191	7	2.72E+00
50	3.14E-01	-0.359460253	50	5.64E+05
16	1.32E+01	-0.489960432	16	2.61E+02
3	1.45E-01	0.423884956	3	1.79E-01
4	1.24E-02	-0.212345635	4	1.64E+00
13	6.84E-01	-0.342976687	13	2.68E+01
3	2.06E+00	0.630200924	3	9.27E-02
4	9.96E-01	0.184277775	4	3.74E-01
3	3.05E+00	-0.272642999	3	1.65E+00
12	4.24E+01	-0.527574822	12	9.21E+01
21	1.55E+01	-0.094864388	21	8.38E+00
14	4.75E+03	-0.375833509	14	4.68E+01

20	1.60E+00	-0.193344041	20	2.52E+01
6	3.15E+00	-0.239778927	6	2.72E+00
8	1.64E+01	0.190497484	8	3.20E-01
7	9.10E-01	-1	7	3.49E+02
4	3.17E+00	-0.019191031	4	7.98E-01
13	1.67E+03	-0.252685838	13	1.23E+01
6	3.72E+02	-0.276907044	6	3.25E+00
7	2.84E-01	-0.035629809	7	1.11E+00
3	4.39E-01	0.02148203	3	6.47E-01
4	6.19E-01	0.081342391	4	5.49E-01
2	1.03E-01	-1	2	1.10E+01
1	6.68E-01	0	1	6.02E-01
7	5.62E+01	-0.219359487	7	2.97E+00
3	4.89E-01	-0.179058609	3	1.23E+00
1	8.81E-01	0.191081124	1	4.02E-01
10	2.19E+01	-0.757022094	10	2.24E+02
3	6.83E-01	-0.163114183	3	1.17E+00
2	2.34E+00	-0.540073884	2	2.70E+00
12	3.92E+05	-1	12	8.85E+03
2	5.10E-01	-0.102330431	2	8.47E-01
6	5.08E-01	-0.053965793	6	1.11E+00
1	5.10E-01	0	1	6.02E-01
2	4.93E-01	0	2	6.46E-01
4	6.19E-01	0.20571361	4	3.45E-01
3	6.37E-01	-0.428069004	3	2.72E+00
1	4.42E-01	-0.829894986	1	3.46E+00
7	1.06E+00	-0.229864797	7	3.15E+00
2	5.07E-01	-0.278234203	2	1.35E+00
2	5.61E-01	0	2	6.46E-01
4	2.44E-01	0.232163981	4	3.12E-01
18	7.61E-04	0.1113083	18	5.64E-01
6	4.84E+00	-0.863007139	6	5.47E+01
5	5.04E-01	1	5	1.71E-03
17	1.63E+02	-0.381971523	17	1.14E+02
5	3.96E+00	-0.348593965	5	3.54E+00
6	8.58E-01	-0.449880487	6	7.47E+00
33	5.36E-02	2	33	2.37E-13
3	2.62E+00	-0.448430095	3	2.90E+00
1	1.48E+00	-0.972831104	1	4.67E+00
7	1.63E-01	-0.223148775	7	3.03E+00
10	6.31E+00	-0.308886359	10	9.80E+00
5	8.12E-01	-0.166310397	5	1.62E+00
4	1.17E-01	0.02098955	4	6.87E-01
4	9.16E+00	-1	4	4.00E+01
28	7.50E+02	-0.064598735	28	1.18E+01
7	7.46E+00	-1	7	1.09E+03
16	1.73E-01	-0.960511748	16	3.23E+04

80	7.12E+26	0.854094144	80	3.33E-15
49	2.47E+26	-0.514495722	49	3.39E+07
5	1.98E+00	-0.189537461	5	1.79E+00
41	5.43E+00	0.069965537	41	1.89E+00
42	6.11E-08	0.464653787	42	1.32E-04
8	9.42E-01	-0.061994969	8	1.42E+00
6	1.58E+00	-0.419531768	6	6.46E+00
14	8.82E+00	0.011923481	14	1.35E+00
3	5.33E+00	-0.750386733	3	7.60E+00
6	6.87E-01	-0.059117887	6	1.14E+00
11	6.28E+00	-0.20941379	11	5.88E+00
2	1.19E+00	-0.398931767	2	1.86E+00
9	1.07E+00	-0.118936341	9	2.27E+00
18	8.78E+03	-0.163730301	18	1.27E+01
10	4.60E-01	0.145358651	10	4.10E-01
20	2.00E+10	-0.132868098	20	1.19E+01
1	5.36E-01	0	1	6.02E-01
10	1.01E+03	-0.184006904	10	4.10E+00
9	1.98E+00	-0.065332028	9	1.61E+00
1	5.36E-01	0	1	6.02E-01
2	5.75E-01	0	2	6.46E-01
5	2.82E+01	-0.580772061	5	9.55E+00
6	4.34E+00	-0.076223179	6	1.23E+00
2	5.72E-01	-0.271535363	2	1.33E+00
6	2.42E+00	-0.110480881	6	1.46E+00
6	1.94E+00	-0.465584592	6	8.06E+00
4	6.24E-01	0	4	7.43E-01
7	2.83E+00	0.066862603	7	6.41E-01
3	1.23E+00	-0.353617568	3	2.14E+00
4	1.91E+00	-0.598011936	4	6.93E+00
2	5.64E-01	0	2	6.46E-01
4	5.25E+00	-0.305655858	4	2.33E+00
6	1.68E+02	-0.855356252	6	5.27E+01
6	4.09E+02	0.399128492	6	1.25E-01
5	8.55E+00	-0.4715843	5	5.99E+00
13	2.26E+04	-0.454610272	13	7.02E+01
6	1.25E+00	-0.184728082	6	2.08E+00
4	7.98E+00	-1	4	8.44E+01
6	8.72E-01	-0.106383928	6	1.43E+00
4	7.74E-01	-0.012614261	4	7.79E-01
3	4.21E-01	0.226821979	3	3.36E-01
3	7.07E-01	-0.200094074	3	1.31E+00
9	8.57E-05	0.292053964	9	1.61E-01
1	5.63E-02	0.141803914	1	4.46E-01
16	1.30E-05	-0.120277933	16	5.92E+00
9	3.33E-02	0.030307925	9	8.69E-01
8	6.61E-02	0.164585674	8	3.73E-01

8	4.60E-02	0.161867483	8	3.79E-01
13	4.18E-05	0.039263963	13	9.98E-01
4	2.72E-01	0.045955053	4	6.26E-01
5	8.65E-01	-1	5	8.81E+01
4	1.44E+00	-0.317199846	4	2.43E+00
5	1.90E+01	-0.832812634	5	2.81E+01
23	4.08E+07	-0.772838541	23	1.45E+05
4	9.45E-01	-0.097931585	4	1.07E+00
11	4.04E+02	-1	11	3.15E+03
4	3.24E+00	-0.302913135	4	2.30E+00
56	2.31E+02	0.143978979	56	2.90E-01
7	3.05E-03	0.040096091	7	7.40E-01
6	6.91E-01	0	6	8.55E-01
4	6.24E-01	0	4	7.43E-01
6	6.91E-01	0	6	8.55E-01
3	5.93E-01	-0.012748499	3	7.22E-01
13	7.01E-01	-0.018663428	13	1.64E+00
3	9.14E-01	0	3	6.93E-01
3	1.09E+00	0.113186503	3	4.83E-01
6	2.69E+01	-0.610130521	6	1.62E+01
12	1.55E+01	-0.373000068	12	2.65E+01
6	3.23E-02	0.733107617	6	2.50E-02
22	2.32E-03	-0.964604987	22	1.18E+06
9	1.34E+01	0.028269487	9	8.80E-01
9	4.87E-01	-0.18492134	9	3.48E+00
10	1.39E+00	0.23714248	10	2.16E-01
33	1.52E+08	2	33	1.51E-14
13	4.66E+00	0.778599195	13	1.71E-03
5	9.46E-01	0.243580037	5	2.81E-01
9	2.62E+00	-0.114025956	9	2.20E+00
4	5.34E-01	-0.160968908	4	1.36E+00
20	5.41E+00	-0.021675676	20	2.99E+00
7	5.69E+00	-0.076676865	7	1.38E+00
3	1.80E-01	0.045659525	3	5.99E-01
17	1.32E+01	1	17	8.53E-06
4	1.23E+01	-1	4	1.01E+02
4	1.73E-01	-0.206262893	4	1.61E+00
2	1.31E+00	-0.605698226	2	3.21E+00
1	7.35E-01	-0.187918043	1	8.94E-01
8	1.27E-01	-0.312011261	8	6.21E+00
7	6.39E+00	-0.437906989	7	9.59E+00
2	1.30E+00	-0.146041753	2	9.51E-01
3	6.51E-01	0.193648296	3	3.73E-01
5	2.06E+00	0.1750267	5	3.77E-01
9	3.08E+02	-1	9	2.93E+03
18	1.21E+06	-0.751303198	18	9.84E+03
10	5.47E-01	-0.390616983	10	1.74E+01

27	1.32E-07	-0.438987231	27	4.59E+03
1	5.36E-01	-0.016770956	1	6.24E-01
7	1.01E+02	-0.78961253	7	6.32E+01
5	1.97E+00	-0.235554398	5	2.18E+00
4	2.00E+01	0.155650094	4	4.16E-01
25	3.61E+06	-0.489628162	25	5.33E+03
10	2.64E+00	-0.538341723	10	4.87E+01
12	3.53E+00	-0.131217505	12	3.76E+00
16	3.59E+01	-0.438666527	16	1.54E+02
24	3.20E+09	-0.463336562	24	2.60E+03
6	8.58E+02	-0.492141529	6	9.16E+00
6	2.25E+05	-1	6	1.60E+02
17	3.96E+02	-0.808684172	17	1.13E+04
18	1.64E-06	0.509127458	18	6.23E-03
2	1.98E-03	-0.44766224	2	2.11E+00
11	1.74E-04	-0.138760066	11	3.45E+00
9	1.35E-05	1	9	1.54E-03
6	6.95E-03	2	6	5.42E-06
7	1.27E-01	-0.458065832	7	1.07E+01
9	1.39E+01	0.104269248	9	5.39E-01
4	5.82E-02	0.022885148	4	6.82E-01
12	8.37E-04	-0.297423699	12	1.44E+01
12	1.48E-01	-0.072078311	12	2.33E+00
13	3.62E-02	0.340275767	13	7.46E-02
15	2.00E+06	-1	15	2.89E+04
42	3.80E+07	-0.278083992	42	9.33E+03
17	1.55E+02	-0.575140611	17	9.14E+02
45	4.53E-01	-0.045558575	45	4.33E+01
3	1.62E-02	0.607173875	3	9.98E-02
5	2.39E+00	0.398735583	5	1.45E-01
4	2.31E-01	-0.499264679	4	4.79E+00
6	1.01E-01	-0.158506945	6	1.84E+00
14	2.98E-03	-0.6495524	14	5.74E+02
1	5.16E-01	-0.030206086	1	6.41E-01
11	1.44E-01	-0.397569119	11	2.42E+01
2	5.65E-01	0	2	6.46E-01
15	6.62E+02	-0.419537908	15	9.41E+01
8	2.51E+01	-0.539939299	8	2.38E+01
11	4.21E+00	-0.292441125	11	1.10E+01
9	6.84E-01	0.153850175	9	3.92E-01
7	4.48E-01	-0.123425494	7	1.78E+00
10	8.35E-01	0.521027812	10	2.97E-02
2	5.97E-01	0.136183881	2	4.50E-01
1	5.36E-01	-0.017696984	1	6.25E-01
13	2.25E+00	-0.330663415	13	2.41E+01
24	3.07E+05	-0.208845381	24	6.36E+01
25	7.61E+01	-0.293414119	25	2.75E+02

2	7.29E-01	-1	2	2.72E+01
19	3.63E-01	-0.501935512	19	8.23E+02
11	9.43E+01	-0.102849395	11	2.64E+00
4	5.07E-01	-0.504461554	4	4.89E+00
7	2.71E+01	-0.981096042	7	1.76E+02
6	3.21E+00	-1	6	1.12E+02
10	4.21E+01	0.477673827	10	4.03E-02
16	4.75E+00	0.108600941	16	5.68E-01
9	6.34E-01	0.152222786	9	3.96E-01
14	5.27E-01	-0.183525537	14	8.05E+00
20	2.88E+00	-0.598739769	20	3.85E+03
18	1.63E-06	-0.117062552	18	7.48E+00
18	2.71E-13	1	18	4.49E-07
4	9.57E-01	0.885372484	4	2.73E-02
7	1.84E-02	0.133723048	7	4.48E-01
17	3.58E-10	0.566545407	17	4.12E-03
6	3.59E-01	0.294692376	6	2.07E-01
10	1.32E-01	0.320224611	10	1.21E-01
1	5.36E-01	-0.050390827	1	6.69E-01
29	3.85E+02	0.231436748	29	7.88E-02
6	5.57E-01	-0.090021578	6	1.32E+00
5	7.74E-01	0.684013555	5	4.28E-02
4	2.21E+00	0.411134732	4	1.60E-01
7	9.42E+00	-1	7	2.83E+02
36	2.33E-06	-0.177844739	36	2.99E+02
1	3.88E-01	-0.072048094	1	7.01E-01
4	1.59E-01	0.243798731	4	2.99E-01
18	3.09E-03	0.431395885	18	1.50E-02
99	2.91E-08	-0.112939895	99	3.02E+05
15	1.79E-05	-0.001703502	15	1.64E+00
8	2.77E+00	-0.641126282	8	4.33E+01
22	2.24E+02	-0.499815152	22	2.23E+03
17	5.46E-02	0.345915278	17	4.45E-02
5	1.72E-01	-0.105658297	5	1.25E+00
11	4.09E-07	1	11	3.40E-04
19	6.56E-03	0.057107133	19	1.08E+00
118	7.73E-08	-0.042967965	118	3.74E+04
1	5.39E-01	-0.117289247	1	7.71E-01
57	1.51E-01	-0.510285122	57	4.83E+08
5	8.94E-06	-0.641974376	5	1.24E+01
5	6.17E-02	0.047298764	5	6.51E-01
5	9.45E-02	-0.32888336	5	3.25E+00
10	4.23E-01	-0.194071621	10	4.40E+00
4	3.70E-01	-0.097787421	4	1.07E+00
4	5.24E-01	-0.089785389	4	1.04E+00
11	6.17E-02	0.780931935	11	3.40E-03
17	6.67E-03	-0.043119997	17	2.95E+00

13	2.81E-02	-0.109376164	13	3.59E+00
11	7.37E-01	-0.182274663	11	4.79E+00
13	1.14E+01	-0.269672577	13	1.43E+01
13	1.29E+04	-0.630685417	13	3.20E+02
10	1.15E+00	-0.205668635	10	4.77E+00
4	9.50E-01	0.064878095	4	5.83E-01
6	4.51E+00	-0.793552359	6	3.91E+01
21	1.96E-03	0.070273054	21	9.88E-01
1	5.05E-01	0.011657501	1	5.87E-01
35	9.49E-02	0.220144766	35	7.14E-02
15	5.71E-01	-0.283356347	15	2.51E+01
12	7.44E-01	1	12	4.02E-04
19	8.17E-03	0.223572841	19	1.50E-01
6	7.02E+02	-1	6	1.19E+02
7	1.72E+00	-0.856036063	7	9.02E+01
19	2.28E-01	-0.015494693	19	2.56E+00
11	1.48E+00	-0.253654644	11	8.21E+00
2	9.18E-01	-0.109918098	2	8.64E-01
15	4.19E+00	-0.246331372	15	1.75E+01
13	1.64E+00	-0.115865455	13	3.79E+00
2	7.07E-01	-0.015388832	2	6.73E-01
21	7.34E-02	-0.700323324	21	2.13E+04
14	3.49E+00	-0.580019817	14	3.04E+02
19	5.62E-06	-0.521722099	19	1.04E+03
1	2.67E-01	0.01065272	1	5.89E-01
2	5.69E-02	0.000620864	2	6.45E-01
22	3.27E-11	0.249361648	22	9.11E-02
6	4.06E-01	0.028328534	6	7.46E-01
15	7.54E-01	-0.160471226	15	7.63E+00
8	3.61E-01	-0.46087083	8	1.49E+01
10	3.23E-01	-0.686873624	10	1.37E+02
12	5.35E+00	-0.088987759	12	2.67E+00
4	8.20E+00	-0.501519605	4	4.83E+00
10	3.77E-03	-0.103380359	10	2.33E+00
8	6.32E-02	-0.054734262	8	1.36E+00
11	6.30E-02	0.66428306	11	8.18E-03
7	3.11E+00	0.690473436	7	2.27E-02
9	4.16E-02	-0.137378595	9	2.56E+00
12	5.82E-01	0.064739121	12	7.73E-01
7	6.61E+00	0.677714673	7	2.43E-02
8	1.61E+00	2	8	6.87E-05
7	2.66E+00	0.513020573	7	5.87E-02
63	1.70E+01	1	63	1.94E-21
4	2.68E+00	-1	4	6.04E+01
9	6.26E+02	-0.48343165	9	2.38E+01
3	7.45E-01	1	3	2.30E-02
16	1.36E+00	0.233577514	16	1.58E-01

5	3.21E+01	-0.262601677	5	2.45E+00
12	1.77E+01	-0.367983982	12	2.54E+01
9	1.30E+01	-0.227002042	9	4.56E+00
26	9.89E-08	0.235200314	26	8.77E-02
12	1.81E+00	-1	12	9.01E+03
2	3.19E-01	-0.164394493	2	9.98E-01
8	1.92E+01	0.187513847	8	3.25E-01
32	9.06E+06	0.316418915	32	1.34E-02
37	2.45E+15	2	37	2.94E-16
45	9.54E+11	2	45	1.66E-26
8	4.51E-03	0.654214459	8	2.07E-02
10	3.18E+00	-0.28855698	10	8.51E+00
13	1.31E+04	-1	13	4.21E+05
7	3.56E+03	0.396356548	7	1.10E-01
3	1.18E-02	-0.673334428	3	5.94E+00
5	2.49E-01	-1	5	2.77E+02
11	2.71E+01	-0.820290088	11	5.84E+02
11	4.74E-01	-0.743059435	11	3.27E+02
3	1.99E-02	-0.817507503	3	9.41E+00
3	3.47E+00	-0.512495356	3	3.56E+00
1	4.73E-01	0	1	6.02E-01
11	2.61E-02	-0.206139334	11	5.74E+00
5	6.57E-01	0.097058337	5	5.27E-01
11	3.80E+00	0.609200148	11	1.24E-02
6	4.32E+00	-0.737756602	6	2.99E+01
7	1.43E+00	-0.253940129	7	3.58E+00
7	3.73E+00	0.184718361	7	3.41E-01
6	1.63E+00	0.38891214	6	1.31E-01
14	8.30E-01	-0.095603125	14	3.60E+00
1	6.12E-01	0.008553419	1	5.91E-01
31	5.51E-03	0.021446141	31	3.34E+00
2	1.87E-05	0.81825352	2	7.39E-02
7	1.40E-08	0.342327395	7	1.46E-01
3	2.08E-01	-0.196667096	3	1.30E+00
9	1.09E+00	-0.149982867	9	2.78E+00
15	7.85E-11	0.753423133	15	1.08E-03
5	4.68E-05	-0.13649082	5	1.43E+00
7	3.65E-05	-0.018006837	7	1.01E+00
7	2.40E-01	-0.825534178	7	7.66E+01
6	7.14E-02	-0.986837462	6	9.93E+01
16	4.46E+00	-0.669672802	16	1.64E+03
11	6.03E+00	-0.15286172	11	3.84E+00
29	5.42E+02	3	29	2.60E-19
12	7.46E-03	0.367821865	12	6.70E-02
2	7.00E-01	-0.412149647	2	1.92E+00
5	1.27E+01	-0.12974688	5	1.39E+00
11	6.05E-01	-0.080258013	11	2.22E+00

7	1.78E-02	0.121966647	7	4.77E-01
5	2.49E+02	0.056418551	5	6.26E-01
3	9.91E-01	-0.186555574	3	1.26E+00
4	7.37E+00	-0.134219743	4	1.23E+00
6	4.52E+00	-0.442309182	6	7.20E+00
9	8.86E+00	-0.478447758	9	2.31E+01
43	1.87E-02	-0.22954384	43	3.48E+03
1	5.36E-01	0	1	6.02E-01
13	5.52E-02	0.100585796	13	5.88E-01
2	1.98E-01	-0.021182363	2	6.83E-01
7	1.14E+00	-0.737250744	7	4.77E+01
9	8.45E-03	0.591523828	9	2.33E-02
14	4.70E+01	1	14	1.07E-04
17	4.19E-01	-0.01983055	17	2.29E+00
22	8.27E-02	-0.414327388	22	7.05E+02
4	1.62E-01	-0.211051353	4	1.63E+00
10	1.85E-02	-0.50952792	10	3.98E+01
39	3.16E-03	0.375107651	39	1.74E-03
27	5.09E+03	2	27	2.80E-12
27	5.95E+01	2	27	1.39E-13
2	6.25E-01	0.105665777	2	4.88E-01
8	1.98E+01	0.744242973	8	1.22E-02
3	5.30E-01	-0.063627737	3	8.49E-01
21	4.25E+00	-0.250816767	21	6.32E+01
13	1.12E+03	0.684112558	13	3.86E-03
9	2.90E-02	-0.79689745	9	1.79E+02
2	2.75E-01	0.943414058	2	5.31E-02
12	1.12E+00	1	12	9.65E-06
13	1.31E-03	0.130971653	13	4.53E-01
16	3.07E-02	-0.112391078	16	5.46E+00
6	5.50E-01	-0.24528852	6	2.79E+00
5	6.57E-01	0.090964906	5	5.40E-01
21	1.49E-01	-0.977794215	21	7.75E+05
10	2.86E-03	0.038665102	10	8.65E-01
8	2.97E-01	-0.287428243	8	5.37E+00
5	6.58E-04	-1	5	3.63E+02
25	8.75E-01	-0.13191439	25	2.39E+01
6	1.27E+01	-1	6	8.36E+02
8	7.02E+00	-0.361133534	8	8.30E+00
4	2.05E-01	-0.19712631	4	1.55E+00
11	1.58E-02	-0.528783476	11	6.51E+01
7	1.05E-01	-0.847713241	7	8.63E+01
17	1.32E-04	-0.797501612	17	1.00E+04
12	2.10E-06	0.193673121	12	2.73E-01
14	2.72E-05	0.485642966	14	1.76E-02
20	3.56E+00	-0.657499777	20	7.99E+03
6	1.03E-01	-0.433788195	6	6.91E+00

8	1.48E-02	-0.178817444	8	2.83E+00
7	2.41E-02	0.955232152	7	5.48E-03
6	2.16E-01	-0.544202419	6	1.18E+01
7	1.09E-02	-0.205069321	7	2.75E+00
2	1.14E+00	-0.169571223	2	1.01E+00
3	4.98E-01	-0.606033293	3	4.79E+00
12	9.77E+05	-0.650741264	12	2.49E+02
2	5.93E-01	0.069420808	2	5.37E-01
3	1.34E+00	-0.015590307	3	7.28E-01
2	5.37E-01	-0.286488531	2	1.38E+00
8	4.22E+02	-1	8	4.11E+02
16	4.07E-03	-0.023239182	16	2.19E+00
7	4.14E-01	-0.006623017	7	9.51E-01
5	2.35E+00	0.385795457	5	1.53E-01
10	8.30E-03	-0.040383487	10	1.50E+00
7	5.10E-01	2	7	1.07E-04
6	8.25E-01	-2	6	2.72E+03
9	2.16E-02	0.828026257	9	5.09E-03
3	3.50E+00	-0.68715257	3	6.21E+00
64	8.63E+03	-0.1895573	64	4.87E+04
23	5.94E-01	0.272790011	23	6.14E-02
1	5.66E-01	-0.338045208	1	1.23E+00
4	7.28E-01	-0.029888561	4	8.31E-01
37	4.49E-05	-0.177240872	37	3.49E+02
7	2.06E+00	-0.154965439	7	2.11E+00
30	8.81E-02	-0.719844629	30	1.73E+06
2	2.76E-01	-0.845420589	2	6.06E+00
5	7.96E-02	-0.384600371	5	4.13E+00
8	2.20E+00	-0.436279273	8	1.29E+01
6	6.89E-01	0.211536109	6	3.09E-01
4	4.51E-03	-0.344037802	4	2.68E+00
4	6.24E-01	-0.007820723	4	7.65E-01
5	6.57E-01	-0.224823909	5	2.08E+00
15	3.54E+01	-0.305377676	15	3.11E+01
25	1.83E+04	-0.634410925	25	4.76E+04
4	3.26E-02	-1	4	9.34E+01
11	2.97E-04	0.550768037	11	1.92E-02
2	4.09E-02	2	2	1.04E-02
11	6.04E-04	0.151358278	11	3.89E-01
11	3.54E-03	0.212333003	11	2.46E-01
1	6.36E-03	2	1	8.46E-03
8	2.70E-04	0.630003071	8	2.39E-02
5	5.60E-01	0.038920761	5	6.75E-01
5	1.58E-01	-0.387779386	5	4.18E+00
13	3.94E-01	-0.163014663	13	5.70E+00
18	2.09E+00	0.09049049	18	7.13E-01
25	8.15E+00	-0.163178965	25	3.83E+01

8	1.67E+00	-0.227622804	8	3.77E+00
29	4.37E-05	-0.112253359	29	3.00E+01
4	3.52E-01	-0.071898566	4	9.72E-01
16	2.28E+01	-0.242541645	16	2.07E+01
3	3.20E+01	-0.844952659	3	1.03E+01
8	1.63E+01	-0.103500879	8	1.81E+00
7	3.58E-01	-0.489051033	7	1.26E+01
6	2.15E+01	-0.546918116	6	1.19E+01
7	1.16E+02	-0.224273532	7	3.05E+00
5	8.71E+00	-0.535237638	5	7.86E+00
3	8.15E-01	0.018969898	3	6.52E-01
10	1.87E+00	-0.133379032	10	2.88E+00
40	2.61E-04	0.164360374	40	2.04E-01
3	4.85E+02	-1	3	3.85E+01
11	4.33E-02	0.229477075	11	2.16E-01
7	1.05E+00	-0.267101967	7	3.84E+00
6	3.72E-01	-0.167163696	6	1.91E+00
6	1.65E+02	-0.761000995	6	3.34E+01
31	8.63E+00	-0.161672979	31	9.66E+01
10	2.32E-02	3	10	5.09E-10
4	4.15E-01	0.596341105	4	8.02E-02
13	1.36E+04	-0.022774259	13	1.70E+00
5	5.88E-01	-0.72301445	5	1.75E+01
4	4.36E-01	-0.139280731	4	1.25E+00
15	1.86E-09	2	15	9.87E-08
11	3.45E-05	1	11	1.15E-04
26	1.11E+01	0.325009387	26	2.15E-02
1	5.64E-02	0.977938234	1	7.67E-02
1	2.22E-01	0.869829156	1	9.63E-02
11	2.37E-01	0.036653062	11	9.22E-01
1	7.98E-01	0.953558832	1	8.07E-02
2	5.04E-01	-0.123866375	2	8.97E-01
9	2.31E-02	0.015228201	9	9.57E-01
3	2.04E-01	-0.788392254	3	8.58E+00
3	6.32E-01	-0.102922004	3	9.62E-01
13	5.31E+00	0.622542234	13	6.56E-03
14	3.95E+00	-0.464490324	14	1.05E+02
11	1.10E+00	-0.103839977	11	2.66E+00
2	6.41E-01	-0.077325646	2	7.93E-01
14	9.95E-04	-0.191016046	14	8.63E+00
8	7.80E-01	0.923333684	8	4.23E-03
2	1.15E-01	0.485941801	2	1.78E-01
12	5.36E-05	0.314165969	12	1.03E-01
18	6.25E-01	-0.032413773	18	2.87E+00
30	6.37E-03	0.10863255	30	6.66E-01
12	9.91E+01	-0.687858385	12	3.36E+02
18	9.46E-01	-0.142826014	18	1.00E+01

2	2.48E+00	-0.884079276	2	6.72E+00
8	7.92E-01	-0.003358255	8	1.00E+00
8	1.76E-01	-0.121354941	8	2.01E+00
10	2.42E-01	-0.157570766	10	3.41E+00
8	1.63E+01	-1	8	1.91E+03
4	1.33E+00	0.202009604	4	3.50E-01
9	7.34E+02	-0.618996141	9	5.70E+01
2	4.98E+00	-0.652812498	2	3.64E+00
3	4.14E-01	0.078054426	3	5.40E-01
1	5.36E-01	0	1	6.02E-01
7	8.75E-01	-0.785793021	7	6.19E+01
2	6.58E-01	-0.075235691	2	7.88E-01
1	9.80E-01	-0.076666383	1	7.07E-01
3	3.02E-01	-0.540850289	3	3.89E+00
3	1.21E+00	0.49378264	3	1.43E-01
6	1.42E+00	-0.202919222	6	2.27E+00
3	2.44E+00	-0.530972792	3	3.77E+00
19	6.88E+01	0.170284987	19	2.83E-01
10	4.51E-02	0.050279804	10	7.97E-01
15	9.87E-05	-0.738724249	15	2.08E+03
11	1.80E-04	-0.088397879	11	2.36E+00
12	3.13E-04	-0.153731772	12	4.51E+00
4	3.96E-02	0.162508258	4	4.05E-01
16	1.52E-14	1	16	9.47E-06
17	4.94E-03	0.222130463	17	1.69E-01
5	1.01E-01	-1	5	8.27E+01
12	5.97E-04	0.494315046	12	2.41E-02
3	4.79E-01	0.037047967	3	6.16E-01
9	2.16E-01	1	9	1.47E-03
40	4.17E-01	0.172246339	40	1.70E-01
3	2.68E-01	0	3	6.93E-01
35	9.33E+03	0.020993886	35	4.27E+00
6	1.85E+00	0.187483968	6	3.47E-01
9	4.78E-02	0.109999393	9	5.20E-01
10	4.78E-02	-0.141053963	10	3.04E+00
12	5.81E+01	2	12	1.46E-07
22	3.23E-01	1	22	5.91E-09
1	5.47E-01	0	1	6.02E-01
11	3.34E+00	-0.167027332	11	4.27E+00
14	1.17E+01	-0.657506663	14	6.17E+02
2	2.68E+00	-0.045182996	2	7.28E-01
16	2.04E+01	2	16	7.36E-08
12	1.90E+01	-0.405906196	12	3.45E+01
11	1.30E-01	-0.034280964	11	1.57E+00
14	4.34E+01	-0.800907813	14	2.29E+03
2	8.98E-01	-0.055227578	2	7.47E-01
10	1.95E+00	0.258382502	10	1.86E-01

5	1.59E-01	-0.58924325	5	9.90E+00
41	1.21E-03	0.04917997	41	3.11E+00
28	3.48E-03	0.277368824	28	3.86E-02
13	1.72E+00	-0.792976651	13	1.29E+03
12	3.33E+00	0.664802786	12	6.10E-03
14	1.02E+00	-0.130741677	14	4.97E+00
10	4.20E-01	-0.161188025	10	3.49E+00
6	6.16E+01	-0.050020978	6	1.09E+00
1	5.41E-01	-0.108030055	1	7.56E-01
17	1.38E-03	0.885088256	17	1.33E-04
12	8.74E-01	0.028969891	12	1.03E+00
12	6.49E+00	0.455045495	12	3.31E-02
3	6.94E+00	0.001270779	3	6.90E-01
8	5.87E+01	-2	8	3.04E+04
8	4.58E-01	-0.194039545	8	3.09E+00
8	1.09E-01	1	8	1.73E-03
17	3.23E+03	-0.809608586	17	1.14E+04
5	7.80E-01	0.255086952	5	2.68E-01
6	4.37E+01	-0.753115935	6	3.22E+01
19	4.78E+00	2	19	4.76E-11
2	1.99E-03	0.964141743	2	5.02E-02
15	3.08E-02	-0.174881141	15	8.78E+00
11	3.57E-01	-0.400906679	11	2.49E+01
20	1.88E+03	-0.172213496	20	1.94E+01
21	1.79E+02	-0.467815611	21	1.05E+03
2	5.64E-01	0.037901131	2	5.84E-01
7	1.26E+00	-0.392206111	7	7.51E+00
11	7.20E-01	-0.334808293	11	1.51E+01
11	2.71E+00	-0.344311305	11	1.62E+01
14	3.33E-03	-0.173645731	14	7.36E+00
15	1.46E+06	0.110439789	15	5.52E-01
9	1.66E+00	-0.177937145	9	3.32E+00
12	1.06E+01	-0.630692635	12	2.12E+02
7	4.43E-01	0.542979475	7	5.00E-02
35	4.00E+04	0.863777885	35	1.29E-07
81	9.89E+04	0.938134474	81	4.91E-17
10	1.07E-01	0.520731549	10	2.98E-02
3	1.18E-01	-1	3	4.09E+01
25	9.31E-01	-0.63446576	25	4.76E+04
16	8.83E+00	-0.500913666	16	2.92E+02
8	2.92E-01	-0.026260102	8	1.15E+00
8	7.49E-02	0.309927088	8	1.58E-01
11	2.74E-02	-0.629409934	11	1.39E+02
15	1.01E-02	-0.25595126	15	1.93E+01
20	3.30E+04	0.254414739	20	9.74E-02
3	5.86E-01	-0.164905292	3	1.17E+00
32	7.82E-01	0.970374151	32	5.69E-08

13	2.56E-02	-0.304957681	13	1.93E+01
7	1.70E+03	-1	7	1.98E+02
13	3.74E+01	-1	13	7.61E+04
13	3.34E-01	-0.583176072	13	2.12E+02
16	1.97E+03	0.856869219	16	2.67E-04
85	1.86E-11	0.372065518	85	4.40E-06
55	5.22E-14	1	55	1.36E-13
14	4.60E-04	-0.594822636	14	3.48E+02
8	2.49E+01	-0.148954622	8	2.37E+00
3	6.03E-01	0.133791487	3	4.52E-01
5	3.87E-01	-0.028667562	5	9.01E-01
4	2.50E-02	0.44203325	4	1.43E-01
11	1.70E-06	0.550778146	11	1.92E-02
2	2.76E-01	0.037417883	2	5.85E-01
8	2.25E-02	-0.017694692	8	1.09E+00
4	1.20E+00	-0.849733341	4	1.77E+01
6	8.78E-02	-0.526796778	6	1.08E+01
2	5.65E-01	-0.033704422	2	7.06E-01
1	6.92E-01	-0.05057378	1	6.70E-01
5	9.70E-01	-1	5	1.56E+02
11	8.84E-02	0.468263338	11	3.58E-02
11	2.14E+00	0.534037866	11	2.18E-02
8	4.34E-01	0.437722799	8	7.43E-02
7	4.15E-02	-0.005170736	7	9.43E-01
14	6.02E-05	0.774848842	14	1.25E-03
11	4.65E-01	-0.228334306	11	6.78E+00
31	3.65E+11	4	31	3.20E-28
4	1.40E+01	0.757317086	4	4.40E-02
6	2.07E-01	0.233551336	6	2.78E-01
19	7.30E-06	0.489510051	19	6.40E-03
14	6.93E-01	-0.231641851	14	1.25E+01
2	5.20E-01	-0.450598274	2	2.13E+00
8	7.14E+00	-0.245890055	8	4.20E+00
7	8.44E-01	-0.153906546	7	2.09E+00
8	8.41E-01	-0.048168856	8	1.31E+00
2	6.60E-01	-2	2	4.99E+01
11	2.92E+00	0.233983593	11	2.09E-01
10	4.22E-02	-0.408460732	10	1.97E+01
9	1.67E+00	-0.283829642	9	6.58E+00
6	3.31E-02	-0.418645438	6	6.43E+00
2	8.52E-02	-0.577321224	2	2.98E+00
3	8.10E-01	-0.529640524	3	3.76E+00
5	1.39E-01	-0.009325678	5	8.30E-01
30	7.76E+04	-1	30	6.57E+09
20	2.92E+01	-0.047050571	20	4.10E+00
11	3.89E+02	0.543433732	11	2.03E-02
3	8.77E-01	-0.198734783	3	1.31E+00

32	3.14E-04	0.123477109	32	5.15E-01
8	3.77E+00	-0.457941115	8	1.47E+01
9	2.64E+01	0.092875615	9	5.80E-01
8	2.13E-01	2	8	2.33E-06
2	4.65E-01	0.713523248	2	9.75E-02
5	4.93E-03	0.057186769	5	6.24E-01
18	7.97E-01	0.131313526	18	4.49E-01
20	1.54E-03	0.035253056	20	1.48E+00
5	2.42E-01	-0.134137021	5	1.41E+00
10	7.83E-01	-0.043998658	10	1.54E+00
27	1.98E+01	0.439147802	27	3.04E-03
27	3.15E-04	-0.026716174	27	5.77E+00
14	3.85E-01	-0.012845725	14	1.69E+00
36	1.50E-10	-0.043487481	36	1.76E+01
7	4.81E-01	0.321098968	7	1.64E-01
7	3.05E-01	0.28875354	7	1.95E-01
7	2.20E-02	-0.214828006	7	2.90E+00
8	1.84E+00	-0.185339956	8	2.94E+00
2	8.68E+00	-0.21250363	2	1.13E+00
11	8.64E-01	0.735640879	11	4.78E-03
10	4.72E-01	0.02254164	10	9.68E-01
3	2.44E+00	-0.788522057	3	8.58E+00
20	7.60E-02	-0.392781096	20	2.99E+02
5	3.42E-01	0.397917401	5	1.45E-01
11	2.30E-01	-0.158293429	11	4.00E+00
12	9.10E-02	-0.259109169	12	1.06E+01
3	6.36E-01	0.021609916	3	6.47E-01
3	1.55E+00	0.161590378	3	4.14E-01
17	1.39E+00	-0.10574961	17	5.79E+00
6	1.88E-01	-0.405389182	6	6.03E+00
13	1.32E+00	1	13	2.47E-05
16	9.69E-05	0.018075799	16	1.44E+00
20	7.06E-10	-0.219147472	20	3.47E+01
88	1.03E+07	-0.114339311	88	7.61E+04
7	3.07E+01	-0.941892317	7	1.43E+02
4	5.07E-01	0.067503861	4	5.78E-01
4	2.54E-02	3	4	6.13E-05
12	6.44E-03	0.321319825	12	9.75E-02
18	8.11E+01	0.817065638	18	1.91E-04
21	3.06E-12	2	21	1.37E-11
4	5.30E-02	0.911815066	4	2.47E-02
2	2.93E-02	0.020938064	2	6.11E-01
1	2.25E-01	-0.805095609	1	3.28E+00
6	2.00E+01	-0.4163814	6	6.36E+00
13	6.44E+00	-0.141995663	13	4.75E+00
29	1.06E-08	-0.017985081	29	5.88E+00
1	3.59E-02	0.335716455	1	2.97E-01

1	3.03E-01	-0.360161469	1	1.29E+00
2	2.75E-01	0.050664431	2	5.65E-01
8	8.38E-02	0.927186721	8	4.14E-03
41	1.02E+10	-0.756646102	41	6.59E+08
3	5.27E-01	0.242851848	3	3.19E-01
17	1.79E+00	-0.218962492	17	1.96E+01
3	6.84E-02	-0.136672445	3	1.07E+00
51	6.65E-01	-0.36124971	51	7.75E+05
7	3.54E-04	-0.839619607	7	8.26E+01
9	1.08E-02	-0.273416691	9	6.15E+00
18	8.80E+02	-0.331923102	18	8.53E+01
5	8.54E-04	0.493720754	5	9.66E-02
6	4.30E+00	0.150607406	6	4.14E-01
17	3.50E-01	0.09924324	17	6.36E-01
9	2.07E-02	0.091821662	9	5.84E-01
4	1.14E+00	0.5095699	4	1.11E-01
19	2.81E+02	0.202435456	19	1.93E-01
8	2.83E+00	-0.495322379	8	1.83E+01
1	2.98E-01	0.023697538	1	5.73E-01
30	2.46E-01	-0.181604651	30	1.18E+02
19	6.71E-07	0.286497559	19	7.12E-02
11	9.61E-03	0.319540151	11	1.10E-01
6	7.41E-01	-0.492858753	6	9.19E+00
12	8.25E+01	0.023744462	12	1.08E+00
16	4.23E-11	2	16	1.23E-07
10	1.14E-03	2	10	5.44E-06
9	1.06E+00	0.741444782	9	8.88E-03
34	1.07E-10	0.21996751	34	7.52E-02
13	1.34E-06	0.069943277	13	7.66E-01
9	2.44E-02	0.241935684	9	2.22E-01
4	6.19E-01	-0.120750667	4	1.17E+00
7	3.12E-03	-0.250115094	7	3.51E+00
6	8.10E-03	0.373212982	6	1.42E-01
11	6.10E-02	0.344708562	11	9.07E-02
2	5.05E-01	0.038889084	2	5.83E-01
15	1.28E+06	-1	15	2.67E+05
24	8.59E+00	-0.390527655	24	8.99E+02
3	4.79E-02	0	3	6.93E-01
4	5.95E-02	-0.388263691	4	3.17E+00
12	2.89E-01	0.307604745	12	1.09E-01
4	2.53E-01	0.09347509	4	5.24E-01
9	1.84E+00	0.182608953	9	3.26E-01
7	3.88E-01	0.763531741	7	1.53E-02
16	3.95E-03	0.940217767	16	1.14E-04
6	6.46E-01	-0.585094789	6	1.43E+01
6	1.12E-01	-0.784255676	6	3.74E+01
29	9.90E-06	-0.392169036	29	3.79E+03

16	9.98E-01	-0.050153712	16	2.89E+00
8	2.78E-03	-0.387492755	8	9.69E+00
11	2.93E+00	-0.426460124	11	3.01E+01
11	6.94E-02	0.002405496	11	1.19E+00
2	3.09E-01	0.029690579	2	5.97E-01
5	1.65E+00	-0.247154681	5	2.29E+00
3	1.60E+00	-0.91304594	3	1.28E+01
9	7.47E+00	-0.520736976	9	3.03E+01
4	2.17E-01	-0.006355812	4	7.61E-01
19	5.98E-01	-0.248010927	19	4.05E+01
11	7.26E-03	0.230077475	11	2.15E-01
13	1.41E-03	0.278411974	13	1.27E-01
3	8.18E-02	-0.443545397	3	2.85E+00
26	2.60E+00	-0.196053464	26	7.52E+01
17	3.10E-01	0.052422901	17	1.05E+00
26	1.19E+02	-0.37877384	26	1.31E+03
2	9.44E-01	-0.78936238	2	5.23E+00
9	3.97E+01	-2	9	5.19E+05
4	7.34E-01	-0.413486132	4	3.48E+00
6	8.57E-01	-0.001537502	6	8.62E-01
6	4.98E+01	-0.634960658	6	1.82E+01
12	2.61E+03	-1	12	1.10E+05
7	4.24E+01	-0.795661824	7	6.53E+01
4	3.23E-01	-0.25228436	4	1.91E+00
7	3.55E-01	-0.642654155	7	2.87E+01
12	5.44E-01	-0.188326512	12	5.96E+00
6	4.11E-01	0.051167102	6	6.68E-01
13	4.64E-03	0.045146822	13	9.48E-01
15	3.61E-01	0.230249693	15	1.73E-01
16	1.53E+04	0.651990041	16	2.18E-03
21	8.33E+04	-0.760371622	21	4.64E+04
18	4.29E-02	-0.058680373	18	3.86E+00
4	1.99E-01	-0.300310628	4	2.28E+00
3	6.68E-01	-0.337436668	3	2.03E+00
2	9.20E-01	-0.509161129	2	2.49E+00
3	3.29E-01	-0.497873378	3	3.39E+00
20	2.77E-02	2	20	5.88E-12
9	3.26E-01	0.375066746	9	9.42E-02
6	5.31E-02	0.147309701	6	4.21E-01
1	4.22E-01	0.013291484	1	5.85E-01
10	2.04E+00	-0.062419783	10	1.75E+00
5	9.02E-01	-0.24454946	5	2.27E+00
9	1.14E-01	-0.303848714	9	7.48E+00
6	9.51E-03	-0.238551097	6	2.70E+00
6	5.00E+00	-0.061915081	6	1.15E+00
2	5.11E+00	0.624850553	2	1.23E-01
20	3.04E-04	-0.297435976	20	9.17E+01

18	1.60E+00	-0.523303561	18	7.45E+02
13	1.86E+07	0.539187432	13	1.35E-02
13	6.94E+01	-0.130231672	13	4.29E+00
2	8.22E-01	-0.168764389	2	1.01E+00
1	6.83E-01	0	1	6.02E-01
2	1.15E+00	-0.789495842	2	5.23E+00
3	1.96E-01	-0.541676688	3	3.90E+00
3	2.55E-01	-0.009225652	3	7.13E-01
6	5.92E-02	-1	6	3.11E+02
2	5.82E-01	-0.29084698	2	1.40E+00
3	6.88E-01	0.606277779	3	1.00E-01
6	8.16E-01	-0.243554858	6	2.77E+00
9	6.41E-01	-0.574393652	9	4.28E+01
9	3.87E-01	0.30986282	9	1.43E-01
5	2.52E-02	0.547842425	5	7.66E-02
5	1.49E-02	0.728577605	5	3.54E-02
1	1.19E-01	0.384172552	1	2.68E-01
13	9.58E-04	0.06326511	13	8.11E-01
13	3.49E+01	-0.39724012	13	4.28E+01
4	1.03E+01	-0.996278573	4	3.07E+01
11	1.05E-01	-0.088179825	11	2.36E+00
4	8.28E-01	-0.792837089	4	1.43E+01
14	7.66E+02	-0.325073952	14	2.94E+01
19	7.98E-05	0.655742819	19	8.91E-04
18	2.97E-04	0.169504859	18	2.92E-01
7	1.22E+01	0.522888915	7	5.57E-02
8	5.99E-02	-0.979631535	8	3.19E+02
20	6.72E-05	0.154824553	20	3.35E-01
16	1.60E-03	-0.207372656	16	1.44E+01
18	2.95E-04	-0.675956868	18	4.19E+03
13	2.35E+00	-0.362798326	13	3.18E+01
20	1.65E+00	-0.295938194	20	9.00E+01
7	1.44E+01	-0.508539275	7	1.40E+01
8	5.69E+00	-0.214531117	8	3.49E+00
7	6.27E+02	-0.932587257	7	1.36E+02
6	3.99E-01	-0.757289017	6	3.29E+01
11	2.78E-01	1	11	3.92E-04
14	2.29E+03	0.374586105	14	4.86E-02
15	8.70E+01	0.405748965	15	3.15E-02
3	8.94E-01	-0.214204568	3	1.37E+00
4	5.75E-02	-0.376298682	4	3.03E+00
9	4.49E-02	1	9	7.60E-04
2	2.66E-01	0.853513825	2	6.73E-02
5	3.58E-01	0.395962715	5	1.47E-01
3	4.53E-01	-0.141820106	3	1.09E+00
1	3.62E-01	-0.28943181	1	1.11E+00
14	1.09E-10	0.719919485	14	2.06E-03

6	4.39E-01	-0.126141745	6	1.57E+00
6	1.28E-03	3	6	2.94E-06
18	1.00E-03	-0.326932207	18	8.06E+01
14	5.03E+00	-2	14	1.80E+08
4	1.35E-01	0	4	7.43E-01
18	6.78E-02	-0.558710313	18	1.11E+03
6	1.98E-03	1	6	5.68E-03
3	5.39E-02	-0.273701684	3	1.66E+00
4	3.30E-02	0.059478446	4	5.95E-01
1	5.47E-01	0.041241528	1	5.52E-01
47	7.69E+04	2	47	3.62E-28
8	2.06E-01	0.986609539	8	2.91E-03
2	4.82E-01	-0.014466	2	6.71E-01
1	5.37E-01	-0.028846715	1	6.40E-01
1	2.34E-01	0.447801651	1	2.34E-01
13	4.33E+00	0.680388539	13	3.99E-03
8	3.87E+00	0.109948586	8	5.14E-01
1	5.45E-01	-0.011009864	1	6.16E-01
2	5.73E-01	-0.08061535	2	7.99E-01
13	7.92E+00	-0.42886796	13	5.62E+01
26	1.98E+10	2	26	1.51E-14
4	1.97E+00	0.346465903	4	2.04E-01
7	2.36E+00	0.239731152	7	2.54E-01
1	3.77E-01	-1	1	5.35E+00
6	1.28E+00	-0.036102046	6	1.02E+00
15	1.63E+03	0.007774219	15	1.49E+00
13	5.02E+03	-0.299384206	13	1.84E+01
15	3.52E+00	1	15	2.61E-06
15	1.14E-02	-0.19629653	15	1.08E+01
9	3.44E-01	0.386705728	9	8.74E-02
18	2.37E-02	0.828223734	18	1.68E-04
9	1.70E-01	-0.253742809	9	5.42E+00
7	1.64E+00	-0.582119719	7	2.08E+01
6	7.20E+00	0.064343502	6	6.27E-01
6	5.67E+00	3	6	4.56E-06
22	4.17E+01	0.453191977	22	5.82E-03
11	1.56E+03	2	11	1.31E-08
5	2.49E+00	-0.911009345	5	3.92E+01
33	6.81E-05	0.452506891	33	8.56E-04
7	5.25E-02	0.118339378	7	4.87E-01
22	3.74E-02	-0.383734166	22	4.67E+02
27	7.81E-05	-0.010860142	27	4.46E+00
5	1.58E-02	-1	5	1.25E+02
3	1.74E-02	0.478986411	3	1.50E-01
6	1.71E-01	0.958757161	6	8.44E-03
13	1.83E+04	1	13	5.29E-06
9	7.60E-01	-0.088573639	9	1.87E+00

11	2.33E-01	-0.224904408	11	6.61E+00
14	1.03E+00	-0.140453085	14	5.43E+00
10	3.32E+00	-0.721879945	10	1.76E+02
7	1.56E+00	-0.12244281	7	1.77E+00
15	6.82E-02	0.344746112	15	5.69E-02
21	8.56E+00	-0.540270297	21	2.68E+03
13	5.03E-01	-0.1246017	13	4.09E+00
28	4.97E+01	0.272980716	28	4.15E-02
6	1.81E+01	0.573785666	6	5.39E-02
14	2.28E+01	0.320637685	14	7.97E-02
6	4.52E+00	-0.664350379	6	2.10E+01
20	1.65E+00	-0.384600167	20	2.70E+02
7	3.97E+00	-0.164628563	7	2.22E+00
9	8.63E+00	-0.561043404	9	3.93E+01
9	2.43E+00	-0.507607378	9	2.78E+01
13	2.56E-02	0.315326109	13	9.25E-02
9	1.18E-04	-0.242358448	9	5.03E+00
18	1.73E+10	-1	18	4.36E+06
9	7.18E+00	-0.289660082	9	6.83E+00
11	1.67E+00	0.059843807	11	7.75E-01
10	3.29E-02	0.618514157	10	1.51E-02
13	7.25E-02	0.279045105	13	1.26E-01
9	7.31E-01	-0.469089116	9	2.17E+01
8	6.09E+00	0.174139774	8	3.52E-01
53	3.82E+05	0.119193485	53	6.28E-01
15	1.20E+01	-0.307424492	15	3.17E+01
2	5.90E-01	0.17566406	2	4.05E-01
8	2.69E-01	0.158683315	8	3.86E-01
7	1.67E-02	-0.309033661	7	4.81E+00
12	6.37E-01	3	12	2.18E-11
4	5.97E-01	-0.003002375	4	7.52E-01
31	3.75E-03	0.775609259	31	3.21E-06
5	4.90E-02	2	5	1.19E-03
8	4.21E-01	-0.008248673	8	1.03E+00
5	4.11E+00	-0.614349063	5	1.10E+01
16	2.73E+01	-0.347686358	16	6.07E+01
4	4.02E-03	-0.947404091	4	2.55E+01
18	8.39E-02	-0.251893641	18	3.44E+01
2	3.00E-01	-0.332646606	2	1.56E+00
7	2.31E+03	-1	7	1.61E+03
4	1.24E+00	-0.028839708	4	8.28E-01
17	2.08E-02	-0.741233476	17	5.48E+03
5	6.40E-01	-0.134555987	5	1.42E+00
8	8.58E-02	0.213926087	8	2.79E-01
2	8.25E-04	-0.20657104	2	1.12E+00
7	5.62E-01	-0.053423783	7	1.22E+00
4	6.11E-01	0	4	7.43E-01

5	1.52E+00	0.01096165	5	7.61E-01
12	7.14E+01	-0.169347029	12	5.11E+00
6	1.66E+01	-0.53760413	6	1.14E+01
4	5.76E-01	0.011573553	4	7.12E-01
22	5.76E+00	-0.488162665	22	1.91E+03
2	4.91E-01	0.060162871	2	5.51E-01
5	5.94E-01	0.006820044	5	7.74E-01
1	5.33E-01	-0.007434474	1	6.11E-01
19	5.63E-03	-0.643679604	19	4.43E+03
9	4.39E-01	0.493214915	9	4.40E-02
7	6.75E-01	0.433167292	7	9.00E-02
14	5.27E-02	1	14	3.19E-05
9	3.60E-01	0.079562914	9	6.32E-01
12	1.37E+01	-0.154427829	12	4.53E+00
29	5.40E-08	-0.066439202	29	1.36E+01
9	3.47E-01	-0.064526828	9	1.60E+00
4	5.11E-01	-0.016901603	4	7.92E-01
5	4.67E+00	-0.038122098	5	9.38E-01
13	1.74E+09	-1	13	2.73E+04
4	7.29E-01	-0.015602401	4	7.88E-01
1	5.75E-01	-0.012763671	1	6.18E-01
15	2.02E-02	-0.137083999	15	6.08E+00
16	1.20E+00	0.204983486	16	2.12E-01
2	6.28E+00	-0.576940451	2	2.98E+00
15	2.02E-02	0.107405431	15	5.68E-01
17	1.63E+00	-0.214448086	17	1.87E+01
9	1.38E+01	-0.467467805	9	2.15E+01
7	5.38E-01	-0.05467977	7	1.23E+00
13	2.99E+00	2	13	1.34E-07
10	1.45E-02	-0.397462018	10	1.82E+01
5	1.05E+00	-0.193541048	5	1.82E+00
2	6.91E-01	-0.09718814	2	8.35E-01
11	2.26E+00	-0.072147743	11	2.09E+00
14	1.23E+00	0.587873901	14	6.90E-03
2	5.14E-01	1.50E-05	2	6.46E-01
14	7.44E+02	-0.595485413	14	3.50E+02
9	2.20E+02	-0.119818359	9	2.29E+00
1	5.24E-01	0	1	6.02E-01
38	9.94E+00	-0.278620984	38	3.90E+03
4	3.84E-01	-0.937589539	4	2.46E+01
8	4.97E-01	-0.622018249	8	3.87E+01
30	4.56E+01	-0.181590128	30	1.18E+02
7	2.16E+00	-0.80306682	7	6.79E+01
26	1.21E+01	-0.32361942	26	5.54E+02
14	2.48E-01	-0.33800734	14	3.31E+01
3	5.36E-03	0.995812449	3	2.89E-02
5	1.94E+00	-0.673364378	5	1.42E+01

3	4.04E+00	-0.930884512	3	1.35E+01
8	1.43E-02	0.524343673	8	4.46E-02
21	1.08E+01	1	21	9.60E-08
3	6.25E-01	0	3	6.93E-01
8	5.25E-01	-0.326239214	8	6.75E+00
6	1.63E+00	-0.088997497	6	1.31E+00
27	1.10E+00	-0.515127464	27	1.58E+04
18	8.34E-03	-0.008071486	18	2.18E+00
18	6.06E-02	0.586269196	18	2.60E-03
42	9.46E-01	0.291867727	42	8.83E-03
5	1.37E+00	-0.450351208	5	5.47E+00
4	5.62E-02	0.206301975	4	3.44E-01
13	5.51E+00	0.438705687	13	3.20E-02
3	1.13E-01	0.248980394	3	3.13E-01
8	4.80E+00	-0.185738152	8	2.95E+00
22	2.78E-07	0.145428018	22	3.70E-01
6	1.09E+00	0.674166675	6	3.32E-02
5	3.57E-01	-0.116166479	5	1.31E+00
14	1.23E-05	1	14	6.62E-06
1	2.97E-01	-0.111989703	1	7.62E-01
5	3.34E-01	0.391335354	5	1.50E-01
1	5.31E-01	2	1	2.30E-02
2	1.74E+00	1	2	2.37E-02
2	3.31E-01	1	2	3.77E-02
1	5.04E-01	0.550889119	1	1.89E-01
4	9.49E-01	2	4	6.93E-04
1	4.90E-02	-0.258006028	1	1.04E+00
6	3.40E-02	0.887816673	6	1.19E-02
3	1.93E-01	-0.029595445	3	7.61E-01
5	2.38E-01	-0.492002954	5	6.53E+00
22	2.80E-06	-0.062736612	22	6.14E+00
6	5.92E-02	1	6	6.88E-03
4	5.03E-01	-0.046599688	4	8.84E-01
3	1.05E+00	-0.015443618	3	7.28E-01
25	1.51E-03	0.249186009	25	7.51E-02
6	5.88E-01	-0.753003309	6	3.22E+01
9	3.45E+00	-0.401599168	9	1.40E+01
2	6.06E-01	-0.066619725	2	7.70E-01
2	7.81E-01	0.005366217	2	6.37E-01
2	5.91E-01	0.036478315	2	5.86E-01
4	2.61E+00	-0.275430846	4	2.08E+00
5	8.08E-01	-0.137800667	5	1.44E+00
4	8.94E-01	0	4	7.43E-01
10	5.12E-01	-0.369655037	10	1.50E+01
3	2.07E+00	-0.134993041	3	1.07E+00
3	5.58E-01	0.00418737	3	6.84E-01
4	4.52E-01	-0.146832054	4	1.29E+00

5	1.52E+00	-0.307697664	5	2.97E+00
6	4.17E-01	-0.293363887	6	3.52E+00
9	2.84E-03	-0.48529757	9	2.41E+01
13	9.92E-01	-0.109151718	13	3.58E+00
23	2.11E-04	-0.090179917	23	1.00E+01
7	4.37E-02	0.3428499	7	1.46E-01
11	4.41E-03	-0.615888044	11	1.25E+02
8	1.52E+00	-0.338866253	8	7.27E+00
2	1.99E-01	-0.080382865	2	7.99E-01
5	4.35E-01	0.894458931	5	1.74E-02
32	3.95E-01	0.248411531	32	4.84E-02
1	5.65E-01	-0.042113636	1	6.58E-01
6	2.96E-03	-0.19731712	6	2.21E+00
42	2.11E-07	-0.610420782	42	3.04E+07
8	1.41E-01	-0.5861069	8	3.13E+01
8	9.15E-01	-0.187655026	8	2.98E+00
3	1.09E+00	-0.073321057	3	8.75E-01
8	7.85E+01	0.008090522	8	9.39E-01
7	2.88E+01	-0.476925467	7	1.18E+01
12	1.55E+02	-0.172623221	12	5.25E+00
12	4.67E+01	-0.172682265	12	5.25E+00
7	5.85E+00	2	7	2.21E-04
7	5.38E-02	0.572614587	7	4.26E-02
3	4.63E-01	0.086989922	3	5.25E-01
6	1.21E-01	-0.613628491	6	1.64E+01
7	9.18E+00	0.568910471	7	4.35E-02
10	8.86E-02	-0.689144979	10	1.40E+02
23	2.08E+00	-0.092276029	23	1.03E+01
1	3.82E+01	-1	1	8.23E+00
33	1.55E+06	0.012723912	33	4.45E+00
7	4.80E-02	-0.315333789	7	4.97E+00
23	7.26E-04	-0.052449126	23	5.90E+00
3	2.10E+00	-0.195746706	3	1.29E+00
25	1.34E-03	0.246677335	25	7.80E-02
1	6.82E-01	-0.074361521	1	7.04E-01
3	4.44E-02	-0.528336401	3	3.74E+00
3	9.00E-02	-0.680532073	3	6.08E+00
73	4.10E-11	-0.204233551	73	4.23E+05
7	1.25E-01	-0.384786842	7	7.22E+00
5	2.35E+00	-0.743199577	5	1.91E+01
8	1.84E-02	-0.228035734	8	3.78E+00
9	4.86E-03	-0.178413349	9	3.33E+00
12	8.57E-06	0.155940414	12	3.70E-01
9	2.98E-01	0.158317912	9	3.81E-01
14	2.93E+00	-0.849056303	14	3.57E+03
38	1.50E-05	-0.485176556	38	3.80E+05
2	4.57E-01	0	2	6.46E-01

14	7.66E-04	0.176041593	14	2.99E-01
1	3.80E-01	0.064744712	1	5.25E-01
29	2.29E+05	2	29	1.50E-16
7	4.30E+00	-0.26063317	7	3.71E+00
6	3.08E-01	-0.095604386	6	1.36E+00
13	4.02E+00	-0.324016543	13	2.28E+01
2	6.73E-01	-0.026170107	2	6.92E-01
22	1.41E-04	0.622361661	22	5.94E-04
10	5.60E-03	1	10	4.33E-05
6	1.78E-01	0.015798634	6	7.93E-01
3	3.36E-01	0.246030072	3	3.16E-01
20	8.00E-10	0.044797178	20	1.31E+00
11	1.36E-02	0.66472985	11	8.15E-03
15	6.35E-08	0.599419613	15	4.81E-03
2	3.81E-01	-0.047741301	2	7.33E-01
7	1.00E+00	-0.101937179	7	1.58E+00
8	4.69E-03	0.506894599	8	4.94E-02
8	2.38E-01	-0.252143598	8	4.36E+00
11	3.61E-04	3	11	2.47E-09
14	9.14E-01	-0.218489527	14	1.11E+01
3	2.21E+00	-2	3	3.63E+02
9	3.29E+01	-0.387569723	9	1.28E+01
4	1.30E-01	-0.289588762	4	2.19E+00
64	1.55E-03	-0.238414926	64	2.86E+05
2	7.66E-01	-0.253715733	2	1.26E+00
6	5.13E+00	-1	6	4.42E+02
3	5.66E-01	-0.010089584	3	7.15E-01
5	3.99E-01	-0.345393238	5	3.49E+00
9	5.62E-10	2	9	5.45E-05
6	3.38E-03	0.856135101	6	1.38E-02
4	5.22E-03	0.746332787	4	4.58E-02
15	6.04E-03	0.231132966	15	1.71E-01
5	3.49E+00	-0.199904337	5	1.87E+00
5	7.94E+00	-0.404535246	5	4.50E+00
30	1.04E-01	-1	30	1.25E+12
3	5.96E-01	-0.087474583	3	9.16E-01
6	2.00E-02	0.195207416	6	3.34E-01
11	9.85E-01	0.277366289	11	1.51E-01
8	7.18E-01	0.083803993	8	6.00E-01
2	5.64E-01	0	2	6.46E-01
14	3.81E+01	-0.208438774	14	1.01E+01
16	4.86E+00	-0.02224823	16	2.17E+00
1	2.51E-02	-0.746887676	1	2.90E+00
9	2.37E-02	-0.580382584	9	4.45E+01
29	7.32E-02	-0.160910414	29	6.95E+01
1	4.12E-01	-0.117028675	1	7.70E-01
5	8.94E-01	0.091533761	5	5.39E-01

15	1.77E+00	-0.354706709	15	5.02E+01
4	8.56E-02	-0.053071452	4	9.06E-01
23	1.20E-03	-1	23	7.23E+06
10	2.95E-01	0.268998507	10	1.73E-01
2	5.28E-01	-0.139036766	2	9.33E-01
4	5.51E-01	-0.383046667	4	3.11E+00
5	2.76E+00	0.321858405	5	2.01E-01
9	4.96E-01	0.787851167	9	6.59E-03
6	9.21E-02	0.562718534	6	5.69E-02
8	2.15E-02	-0.085605261	8	1.63E+00
20	5.52E-02	0.261122551	20	8.96E-02
10	3.90E-04	-0.769778968	10	2.45E+02
3	2.90E-01	0.044821406	3	6.00E-01
22	6.56E-09	0.472741788	22	4.47E-03
10	2.17E-01	-0.11007917	10	2.44E+00
9	1.55E+01	-0.751917232	9	1.34E+02
12	4.88E+00	-0.462441732	12	5.45E+01
5	4.35E-01	-0.409790815	5	4.60E+00
2	2.03E-01	0	2	6.46E-01
2	5.65E-01	-0.044272293	2	7.26E-01
5	1.76E+00	-1	5	7.03E+01
6	2.92E-05	1	6	3.97E-03
9	2.91E-08	0.351544372	9	1.10E-01
6	9.28E-04	0.733952779	6	2.49E-02
8	1.73E-05	0.378521657	8	1.05E-01
11	6.69E-05	1	11	2.56E-04
20	7.43E-03	-0.31179727	20	1.10E+02
5	2.69E-02	0.375828704	5	1.60E-01
6	4.86E-02	-0.117595775	6	1.51E+00
42	2.64E-06	-0.038243682	42	2.72E+01
7	4.95E-02	-0.09230233	7	1.50E+00
4	7.37E-01	-0.009332064	4	7.70E-01
2	5.69E-01	-0.61803135	2	3.32E+00
1	1.66E-01	-0.854275265	1	3.64E+00
3	1.06E-01	-0.310552418	3	1.87E+00
10	4.37E+00	-0.812189818	10	3.30E+02
11	1.90E-01	-0.389025485	11	2.27E+01
14	4.80E+01	1	14	1.65E-06
6	1.04E+00	1	6	6.59E-03
10	4.64E-02	0.020684457	10	9.81E-01
11	3.37E-02	-1	11	4.80E+03
24	3.91E+01	-0.448430541	24	2.09E+03
19	1.48E-01	-0.490192733	19	7.16E+02
6	5.46E-01	0.518178354	6	7.05E-02
3	7.19E-01	0.246834595	3	3.15E-01
22	1.89E-03	0.593132156	22	8.81E-04
8	2.23E+00	0.464048382	8	6.36E-02

3	2.96E-01	0.313869536	3	2.54E-01
11	8.49E+01	-1	11	6.20E+03
3	5.16E-01	-0.058987858	3	8.36E-01
2	1.01E+00	0.043021439	2	5.76E-01
7	6.98E-01	-0.435194909	7	9.46E+00
4	6.54E+00	0.732338549	4	4.83E-02
3	1.54E+00	0.980262464	3	3.03E-02
10	1.07E+00	1	10	2.38E-04
2	5.71E-01	0	2	6.46E-01
19	2.45E+05	-0.606463563	19	2.85E+03
1	6.34E-01	-0.055448245	1	6.77E-01
2	1.72E-01	0.105928358	2	4.88E-01
6	5.45E+00	0.499824106	6	7.70E-02
9	6.13E-04	1	9	3.88E-04
5	5.53E-02	0.317680723	5	2.05E-01
9	2.12E-01	-0.209645542	9	4.08E+00
16	7.29E-20	2	16	1.03E-07
10	4.50E-10	2	10	2.74E-05
15	1.31E-05	0.739275597	15	1.24E-03
13	2.84E-09	0.89350023	13	6.36E-04
5	1.39E+00	-0.243550028	5	2.26E+00
5	1.99E-02	0.358482088	5	1.72E-01
7	5.45E-02	0.809703739	7	1.20E-02
2	4.72E-03	3	2	9.82E-05
16	3.90E-07	3	16	8.27E-12
4	3.20E-01	0.046745433	4	6.24E-01
4	6.54E-01	-0.071193319	4	9.69E-01
17	1.82E+02	-0.305345862	17	4.98E+01
21	3.34E-01	-0.369058943	21	2.92E+02
11	1.23E+01	-0.485861963	11	4.71E+01
5	1.22E+00	-0.238325091	5	2.21E+00
5	9.01E-01	-0.126653761	5	1.37E+00
13	7.13E+00	-0.381652243	13	3.74E+01
12	8.99E+02	1	12	2.64E-04
8	5.89E-01	-0.057144991	8	1.38E+00
7	1.76E-02	-0.865684801	7	9.50E+01
3	3.35E-01	-0.321859596	3	1.93E+00
26	2.48E+02	-0.548956796	26	1.89E+04
6	8.04E-01	-0.000578196	6	8.58E-01
3	2.56E+00	-0.07511373	3	8.80E-01
7	7.87E-03	-0.093243283	7	1.51E+00
2	6.01E-01	0.170007619	2	4.12E-01
2	2.02E+00	0.780795787	2	8.16E-02
2	2.44E+00	0.392173817	2	2.29E-01
3	2.06E+00	-0.988768656	3	1.63E+01
2	1.99E-01	-0.902871558	2	7.06E+00
2	2.57E-01	-0.873128972	2	6.52E+00

2	3.50E-01	0.021713516	2	6.10E-01
19	4.68E-04	0.604206152	19	1.64E-03
5	8.16E-01	-0.00140557	5	8.02E-01
18	1.55E-01	0.581033719	18	2.76E-03
21	3.95E-06	0.588107888	21	1.21E-03
22	5.02E-03	-0.275554259	22	1.08E+02
3	4.39E-01	-0.224083755	3	1.42E+00
6	3.34E-01	0.067977467	6	6.16E-01
10	4.26E+00	0.012474086	10	1.04E+00
5	3.72E-03	-0.750572854	5	1.97E+01
8	9.58E-01	-0.649033436	8	4.54E+01
7	1.33E+00	-1	7	3.79E+02
5	3.75E-05	2	5	2.68E-04
4	8.58E-07	1	4	5.51E-03
4	3.27E-02	-0.010422292	4	7.73E-01
4	1.13E-02	0.226765748	4	3.19E-01
16	2.87E-12	2	16	4.04E-09
5	3.11E-01	0.395167623	5	1.47E-01
4	7.24E-09	3	4	2.12E-05
28	2.32E-02	-0.329413768	28	9.98E+02
20	3.53E-03	0.362029926	20	2.56E-02
5	5.45E-02	1	5	3.00E-03
7	4.72E-01	-0.462698615	7	1.10E+01
12	1.77E-03	-0.281172241	12	1.26E+01
10	3.39E+00	-0.263775155	10	7.15E+00
4	7.12E-01	-0.559291125	4	6.00E+00
1	1.82E+00	-0.082698935	1	7.17E-01
1	5.04E-01	0.049775738	1	5.42E-01
2	1.96E-01	1	2	2.80E-02
2	2.10E+00	0.550065862	2	1.50E-01
3	4.70E-01	-0.20056505	3	1.31E+00
4	8.80E-02	-0.91368245	4	2.25E+01
11	1.21E-01	-1	11	2.27E+04
2	5.51E-02	-2	2	1.13E+02
4	3.43E+00	0.115954842	4	4.82E-01
15	5.38E-03	0.035763825	15	1.14E+00
5	1.03E+00	-0.118563227	5	1.32E+00
6	2.22E+00	-0.040833578	6	1.04E+00
8	1.45E-01	0.248295436	8	2.27E-01
23	2.46E-02	0.058050526	23	1.25E+00
5	2.26E-03	-1	5	6.96E+01
9	2.83E-02	-0.092624292	9	1.92E+00
8	3.56E-02	-0.087402409	8	1.65E+00
5	4.99E-03	-0.276840747	5	2.60E+00
8	7.94E-03	0.319142541	8	1.50E-01
2	1.07E-01	0.606049807	2	1.30E-01
22	2.14E-08	0.880866036	22	1.82E-05

33	3.47E-10	0.711915206	33	5.50E-06
8	2.40E-02	0.807931807	8	8.36E-03
13	1.95E-05	2	13	4.53E-07
1	4.17E-01	0.105547483	1	4.82E-01
4	1.03E-02	0.863047449	4	2.96E-02
16	1.48E-10	0.051133559	16	1.02E+00
3	2.95E-04	3	3	6.45E-05
10	1.12E-04	2	10	1.01E-05
2	2.29E-01	0.347010111	2	2.58E-01
15	1.73E-01	-0.15891406	15	7.52E+00
3	3.02E-01	0.556145992	3	1.17E-01
2	5.64E-01	-0.520239662	2	2.56E+00
3	1.78E+00	-0.215727412	3	1.38E+00
3	6.32E-01	0.009910798	3	6.71E-01
2	5.64E-01	0	2	6.46E-01
4	4.34E-01	0.135395849	4	4.48E-01
1	5.19E-01	0.032804985	1	5.62E-01
20	5.15E-09	0.184310637	20	2.32E-01
7	2.06E-01	-0.384492581	7	7.21E+00
10	2.65E-03	0.206136717	10	2.68E-01
4	2.19E-01	-0.162139753	4	1.36E+00
24	8.61E-03	1	24	1.47E-08
2	1.07E-02	3	2	7.87E-04
23	7.21E-16	1	23	1.85E-07
9	1.53E-01	0.198607467	9	2.94E-01
7	3.05E-01	0.081127477	7	5.94E-01
9	1.10E-02	-0.316518675	9	8.12E+00
10	1.33E-04	-0.578987107	10	6.47E+01
9	3.03E-02	-0.469882707	9	2.18E+01
14	5.38E-03	-0.205605771	14	9.86E+00
4	8.86E-03	-0.944891707	4	2.53E+01
3	1.04E-01	0.000111034	3	6.93E-01
2	5.11E-01	0.000565827	2	6.45E-01
2	6.20E-03	0.649972496	2	1.15E-01
2	1.88E-03	-0.596101112	2	3.13E+00
16	7.80E-05	-0.539828665	16	4.34E+02
17	1.37E+01	1	17	1.16E-06
2	1.84E-01	-0.325451723	2	1.53E+00
20	3.55E+00	-0.164672341	20	1.77E+01
14	3.31E-01	-0.771794131	14	1.76E+03
11	9.80E-03	0.147020148	11	4.02E-01
9	1.35E-04	0.856120493	9	4.24E-03
79	3.59E-12	0.565260397	79	1.83E-09
7	1.19E-02	0.458753171	7	7.85E-02
16	5.00E-01	0.113041575	16	5.43E-01
5	1.29E+00	-0.101309417	5	1.23E+00
25	2.65E-06	0.058387952	25	1.34E+00

8	2.93E-05	-0.290931661	8	5.48E+00
6	1.30E-03	-0.101600043	6	1.40E+00
2	8.40E-03	-0.435031021	2	2.04E+00
1	5.49E-01	0.045108496	1	5.47E-01
3	8.31E-01	-0.076614588	3	8.85E-01
3	6.37E-02	-0.155556643	3	1.14E+00
2	5.90E-01	-0.011272449	2	6.65E-01
5	1.58E+00	-0.465314964	5	5.83E+00
5	6.57E-01	-0.006400796	5	8.19E-01
3	5.82E-01	-0.006394071	3	7.07E-01
13	1.21E+03	-0.165853177	13	5.84E+00
2	5.63E-01	0.001733957	2	6.43E-01
8	5.06E-03	0.422264515	8	8.14E-02
40	1.55E+00	0.115159958	40	6.41E-01
3	1.92E+00	-0.223295047	3	1.41E+00
16	1.20E-03	0.062594344	16	9.10E-01
10	3.90E+02	-0.825029903	10	3.61E+02
12	2.52E+00	-0.163270054	12	4.87E+00
2	1.16E+00	-0.572138779	2	2.94E+00
2	8.23E-01	0.625272809	2	1.23E-01
8	3.21E+00	-0.105515797	8	1.84E+00
10	1.14E-02	0.487680805	10	3.75E-02
6	3.09E+00	-0.440903712	6	7.16E+00
4	1.37E+00	0.437161584	4	1.45E-01
1	4.86E-01	-0.013868237	1	6.20E-01
6	3.62E-01	-0.0326151	6	1.00E+00
6	2.69E-02	0.460698502	6	9.29E-02
2	4.95E-01	0.102254169	2	4.93E-01
5	3.57E-02	0.311058794	5	2.11E-01
19	9.38E-03	-0.410456266	19	2.78E+02
2	4.86E-03	-0.506517911	2	2.47E+00
6	2.90E-01	0.19072322	6	3.41E-01
14	2.74E-04	-0.261190612	14	1.64E+01
13	1.90E+00	-0.369476227	13	3.37E+01
15	1.51E-04	0.013004406	15	1.42E+00
16	2.65E-04	-0.195412728	16	1.28E+01
2	2.06E-01	0.031454166	2	5.94E-01
55	2.62E-14	0.60824721	55	1.37E-07
6	3.06E-03	-0.163058631	6	1.88E+00
7	1.08E+00	-0.075223216	7	1.37E+00
96	4.00E+13	-0.397292707	96	8.50E+11
1	5.34E-01	0.018169298	1	5.79E-01
2	5.61E-01	-0.242344272	2	1.23E+00
7	1.69E+00	-0.394498801	7	7.60E+00
9	4.29E+00	-0.009392003	9	1.12E+00
7	7.64E-01	0.882102416	7	8.12E-03
5	1.95E-02	-0.028595853	5	9.01E-01

6	3.17E-01	0.690631167	6	3.07E-02
1	5.16E-01	-0.012763671	1	6.18E-01
7	1.61E+00	-0.190403211	7	2.55E+00
6	7.14E-02	-2	6	1.53E+03
8	8.78E-02	-0.502074088	8	1.91E+01
95	5.94E-01	-0.224422776	95	6.62E+07
1	4.75E-01	0.013637097	1	5.85E-01
12	2.62E+02	-0.113999689	12	3.27E+00
2	6.02E-01	0	2	6.46E-01
24	4.95E+01	-0.631106269	24	3.00E+04
3	5.40E-02	-0.463204613	3	3.04E+00
7	5.67E-02	0.245707619	7	2.46E-01
35	1.97E-03	0.238888589	35	4.86E-02
7	1.40E-01	0.173859965	7	3.61E-01
8	1.16E+00	-0.223466016	8	3.68E+00
5	2.97E-01	0.715473351	5	3.74E-02
2	8.38E-01	-0.100983853	2	8.44E-01
3	6.00E-01	-0.003613242	3	7.01E-01
9	8.09E-01	-0.008055537	9	1.11E+00
22	4.02E-10	0.715902468	22	1.68E-04
6	1.41E-02	0.323724747	6	1.80E-01
3	4.16E-02	0.472921369	3	1.53E-01
3	4.64E-01	-0.01321389	3	7.23E-01
1	5.65E-01	-0.026464731	1	6.36E-01
5	5.15E-03	0.05625645	5	6.27E-01
3	1.18E-02	-0.50679106	3	3.49E+00
8	6.57E-04	-0.318410978	8	6.45E+00
12	5.47E-05	-0.134642487	12	3.87E+00
13	3.38E-03	-0.074200016	13	2.65E+00
2	4.64E-02	0.473559193	2	1.84E-01
18	1.99E+01	1	18	8.33E-07
22	1.57E+00	-0.476069197	22	1.62E+03
7	7.32E-01	-0.814279548	7	7.21E+01
5	9.11E-02	0.252362489	5	2.71E-01
13	2.92E+00	-0.430936154	13	5.72E+01
11	2.20E+00	-0.555008847	11	7.93E+01
95	3.45E-28	0.013818241	95	2.14E+02
10	1.37E-01	-0.118819632	10	2.60E+00
5	1.21E+00	-0.14988146	5	1.51E+00
10	1.14E+02	-0.744708609	10	2.06E+02
12	2.03E+01	-0.523031214	12	8.88E+01
12	1.63E-02	0.061212542	12	7.96E-01
5	1.95E-01	-0.953265264	5	4.70E+01
27	1.37E+02	-0.110885064	27	2.26E+01
4	2.20E-02	0.191498206	4	3.64E-01
6	1.05E+01	-0.033915773	6	1.01E+00
13	6.14E-04	-0.179251962	13	6.55E+00

51	1.73E-08	0.568153783	51	1.25E-06
19	1.44E-04	-0.1638297	19	1.49E+01
22	5.89E-01	0.144890966	22	3.73E-01
10	6.47E-01	-0.207007938	10	4.81E+00
6	1.96E+00	0.185998746	6	3.49E-01
5	1.06E-01	-0.071218884	5	1.08E+00
4	2.96E-03	1	4	1.00E-02
10	9.60E-01	0.94436463	10	1.54E-03
5	2.66E-01	0.964516289	5	1.29E-02
8	4.13E-01	0.450529898	8	6.89E-02
1	5.38E-01	0.018387007	1	5.79E-01
2	5.66E-01	0.010287004	2	6.28E-01
2	5.83E-01	-0.02851481	2	6.96E-01
8	9.66E+00	-0.464396805	8	1.53E+01
28	3.08E+08	0.31594749	28	2.02E-02
10	1.11E+04	0.722795384	10	7.26E-03
27	5.83E+06	1	27	1.06E-09
9	6.10E+00	0.658851656	9	1.51E-02
6	3.88E-01	-0.896484439	6	6.42E+01
8	3.28E-02	-0.150723493	8	2.40E+00
7	1.57E+00	-0.347279542	7	5.90E+00
25	2.03E+02	0.03016536	25	2.06E+00
6	5.39E+00	-0.312872506	6	3.86E+00
9	1.63E+04	0.570627963	9	2.67E-02
10	1.24E+05	0.420183677	10	6.02E-02
20	1.01E+01	0.902406156	20	3.14E-05
18	2.00E+01	0.450709772	18	1.21E-02
4	7.84E-01	-0.085424425	4	1.02E+00
10	2.92E-01	-0.32742757	10	1.12E+01
23	6.52E+03	-0.912990629	23	1.04E+06
9	9.75E-02	0.358312482	9	1.05E-01
23	2.38E+01	0.422876473	23	7.47E-03
16	6.54E-01	2	16	3.06E-07
21	5.94E-01	0.018128601	21	1.94E+00
8	2.26E+00	0.153863979	8	3.97E-01
20	2.17E-06	0.455030559	20	8.08E-03
8	1.26E+00	-0.121070711	8	2.01E+00
12	8.07E-01	0.104489734	12	5.61E-01
12	6.43E-01	0.111573255	12	5.30E-01
18	3.60E-01	0.906074794	18	6.96E-05
8	4.78E-02	-0.303970443	8	5.92E+00
9	7.09E-03	0.797537048	9	6.19E-03
28	6.41E-03	0.122423552	28	5.17E-01
12	1.95E+01	-0.005314012	12	1.36E+00
20	1.39E+02	0.616247147	20	1.09E-03
1	5.10E-01	0.291577151	1	3.26E-01
9	4.10E+00	-0.633995048	9	6.28E+01

19	7.49E-02	-0.655394057	19	5.09E+03
5	2.05E-01	-0.970911732	5	5.06E+01
7	1.40E+00	0.044775651	7	7.22E-01
8	1.06E-01	-0.54062336	8	2.39E+01
70	3.87E-08	0.088055783	70	2.37E+00
4	1.38E-01	0.554101385	4	9.39E-02
3	1.40E-01	-0.012974191	3	7.22E-01
4	1.57E-02	-0.351275529	4	2.76E+00
46	6.44E-12	0.203264732	46	6.50E-02
5	9.02E-02	-0.394322355	5	4.30E+00
2	2.58E-01	0.020483442	2	6.12E-01
6	2.57E-03	-0.040956238	6	1.04E+00
5	1.78E-02	-0.340604222	5	3.42E+00
15	3.06E-07	1	15	9.15E-05
4	6.00E-02	0.486229411	4	1.21E-01
9	2.76E-01	-0.456872237	9	2.01E+01
6	6.17E+00	-0.506032108	6	9.79E+00
9	1.03E+00	-0.12193058	9	2.32E+00
7	2.50E-01	-0.339256986	7	5.65E+00
5	5.03E+00	-1	5	8.77E+01
9	2.12E-01	-0.564711253	9	4.02E+01
36	5.15E-06	0.401850873	36	1.47E-03
7	1.21E-02	0.092200543	7	5.60E-01
14	1.54E-01	-0.057064933	14	2.53E+00
10	2.40E+00	-1	10	1.62E+04
1	5.36E-01	0	1	6.02E-01
2	5.65E-01	0.004954637	2	6.37E-01
7	3.44E+00	0.994504639	7	4.44E-03
18	8.40E-02	0.046731025	18	1.17E+00
9	5.16E-01	-0.163768748	9	3.03E+00
1	5.36E-01	0	1	6.02E-01
31	6.10E-03	-0.42098423	31	1.13E+04
4	5.17E+00	-0.08305125	4	1.01E+00
19	1.82E+01	-0.45023182	19	4.46E+02
9	6.41E-01	-0.423991335	9	1.62E+01
13	1.33E+01	-0.69402962	13	5.52E+02
2	2.34E-01	-0.396574253	2	1.85E+00
2	1.93E-01	-0.734675564	2	4.52E+00
1	3.91E+00	-0.541060185	1	1.88E+00
9	9.73E-02	-0.562821026	9	3.97E+01
8	8.34E-02	-0.233668511	8	3.91E+00
10	2.62E+00	-0.340875547	10	1.23E+01
10	4.64E+00	-0.386517063	10	1.69E+01
13	2.91E-02	-0.051230394	13	2.17E+00
6	2.27E+00	0.956279753	6	8.54E-03
16	3.51E+01	-0.998350962	16	4.75E+04
2	8.08E-01	-2	2	5.51E+01

5	2.68E+00	1	5	2.49E-03
3	6.49E-01	-0.118479458	3	1.01E+00
8	1.04E+03	-1	8	1.91E+03
5	7.59E-02	-1	5	6.11E+01
11	5.13E-02	-0.079243971	11	2.21E+00
16	5.08E-01	-0.447710636	16	1.69E+02
22	1.10E-04	1	22	1.80E-07
13	3.00E-01	-0.640537034	13	3.48E+02
8	3.19E-01	-0.357762068	8	8.13E+00
18	2.48E+02	-0.981828173	18	1.34E+05
16	1.37E-02	-0.516891644	16	3.43E+02
19	5.77E-05	0.622342416	19	1.32E-03
2	4.47E-01	-0.002338831	2	6.50E-01
4	1.04E+00	-0.48738147	4	4.58E+00
2	3.24E-02	-0.177774141	2	1.03E+00
16	1.95E-02	0.119401813	16	5.09E-01
13	9.20E-02	0.055473974	13	8.68E-01
2	2.42E-01	0.570880295	2	1.42E-01
4	2.36E+00	1	4	1.17E-02
7	5.18E+00	0.95555407	7	5.47E-03
4	2.25E-01	-0.276012973	4	2.08E+00
4	2.04E+00	-0.543178072	4	5.65E+00
21	2.75E+01	-0.566832921	21	3.78E+03
23	3.44E+00	-0.251078625	23	9.58E+01
2	1.47E+00	-0.675207955	2	3.86E+00
6	1.77E-01	-0.985160428	6	9.85E+01
10	3.04E-02	-0.003035925	10	1.16E+00
3	4.73E-01	0.10104794	3	5.02E-01
9	6.73E-01	0.51816847	9	3.75E-02
13	1.93E-01	1	13	6.77E-05
15	4.52E-04	0.218964068	15	1.93E-01
2	5.34E-01	-0.006615465	2	6.57E-01
6	3.24E-01	-0.081423951	6	1.27E+00
23	1.47E-04	0.132090942	23	4.42E-01
17	1.25E+01	-0.407324277	17	1.50E+02
21	2.87E-05	0.510282671	21	3.31E-03
9	7.51E-01	0.026298027	9	8.91E-01
26	2.80E+01	-0.411296183	26	2.19E+03
7	5.09E-03	-0.184929645	7	2.47E+00
2	5.38E-01	-0.493388471	2	2.39E+00
37	1.01E+02	-0.13885128	37	1.52E+02
5	2.67E-01	-0.106444372	5	1.26E+00
42	5.90E-06	0.126650376	42	4.92E-01
5	8.53E-02	-0.208144355	5	1.94E+00
15	2.07E-02	0.215213205	15	2.00E-01
2	5.68E-01	-0.008027474	2	6.60E-01
4	1.37E+00	0.021579466	4	6.86E-01

11	2.82E+00	-0.027951073	11	1.50E+00
12	5.23E-04	0.625689105	12	8.36E-03
33	2.39E-07	0.235803614	33	5.80E-02
4	2.60E-02	-0.077529759	4	9.93E-01
3	8.05E-01	-0.273436114	3	1.66E+00
31	7.47E-01	-0.263644271	31	6.29E+02
5	2.99E-02	-0.05777863	5	1.02E+00
16	2.74E+00	0.234421935	16	1.57E-01
7	1.95E+00	0.114423587	7	4.97E-01
49	1.57E-10	0.720716784	49	2.75E-08
4	3.36E-03	0.451452269	4	1.38E-01
12	1.68E+02	-0.659026944	12	2.66E+02
14	2.50E+02	-0.452733431	14	9.47E+01
3	2.91E-01	-0.390784808	3	2.41E+00
64	3.91E-07	0.016753094	64	2.74E+01
1	4.73E-01	0.155115968	1	4.34E-01
76	1.91E-20	0.022461581	76	4.48E+01
6	1.61E+00	-0.729883703	6	2.88E+01
13	3.41E-02	-0.098198889	13	3.26E+00
13	1.74E+00	-0.365514702	13	3.26E+01
13	5.60E+00	-0.322077626	13	2.24E+01
16	2.97E+01	0.270037974	16	1.09E-01
6	2.53E+00	-0.445382596	6	7.31E+00
5	1.12E+01	-0.342987842	5	3.46E+00
6	3.63E+01	-0.21532132	6	2.41E+00
2	5.76E-01	0	2	6.46E-01
3	5.10E+00	-1	3	3.45E+01
7	4.31E+01	-0.642670622	7	2.88E+01
1	5.57E-01	-0.326417494	1	1.20E+00
5	1.85E+00	-0.656725552	5	1.32E+01
14	1.54E-01	-0.575571021	14	2.92E+02
12	5.47E-02	1	12	1.05E-04
5	7.15E-02	0.556853743	5	7.37E-02
16	2.04E+00	-0.683923364	16	1.90E+03
5	2.06E+00	-0.146888079	5	1.49E+00
8	2.97E-01	-0.234151246	8	3.92E+00
20	2.86E+01	-0.101922012	20	8.10E+00
6	7.89E-01	-0.084741194	6	1.29E+00
12	1.66E+00	-0.565167262	12	1.25E+02
2	5.93E-02	-0.23383213	2	1.20E+00
10	6.13E-01	0.896226245	10	2.16E-03
3	1.61E-02	1	3	2.04E-02
6	4.95E-04	0.080265928	6	5.81E-01
11	7.39E-06	-0.208378496	11	5.84E+00
11	9.64E-02	0.044668078	11	8.68E-01
1	9.55E-01	-0.28943181	1	1.11E+00
4	6.07E-03	-0.02406758	4	8.13E-01

23	1.31E-05	0.110658832	23	5.98E-01
19	5.57E+00	0.062169181	19	1.02E+00
19	5.37E-03	0.758879103	19	2.62E-04
5	6.85E-01	-0.499367512	5	6.74E+00
9	1.67E+00	0.038586645	9	8.24E-01
14	2.55E+04	0.763892075	14	1.38E-03
2	3.48E+00	0.07146408	2	5.34E-01
4	2.22E-01	-0.633860932	4	7.92E+00
2	4.93E-01	-0.266574282	2	1.31E+00
25	6.43E+02	-0.368962115	25	8.60E+02
33	1.38E+00	-0.03386423	33	1.10E+01
11	5.95E+00	-1	11	9.51E+03
2	8.98E-01	-0.218543559	2	1.15E+00
11	4.60E+01	-0.676618179	11	1.98E+02
8	7.80E+00	-0.474301536	8	1.62E+01
4	2.25E+00	-0.342187952	4	2.67E+00
5	1.61E+00	-0.193964538	5	1.83E+00
5	3.80E+01	-0.915944579	5	4.00E+01
10	7.69E-03	-0.577239757	10	6.39E+01
4	1.72E-01	-0.625434081	4	7.68E+00
3	1.93E-01	-1	3	1.72E+01
1	5.23E-01	0.022069408	1	5.75E-01
4	6.32E-02	-0.312629319	4	2.39E+00
21	1.04E-01	-0.5989829	21	5.74E+03
6	3.88E-02	-0.022069929	6	9.51E-01
5	9.42E-01	-0.012693662	5	8.42E-01
4	6.45E-03	0.000457249	4	7.42E-01
7	6.28E-01	0.096348648	7	5.48E-01
11	1.83E+02	-0.406338109	11	2.59E+01
25	1.20E+02	-0.165400185	25	3.96E+01
4	6.47E-01	-0.942605834	4	2.51E+01
3	2.73E-01	-0.217135548	3	1.39E+00
15	4.14E-04	0.609141989	15	4.38E-03
18	1.16E-02	-0.31809522	18	7.29E+01
12	2.98E+00	0.106942354	12	5.50E-01
10	9.21E-13	2	10	2.82E-06
72	8.41E-14	-0.08190158	72	2.46E+03
8	9.50E-02	-0.039040023	8	1.24E+00
4	2.66E-02	-0.011754765	4	7.77E-01
18	1.43E+03	-2	18	1.20E+10
4	2.13E+00	-0.485436339	4	4.55E+00
4	5.92E-02	0	4	7.43E-01
4	6.94E-01	-0.090589667	4	1.04E+00
13	1.27E+00	0.031619549	13	1.07E+00
4	1.64E-01	0.341395997	4	2.08E-01
16	4.71E-02	-0.475500627	16	2.25E+02
11	6.05E-02	-0.033624047	11	1.57E+00

24	9.18E-09	0.400733667	24	8.80E-03
2	5.78E-01	0	2	6.46E-01
25	2.33E-02	0.106620631	25	6.49E-01
7	1.79E-03	-0.856307484	7	9.04E+01
9	2.74E-03	1	9	8.86E-04
3	5.26E-01	0.07139524	3	5.52E-01
2	5.00E-01	-0.070320957	2	7.78E-01
21	7.81E+06	-0.812887782	21	9.16E+04
2	5.48E-01	0.285131461	2	3.03E-01
2	7.87E-01	-0.013605195	2	6.69E-01
19	3.93E-01	-0.688287975	19	7.51E+03
6	3.04E+00	-1	6	4.69E+02
9	3.54E-02	0.486191812	9	4.60E-02
6	4.54E+00	-0.016423035	6	9.26E-01
6	1.04E-02	-0.506629136	6	9.82E+00
6	1.34E-01	-0.149929566	6	1.76E+00
3	3.34E-01	-0.017956262	3	7.34E-01
1	5.27E-01	-0.02463656	1	6.34E-01
6	9.25E-01	-0.144994119	6	1.72E+00
1	5.47E-01	-0.02541541	1	6.35E-01
14	7.40E+00	-0.288331592	14	2.10E+01
11	6.32E+00	-0.104307869	11	2.67E+00
3	5.93E-01	-0.007712738	3	7.10E-01
7	1.39E+00	-0.215216672	7	2.91E+00
22	5.18E+02	-0.131616814	22	1.55E+01
19	4.87E-01	0.950549344	19	2.69E-05
15	3.31E-01	-0.044962948	15	2.49E+00
12	3.53E+01	0.401527619	12	5.10E-02
10	9.25E-02	-0.289998975	10	8.59E+00
20	3.90E-03	0.657019934	20	6.59E-04
8	7.14E-01	0.050987047	8	7.29E-01
4	5.13E-02	-0.023898289	4	8.13E-01
20	4.56E-03	-0.51131454	20	1.30E+03
2	2.94E-02	-1	2	1.21E+01
4	3.97E-03	0.50929837	4	1.11E-01
25	7.45E-02	0.02163893	25	2.34E+00
3	3.01E+00	-0.319246102	3	1.92E+00
14	5.44E-02	0.293240092	14	1.02E-01
4	3.27E-01	0.062394481	4	5.89E-01
4	6.29E+00	1	4	4.13E-03
46	1.32E+05	0.216432565	46	4.59E-02
2	7.59E+00	-2	2	7.90E+01
5	1.14E+01	-0.494132791	5	6.59E+00
11	1.07E-02	-0.889951445	11	9.87E+02
52	9.40E-01	0.135678232	52	3.83E-01
4	5.95E-01	0.011806077	4	7.11E-01
3	2.12E+00	1	3	1.92E-02

38	5.51E+06	2	38	2.12E-22
18	2.36E+00	0.126392063	18	4.75E-01
6	1.36E-02	2	6	1.95E-04
31	8.90E+04	3	31	3.16E-24
39	8.56E-03	0.344054484	39	3.52E-03
6	9.62E-01	-0.140232964	6	1.68E+00
1	1.99E+00	-0.222287172	1	9.61E-01
22	4.77E+09	-0.718626976	22	4.28E+04
10	5.55E+00	-0.460388318	10	2.83E+01
3	3.29E-01	0.099835305	3	5.04E-01
5	8.33E-02	0.272011864	5	2.49E-01
19	6.37E-02	-0.592756221	19	2.42E+03
12	1.37E+03	-2	12	4.93E+05
14	1.33E-02	0.128769446	14	4.62E-01
42	3.28E-11	-0.667743273	42	1.22E+08
16	6.91E+00	-0.993644181	16	4.53E+04
8	1.30E+02	-1	8	1.83E+03
5	3.78E-03	1	5	5.92E-03
3	7.49E-01	-0.038786008	3	7.84E-01
4	8.59E-01	-0.464729805	4	4.21E+00
9	9.40E+00	-0.684561852	9	8.70E+01
2	1.91E+00	-0.159996016	2	9.87E-01
5	3.28E-01	-0.163280929	5	1.60E+00
9	1.56E-03	0.403631861	9	7.84E-02
1	3.19E-01	0.05115466	1	5.40E-01
6	1.65E-01	-0.479898083	6	8.63E+00
5	8.80E-01	0.008480983	5	7.69E-01
1	5.27E-01	0.089535856	1	4.98E-01
8	1.24E+01	-0.014026246	8	1.07E+00
22	1.21E-04	0.929341732	22	9.44E-06
8	4.73E-01	-0.356792464	8	8.09E+00
6	2.20E+00	0.365090637	6	1.47E-01
8	2.78E-01	-0.790170603	8	1.04E+02
7	1.59E+01	-0.817171485	7	7.33E+01
5	2.90E-02	-0.404617392	5	4.50E+00
6	1.06E+00	-1	6	1.49E+02
6	4.09E-01	-0.189751054	6	2.13E+00
4	1.60E+01	-1	4	1.13E+02
3	2.55E+00	-0.773531512	3	8.18E+00
5	8.24E+00	-0.56001255	5	8.74E+00
8	2.97E+00	-0.683920425	8	5.57E+01
9	1.66E-02	0.188908955	9	3.13E-01
9	1.81E+00	-0.308788168	9	7.73E+00
11	5.86E+00	-0.219702729	11	6.35E+00
5	1.28E+00	-0.329688321	5	3.26E+00
5	3.20E+00	0.422475641	5	1.31E-01
9	9.22E-01	0.337876866	9	1.20E-01

18	5.84E+00	0.47967474	18	8.70E-03
2	7.12E-03	0.675786784	2	1.08E-01
2	4.82E-01	-0.448345813	2	2.12E+00
9	3.65E-05	0.376862611	9	9.31E-02
6	4.80E-01	-0.192161844	6	2.16E+00
12	8.39E-01	-0.346379442	12	2.13E+01
4	7.63E-01	-0.054737033	4	9.12E-01
20	2.59E-02	0.783063973	20	1.38E-04
2	4.17E-01	0.019084808	2	6.14E-01
21	6.04E+01	-0.779723234	21	5.96E+04
1	1.58E-01	-0.405658815	1	1.41E+00
35	4.57E-05	-0.379586565	35	1.60E+04
6	6.58E-03	-0.620966566	6	1.70E+01
5	2.13E-01	-0.535015677	5	7.85E+00
2	1.87E+00	-0.490163173	2	2.37E+00
3	5.94E-01	0.288720698	3	2.76E-01
5	5.01E-01	-0.593086894	5	1.01E+01
3	7.93E-01	1	3	9.92E-03
7	6.21E+00	1	7	1.08E-03
19	1.26E+04	-0.379985908	19	1.94E+02
5	2.59E+00	-0.275368535	5	2.59E+00
6	1.63E+01	-0.387286021	6	5.53E+00
12	9.07E+01	-0.280788293	12	1.26E+01
4	2.06E+00	-0.62302042	4	7.61E+00
2	6.48E-01	0.03078582	2	5.95E-01
4	5.66E+00	-0.668685275	4	9.02E+00
4	8.19E+00	-0.681679359	4	9.47E+00
3	1.18E+00	-0.181399428	3	1.24E+00
4	2.59E+00	-0.326190803	4	2.51E+00
9	4.10E-01	0.407838123	9	7.63E-02
5	1.24E-01	-0.036711961	5	9.33E-01
4	5.77E-01	-0.067347507	4	9.56E-01
7	5.27E-01	-0.041041347	7	1.14E+00
4	9.17E-01	0	4	7.43E-01
5	6.57E-01	-0.384550996	5	4.13E+00
8	2.07E+01	-1	8	2.82E+03
11	3.82E-01	-0.312353742	11	1.28E+01
4	1.28E-01	-0.080262974	4	1.00E+00
8	2.97E-02	0.012195943	8	9.16E-01
7	7.43E-06	0.314368731	7	1.70E-01
10	3.89E-04	-0.271843012	10	7.57E+00
1	3.00E-01	0.092205329	1	4.96E-01
6	8.52E-01	-0.734987413	6	2.95E+01
6	3.66E-03	-0.143375248	6	1.71E+00
18	1.73E-02	-0.791795748	18	1.56E+04
5	6.93E-01	-0.357430154	5	3.68E+00
4	1.28E+00	-0.393347713	4	3.23E+00

1	5.65E-01	-0.032780689	1	6.45E-01
7	5.74E+01	1	7	3.45E-04
2	1.87E+00	1	2	1.71E-02
11	2.36E+00	1	11	1.52E-05
98	4.40E+01	0.116619474	98	9.33E-01
13	3.73E-03	0.49413854	13	1.98E-02
3	1.49E+00	-0.391492727	3	2.42E+00
5	4.29E+01	-1	5	3.51E+02
6	1.54E-01	-1	6	1.38E+02
10	3.04E+00	0.680457363	10	9.76E-03
4	6.08E-01	0.105395541	4	5.01E-01
20	3.54E+00	0.95016051	20	1.73E-05
8	2.53E+01	0.14503382	8	4.18E-01
5	1.29E+00	-0.235979574	5	2.19E+00
11	7.81E+01	-1	11	4.42E+03
40	1.00E-01	-0.467426938	40	4.90E+05
8	1.74E+00	-0.514785062	8	2.05E+01
5	3.73E-01	-0.115680766	5	1.31E+00
8	1.27E+00	-0.592146732	8	3.24E+01
37	6.23E-05	-0.301247178	37	5.10E+03
9	3.38E-02	-0.080039779	9	1.77E+00
7	3.74E-06	2	7	1.87E-05
5	1.14E-03	0.901023614	5	1.69E-02
7	1.15E-01	-0.583079512	7	2.09E+01
8	1.22E-01	-0.90188178	8	2.02E+02
6	2.15E-01	-0.048194825	6	1.08E+00
8	2.28E+00	-0.058201194	8	1.39E+00
10	3.42E+00	0.039034401	10	8.63E-01
2	5.06E-01	0.064213758	2	5.45E-01
5	1.22E-01	0.090290989	5	5.42E-01
37	1.47E-04	0.155070333	37	2.64E-01
7	1.64E+00	-0.094076314	7	1.52E+00
5	4.04E-01	0.304782551	5	2.17E-01
6	6.47E+00	0.245708257	6	2.62E-01
7	1.04E-01	-0.21127349	7	2.85E+00
9	4.68E+00	0.179162131	9	3.33E-01
13	1.17E-03	-0.820842013	13	1.64E+03
9	1.10E-05	0.77620092	9	7.10E-03
23	8.49E-03	-0.169059369	23	3.03E+01
4	8.17E-01	0.05910857	4	5.96E-01
10	2.35E+00	0.57409754	10	2.05E-02
2	5.57E-01	0.019800701	2	6.13E-01
8	8.67E-01	0.108268017	8	5.20E-01
9	6.26E-02	0.353727056	9	1.08E-01
22	2.19E+00	0.45502034	22	5.68E-03
7	7.80E-01	0.33984558	7	1.48E-01
5	1.40E-02	-0.298245644	5	2.85E+00

22	2.26E+06	-1	22	3.42E+06
10	1.24E+01	-0.207220134	10	4.82E+00
6	2.63E+00	-0.694607933	6	2.43E+01
5	2.79E+00	-0.698831035	5	1.58E+01
7	1.06E+00	-1	7	2.05E+02
3	6.01E-01	-0.214051728	3	1.37E+00
5	2.53E+00	-0.055252785	5	1.01E+00
2	5.39E-01	0	2	6.46E-01
12	2.66E+00	-0.098631709	12	2.89E+00
3	6.63E-01	-0.01685645	3	7.31E-01
3	1.08E+00	-0.122676958	3	1.02E+00
2	5.79E-01	0.008829479	2	6.31E-01
7	4.52E+02	-1	7	1.80E+03
9	5.18E+03	-0.323220096	9	8.48E+00
5	8.28E-01	-0.559884494	5	8.73E+00
7	1.54E+01	-0.209520086	7	2.82E+00
7	2.10E-01	-0.200648324	7	2.69E+00
9	3.51E-03	0.251513692	9	2.09E-01
7	1.02E-02	-0.10341785	7	1.60E+00
8	2.79E-02	0.715959848	8	1.44E-02
4	4.44E-01	-0.305434079	4	2.32E+00
4	1.04E+00	-0.047719132	4	8.88E-01
5	8.28E-02	-0.288589966	5	2.74E+00
5	7.60E-02	0.299188319	5	2.22E-01
4	3.33E-01	0.080954092	4	5.49E-01
5	3.63E-05	2	5	3.84E-04
4	1.99E-04	2	4	1.95E-04
1	2.84E-01	0.099664932	1	4.88E-01
3	8.64E-02	-0.048459157	3	8.09E-01
3	7.36E-02	-0.01831178	3	7.34E-01
3	2.84E-01	-0.009107265	3	7.13E-01
1	5.02E-01	0	1	6.02E-01
8	1.07E-03	1	8	2.04E-03
6	1.24E-02	0.397269593	6	1.26E-01
2	1.59E-01	-0.465304671	2	2.22E+00
2	1.04E+00	0.387072374	2	2.32E-01
2	1.88E-01	-0.292708719	2	1.40E+00
2	7.26E-01	-0.160273404	2	9.87E-01
1	4.69E-01	0.05776329	1	5.33E-01
4	5.05E-05	0.83635479	4	3.27E-02
8	1.72E-09	0.914181779	8	4.47E-03
11	1.18E-05	0.650498033	11	9.08E-03
15	3.76E-05	-0.521243101	15	2.52E+02
5	1.34E+00	0	5	7.97E-01
13	1.50E-02	-0.253708811	13	1.24E+01
42	2.10E-03	-0.356919045	42	6.35E+04
4	4.11E-01	-0.815349213	4	1.56E+01

2	1.32E-01	0.275297402	2	3.11E-01
16	4.34E-01	-0.066000455	16	3.40E+00
9	9.92E-03	0.152551665	9	3.95E-01
8	1.66E-03	-0.628883327	8	4.03E+01
17	3.38E-08	0.932508678	17	7.97E-05
9	3.63E-07	0.088475567	9	5.97E-01
2	4.99E-01	0.227659402	2	3.53E-01
4	3.37E-01	0.610261318	4	7.61E-02
37	8.28E+12	-1	37	6.97E+12
8	1.59E-01	-0.197757482	8	3.16E+00
11	1.56E-03	-0.435022481	11	3.21E+01
18	1.40E-03	0.207891772	18	1.89E-01
13	6.47E-01	-0.624763211	13	3.04E+02
3	2.10E-01	-0.40793318	3	2.55E+00
37	2.15E-04	0.149118171	37	3.00E-01
1	5.48E-01	-0.348715437	1	1.25E+00
1	5.42E-01	-0.081970641	1	7.15E-01
36	1.56E-02	-0.20652755	36	5.48E+02
13	1.12E+01	-0.23367928	13	1.05E+01
8	4.17E-01	-0.408954236	8	1.10E+01
14	2.68E-01	0.144929094	14	3.98E-01
1	5.05E-01	0.034794354	1	5.59E-01
6	1.20E+00	0.005194418	6	8.34E-01
15	2.56E+05	-0.41166661	15	8.72E+01
11	1.79E+04	-0.852136864	11	7.43E+02
18	2.83E+00	-0.24793762	18	3.29E+01
22	6.55E-01	-0.770515995	22	8.62E+04
26	6.11E-03	0.37993659	26	9.09E-03
5	2.55E-01	0.296674971	5	2.24E-01
10	1.34E-03	-1	10	3.25E+03
5	6.76E+00	-0.478637901	5	6.17E+00
4	3.83E-01	-0.066681637	4	9.53E-01
5	5.34E-04	-0.444953774	5	5.34E+00
10	1.09E-09	2	10	5.94E-06
30	6.67E-03	-0.004222482	30	4.98E+00
12	1.29E-04	0.473998907	12	2.84E-02
12	8.04E-01	-0.019311177	12	1.52E+00
5	6.49E-01	-0.302900438	5	2.91E+00
6	5.22E+00	-0.12352478	6	1.55E+00
273	3.64E+05	-0.13434334	273	6.42E+16
33	5.63E-03	-0.217061531	33	3.89E+02
16	1.67E-01	-0.097032939	16	4.66E+00
16	2.66E+01	-0.058260493	16	3.14E+00
26	2.38E+08	-0.769926437	26	6.01E+05
11	3.36E+00	0.376373308	11	7.15E-02
11	3.73E+00	-0.556671297	11	8.03E+01
18	7.68E+01	0.931710627	18	5.21E-05

4	8.01E-01	-0.398868633	4	3.29E+00
5	2.04E+00	-0.20632419	5	1.93E+00
5	2.26E+01	-2	5	1.59E+03
4	1.33E+00	-1	4	4.88E+01
52	1.37E-06	0.065649891	52	3.07E+00
7	3.17E-11	1	7	6.62E-04
2	1.41E-02	0.193847055	2	3.86E-01
29	2.32E-14	1	29	5.19E-10
6	1.06E-05	0.253867865	6	2.52E-01
27	4.10E-10	0.7599724	27	1.68E-05
9	4.03E-04	1	9	1.60E-04
11	6.97E+00	2	11	1.48E-06
10	2.99E-01	-0.126516474	10	2.74E+00
36	3.70E-05	0.080339184	36	1.29E+00
5	6.10E-01	-0.289806122	5	2.75E+00
14	9.25E-03	-1	14	3.05E+04
3	3.05E-01	0.327277794	3	2.44E-01
5	7.64E-07	3	5	2.39E-06
2	6.22E-01	0.038009056	2	5.84E-01
13	2.73E-02	0.08490117	13	6.73E-01
26	1.94E-08	1	26	1.33E-07
4	1.61E-02	-0.261353147	4	1.97E+00
2	2.42E-02	-0.388042431	2	1.81E+00
4	4.94E-01	-1	4	3.76E+01
12	1.71E+00	2	12	1.47E-06
1	5.55E-01	0.34639802	1	2.90E-01
9	1.55E-02	-0.387267766	9	1.28E+01
7	9.64E-04	-0.243393639	7	3.38E+00
22	8.41E-03	0.232742073	22	1.14E-01
22	7.55E-04	-0.756072781	22	7.09E+04
13	2.01E-05	-0.680232061	13	4.90E+02
11	7.13E-08	0.36495654	11	7.79E-02
9	4.25E-05	-0.293228081	9	6.99E+00
5	1.08E+00	-0.674985882	5	1.43E+01
6	2.23E-01	0.126557073	6	4.65E-01
4	1.60E-02	-0.310935418	4	2.37E+00
7	1.01E+01	-0.787544546	7	6.25E+01
12	4.73E-01	-0.073672271	12	2.36E+00
6	4.25E-01	-0.399165253	6	5.85E+00
10	2.43E+00	-0.061820846	10	1.75E+00
12	3.62E+01	0.264268865	12	1.55E-01
12	5.05E-01	0.2507485	12	1.72E-01
12	2.12E-01	-0.253178438	12	1.01E+01
8	2.14E-01	-0.594856915	8	3.30E+01
10	5.60E-04	0.48285488	10	3.88E-02
15	1.47E-04	0.078757734	15	7.50E-01
3	3.09E-01	-0.580997419	3	4.42E+00

11	2.66E+00	0.189890453	11	2.91E-01
12	5.91E-01	-0.044564696	12	1.87E+00
3	1.55E+00	-0.27271679	3	1.65E+00
20	1.55E-01	-0.191653844	20	2.47E+01
36	1.28E-04	0.053664787	36	2.27E+00
5	3.66E-01	-0.939585933	5	4.43E+01
22	8.23E+00	0.109336924	22	6.02E-01
10	7.44E+00	-0.242166019	10	6.15E+00
12	4.00E-05	0.249097828	12	1.75E-01
4	5.64E-03	-0.015603403	4	7.88E-01
13	7.77E+02	0.74428161	13	2.30E-03
4	7.90E-01	0.101556241	4	5.09E-01
5	4.93E-02	0.526791365	5	8.38E-02
6	2.05E-04	0.422363951	6	1.12E-01
4	6.24E-01	0.260427354	4	2.81E-01
4	6.41E-01	-0.116613992	4	1.15E+00
5	1.09E-02	0.650483271	5	4.94E-02
4	1.24E-01	-0.403206449	4	3.35E+00
5	8.01E-02	-0.459421343	5	5.68E+00
2	3.58E-01	0	2	6.46E-01
3	4.91E-01	-0.048458243	3	8.09E-01
11	3.20E-03	0.565581666	11	1.72E-02
12	4.09E-07	0.939192495	12	6.66E-04
8	9.81E-07	3	8	3.43E-07
8	2.29E-06	2	8	7.00E-07
8	1.12E+00	0.883693399	8	5.35E-03
5	4.77E-01	-0.181136106	5	1.73E+00
12	3.66E-02	0.027935955	12	1.04E+00
2	9.97E-02	0.339607392	2	2.63E-01
6	3.25E-04	-0.340075826	6	4.40E+00
4	3.69E-02	-0.061904416	4	9.36E-01
7	2.92E-03	-0.566074224	7	1.91E+01
1	5.28E-01	-0.042113636	1	6.58E-01
4	6.91E-01	-0.656930869	4	8.63E+00
3	3.29E-02	0.360095509	3	2.20E-01
6	2.06E-03	0.288203442	6	2.13E-01
7	4.41E-03	1	7	5.62E-04
5	9.95E-07	3	5	1.48E-05
2	8.25E-02	0.182728784	2	3.98E-01
21	1.52E-04	0.635566589	21	6.54E-04
5	3.99E-01	-0.191549213	5	1.81E+00
4	4.67E-01	0.612043061	4	7.56E-02
1	4.92E-01	0.013817345	1	5.85E-01
21	8.23E-02	0.369286648	21	2.06E-02
7	7.78E-01	0.429676814	7	9.17E-02
10	1.70E-01	-0.003975301	10	1.16E+00
15	8.46E-04	-0.141903661	15	6.37E+00

2	2.73E-02	0.10211333	2	4.93E-01
6	5.17E-02	-0.221464832	6	2.49E+00
10	7.42E+00	-0.357700895	10	1.38E+01
6	1.20E-02	-0.314536804	6	3.89E+00
4	8.74E-02	-1	4	3.61E+01
10	5.40E+00	-0.405437944	10	1.92E+01
4	3.34E-01	0.023071718	4	6.82E-01
13	4.66E-10	2	13	5.27E-07
4	6.18E-02	0.070130645	4	5.72E-01
4	3.19E-02	0.392861391	4	1.71E-01
5	1.54E-03	-0.142396572	5	1.47E+00
5	3.08E-01	0.011378633	5	7.59E-01
7	1.82E-02	0.031389358	7	7.76E-01
23	1.70E-07	0.508522194	23	2.25E-03
11	2.24E-08	0.607269337	11	1.26E-02
7	2.00E-03	0.927497252	7	6.36E-03
12	2.26E-05	0.897506772	12	9.32E-04
13	1.22E+00	-0.146131717	13	4.92E+00
1	5.42E-01	0	1	6.02E-01
5	4.84E-02	-0.385466819	5	4.14E+00
2	3.94E-01	0.145437584	2	4.39E-01
12	7.29E-01	-0.020623629	12	1.54E+00
4	1.22E+00	-0.231918825	4	1.77E+00
10	2.28E-02	0.310622012	10	1.29E-01
4	6.17E-02	-0.074361616	4	9.81E-01
30	1.15E-08	0.023113731	30	3.06E+00
7	7.85E-02	-0.12835861	7	1.83E+00
4	1.78E-02	0.200077503	4	3.52E-01
11	1.01E-03	0.666737861	11	8.03E-03
3	1.11E-01	0.396853483	3	1.95E-01
12	1.94E-02	0.742787275	12	3.25E-03
18	3.27E+01	0.973119992	18	3.26E-05
8	7.84E-04	-0.385346164	8	9.57E+00
2	2.88E-01	-0.243896107	2	1.23E+00
9	1.57E-03	1	9	6.17E-04
19	1.78E-02	-0.39871299	19	2.42E+02
15	8.11E-01	-0.31019396	15	3.26E+01
1	6.49E-01	-0.043782591	1	6.60E-01
9	3.08E-01	-0.643611652	9	6.68E+01
9	1.67E-01	0.0457395	9	7.86E-01
1	2.06E-01	-0.877031444	1	3.82E+00
18	3.45E-02	0.201075859	18	2.04E-01
3	7.24E-01	-0.523777641	3	3.69E+00
2	4.73E-01	0.011607769	2	6.26E-01
4	1.51E-01	0.228993613	4	3.16E-01
9	3.93E-01	0.278873761	9	1.75E-01
6	1.58E-01	0.353347696	6	1.56E-01

4	8.17E-02	0.114787213	4	4.84E-01
4	7.40E-01	-0.236331729	4	1.80E+00
7	3.75E-02	0.136916729	7	4.41E-01
6	3.34E-05	0.557878376	6	5.82E-02
4	2.38E-01	0.175479989	4	3.86E-01
18	4.59E-08	-0.483852011	18	4.76E+02
11	1.38E+00	-0.672408491	11	1.92E+02
13	1.09E+00	-0.399660519	13	4.37E+01
2	1.11E-01	-0.161911053	2	9.92E-01
2	6.91E-02	-0.006124251	2	6.56E-01
2	5.51E-01	0.024011872	2	6.06E-01
3	2.13E-05	2	3	5.76E-03
10	1.74E-08	0.529308571	10	2.81E-02
17	1.55E-02	0.782467477	17	4.02E-04
27	2.02E-04	0.437331352	27	3.13E-03
4	4.85E-04	-0.693308201	4	9.89E+00
12	3.09E-04	0.152527917	12	3.81E-01
8	1.08E-05	2	8	1.24E-06
4	1.78E-03	0.717408079	4	5.10E-02
4	2.54E-01	0.195093632	4	3.59E-01
5	1.28E-02	-0.12071834	5	1.34E+00
26	6.84E-19	2	26	7.72E-11
19	3.13E-06	0.515593829	19	4.70E-03
14	1.75E-02	-0.32836771	14	3.03E+01
8	2.31E-01	0.181985947	8	3.36E-01
12	3.69E-04	0.911652427	12	8.32E-04
12	4.66E+00	-0.452529473	12	5.03E+01
5	9.70E-02	-0.010231444	5	8.33E-01
3	5.69E-01	0.028640767	3	6.32E-01
41	3.58E-07	0.1733145	41	1.62E-01
19	6.21E-01	0.038580293	19	1.35E+00
4	5.40E-01	-0.196473844	4	1.55E+00
6	7.73E-01	-0.804554391	6	4.13E+01
2	1.01E-01	-0.185977096	2	1.06E+00
17	2.40E-01	-0.541246533	17	6.34E+02
5	1.10E+00	-0.287476951	5	2.73E+00
8	4.64E+00	-0.199973878	8	3.20E+00
40	2.03E+03	-0.214135137	40	1.36E+03
6	3.89E+00	-0.545122409	6	1.18E+01
6	3.27E+00	-0.37868758	6	5.30E+00
9	3.31E+00	-0.048259713	9	1.44E+00
4	1.27E+00	-0.255657887	4	1.93E+00
11	8.75E-01	-0.868939574	11	8.43E+02
11	2.24E-03	0.096434028	11	5.88E-01
16	2.41E+00	-0.10228968	16	4.92E+00
10	1.50E+03	-0.809474423	10	3.24E+02
5	1.02E+01	-0.545801871	5	8.22E+00

17	5.39E+00	0.160920317	17	3.27E-01
18	4.53E-06	0.898423972	18	7.59E-05
10	3.34E+01	0.075219689	10	6.70E-01
4	1.22E-01	-0.118100739	4	1.16E+00
4	3.16E-01	0.105806681	4	5.01E-01
2	8.08E-02	0.182175136	2	3.99E-01
4	8.53E-02	-0.386201478	4	3.14E+00
6	2.13E+00	2	6	2.87E-04
4	6.72E-01	-0.034966813	4	8.47E-01
3	6.14E-01	-0.967453304	3	1.52E+01
3	1.01E+00	-0.223782584	3	1.41E+00
3	1.10E+00	0.105440154	3	4.95E-01
13	4.52E-01	0.117044124	13	5.10E-01
10	1.53E+00	0.110880739	10	5.22E-01
6	9.56E-01	1	6	9.32E-04
26	5.63E-02	0.334518649	26	1.85E-02
1	3.50E-02	0.019403234	1	5.78E-01
3	2.20E-01	-0.004539875	3	7.03E-01
12	6.10E-02	0.231556554	12	2.01E-01
45	2.94E-04	0.103658958	45	8.99E-01
13	1.79E-04	-0.046089677	13	2.08E+00
16	1.50E+00	-0.102757899	16	4.95E+00
8	1.78E-01	0.078785615	8	6.18E-01
17	6.59E-03	-0.026824977	17	2.47E+00
15	3.79E-02	-0.625050537	15	6.91E+02
14	6.80E-01	-0.347416021	14	3.61E+01
10	1.44E+00	-0.316637511	10	1.04E+01
9	1.06E+00	-0.74016836	9	1.25E+02
26	1.69E-07	-0.046926712	26	7.27E+00
3	4.69E-01	-0.003029882	3	6.99E-01
8	7.91E-04	-1	8	5.13E+02
2	3.26E-01	0.049975574	2	5.66E-01
25	3.57E-06	-0.031718608	25	5.25E+00
23	3.39E-12	0.409420519	23	9.03E-03
2	4.74E-01	0	2	6.46E-01
6	7.35E-05	0.005997932	6	8.31E-01
8	6.52E-02	0.216182257	8	2.75E-01
5	1.02E-01	0.170895083	5	3.84E-01
5	4.91E-02	-0.532980672	5	7.79E+00
7	1.39E-01	0.481221975	7	6.96E-02
5	5.81E-03	1	5	2.12E-03
16	8.09E-05	2	16	4.35E-08
7	2.18E-02	-0.468493535	7	1.13E+01
8	5.41E-02	0.074411558	8	6.35E-01
2	1.87E+00	-0.187723499	2	1.06E+00
3	5.68E-01	-0.057123879	3	8.31E-01
6	4.25E-02	0.054641057	6	6.57E-01

21	1.44E+00	0.346501448	21	2.76E-02
7	4.53E-01	0.406243803	7	1.04E-01
5	8.68E-01	0.490818645	5	9.78E-02
7	6.39E-05	0.839593936	7	1.02E-02
4	2.50E-02	1	4	1.38E-02
4	1.65E-01	-0.612156206	4	7.31E+00
9	3.04E-05	0.389138418	9	8.60E-02
3	1.99E-01	0.010334405	3	6.70E-01
2	7.37E-03	-0.775430528	2	5.04E+00
4	3.29E-01	0.0946426	4	5.22E-01
6	2.08E-01	-0.669093898	6	2.15E+01
4	1.39E+00	-0.469681256	4	4.29E+00
5	2.31E+00	0.235313069	5	2.92E-01
18	3.52E+04	-0.659441563	18	3.48E+03
2	6.07E-01	-0.046030071	2	7.29E-01
13	8.45E-01	-0.000521932	13	1.41E+00
8	2.69E-01	-0.062127373	8	1.42E+00
40	1.47E-02	-0.193751058	40	8.44E+02
15	2.04E-01	-0.300175759	15	2.96E+01
10	3.21E+00	-0.553296371	10	5.41E+01
12	5.80E-03	0.060327023	12	8.01E-01
29	9.35E+00	-0.101302192	29	2.48E+01
4	9.86E-01	-0.158853893	4	1.34E+00
10	1.92E-02	-0.457525364	10	2.77E+01
17	2.84E-01	-0.209829364	17	1.78E+01
2	4.99E-01	-0.016152121	2	6.74E-01
4	5.06E-01	-0.105679603	4	1.10E+00
13	1.35E+01	0.627682025	13	6.28E-03
23	1.07E-01	0.105993321	23	6.38E-01
4	7.35E-02	0.000239784	4	7.43E-01
6	8.77E-01	-0.261590241	6	3.02E+00
10	1.38E+00	-0.743534087	10	2.04E+02
12	2.67E+00	-0.072571604	12	2.34E+00
5	4.96E-01	-0.505704197	5	6.93E+00
7	1.08E-01	-0.601629432	7	2.31E+01
12	4.26E+00	-0.246404024	12	9.53E+00
2	1.63E+00	0.256176278	2	3.28E-01
2	6.44E-01	-0.084847795	2	8.09E-01
5	1.07E+00	-0.111779542	5	1.29E+00
3	5.94E-01	-0.008701971	3	7.12E-01
4	4.54E+00	0.082037249	4	5.47E-01
6	5.69E-01	-0.343609169	6	4.48E+00
26	1.82E-01	-0.722211214	26	2.85E+05
2	5.78E-03	-0.751474372	2	4.73E+00
3	3.14E-03	-0.27451344	3	1.66E+00
6	4.07E+00	0.038393967	6	7.11E-01
2	5.52E-01	0	2	6.46E-01

2	6.73E-01	0.477157302	2	1.82E-01
4	1.13E+00	0.082189584	4	5.47E-01
4	2.30E-01	-0.029674225	4	8.30E-01
1	5.36E-01	0	1	6.02E-01
1	5.02E-01	0	1	6.02E-01
9	8.35E-04	-0.009576156	9	1.12E+00
2	5.96E-02	-0.008423502	2	6.60E-01
10	2.27E-02	-0.341200455	10	1.23E+01
4	4.45E-01	-0.006038007	4	7.60E-01
6	2.77E+02	0.62891258	6	4.13E-02
14	4.58E+02	-0.40625404	14	6.19E+01
7	4.96E+00	1	7	3.90E-03
7	1.06E+01	0.040135755	7	7.40E-01
2	4.24E-01	0.019171647	2	6.14E-01
4	4.40E-01	-0.05277673	4	9.05E-01
8	1.32E-02	0.819793241	8	7.80E-03
2	5.53E-01	-0.341579909	2	1.60E+00
2	4.10E-01	-0.231514974	2	1.19E+00
2	2.05E+00	-0.864627235	2	6.38E+00
2	2.01E+00	-0.537482847	2	2.68E+00
3	5.96E+01	-1	3	3.54E+01
6	3.68E-01	2	6	4.90E-04
2	5.43E-01	-0.152370924	2	9.67E-01
6	1.28E+00	-0.313959084	6	3.88E+00
3	1.59E-01	0	3	6.93E-01
17	9.43E-01	-0.094080565	17	5.11E+00
30	2.54E+11	0.046051615	30	2.03E+00
51	2.89E-01	-0.103881773	51	4.20E+02
9	1.90E-01	-0.162995873	9	3.02E+00
8	2.27E-01	-0.432189563	8	1.26E+01
9	3.67E-01	0.370789518	9	9.68E-02
10	3.31E-04	0.443109886	10	5.13E-02
3	2.57E-01	0.013935223	3	6.63E-01
9	1.16E+00	-0.448147173	9	1.90E+01
15	4.60E-01	-0.271254774	15	2.23E+01
67	1.25E-01	1	67	1.33E-15
12	1.95E+02	-0.137588821	12	3.96E+00
13	4.39E-04	-0.318056558	13	2.17E+01
6	4.49E-02	0.097759267	6	5.34E-01
33	1.59E+01	0.332738298	33	8.80E-03
17	3.88E+00	-0.223779954	17	2.07E+01
21	3.15E-04	0.010991532	21	2.13E+00
24	1.65E+04	-1	24	1.37E+08
4	3.27E-01	0.164939836	4	4.01E-01
13	4.55E+02	-0.992139023	13	7.19E+03
5	1.13E+00	0.024054672	5	7.19E-01
9	5.46E-04	1	9	1.46E-03

18	7.19E-01	-0.01357938	18	2.32E+00
4	2.23E-01	0	4	7.43E-01
7	3.68E-02	-0.568889994	7	1.94E+01
3	3.52E-01	-0.043068063	3	7.95E-01
15	3.85E-01	0.469648748	15	1.69E-02
4	3.66E+00	0.34495635	4	2.05E-01
6	7.54E-02	-0.312395544	6	3.85E+00
3	1.29E-02	0.009857959	3	6.71E-01
13	3.06E-01	1	13	6.23E-05
11	6.91E-02	0.036045691	11	9.27E-01
47	5.95E+15	2	47	8.77E-19
23	3.13E-02	-0.112377103	23	1.37E+01
10	2.76E+03	3	10	1.19E-08
25	8.11E-03	-0.124440509	25	2.13E+01
1	3.86E-01	0.047327319	1	5.45E-01
8	1.14E-03	1	8	2.42E-04
1	6.19E-02	0.371774566	1	2.75E-01
3	6.18E-01	-0.012373312	3	7.21E-01
12	2.63E+01	0.5322625	12	1.78E-02
16	1.10E+01	0.109136356	16	5.65E-01
18	1.91E+01	-0.596343969	18	1.70E+03
9	9.24E-04	0.105172239	9	5.36E-01
11	1.84E-02	0.234707187	11	2.08E-01
5	8.90E-01	0.825019034	5	2.34E-02
10	5.41E-01	0.2407185	10	2.11E-01
6	1.96E+00	-0.275243321	6	3.22E+00
8	6.51E+00	-0.700051333	8	6.13E+01
4	3.50E+00	-0.142312657	4	1.26E+00
2	1.06E+00	-0.032567533	2	7.04E-01
5	1.57E+01	-0.354383704	5	3.63E+00
7	6.93E-01	-0.251079319	7	3.52E+00
4	6.77E+00	-0.573720846	4	6.33E+00
18	7.31E+00	-0.048412627	18	3.44E+00
7	2.02E+00	-0.201220121	7	2.70E+00
6	2.05E+00	-0.30566322	6	3.73E+00
10	6.45E+02	-0.42109756	10	2.15E+01
19	4.03E-04	-0.228555158	19	3.21E+01
8	4.10E-01	-0.713748667	8	6.65E+01
15	7.75E-01	0.865950823	15	3.63E-04
5	4.11E-01	-0.039478333	5	9.44E-01
4	6.75E-01	-0.001772791	4	7.48E-01
5	1.73E+00	-0.353088445	5	3.61E+00
6	8.50E+00	-1	6	1.62E+02
6	9.05E-01	-0.006632607	6	8.83E-01
14	3.23E-01	-0.397668574	14	5.72E+01
12	2.54E-07	-0.235928088	12	8.75E+00
3	6.81E-01	0.224183032	3	3.39E-01

6	1.32E+01	0.186944171	6	3.48E-01
10	5.85E+00	-0.263904317	10	7.16E+00
9	2.82E-01	0.549202853	9	3.07E-02
14	2.04E+00	-0.458306584	14	9.97E+01
11	4.03E-01	0.389034654	11	6.50E-02
8	1.36E+00	-0.151766703	8	2.41E+00
1	6.50E-02	0.470049983	1	2.24E-01
12	8.66E-04	-0.372927567	12	2.64E+01
14	6.31E+01	-0.298508066	14	2.31E+01
16	2.02E+00	0.722185707	16	1.06E-03
3	6.05E-01	0.043003679	3	6.04E-01
3	2.88E-01	-0.273301281	3	1.66E+00
6	5.53E-03	-0.919450959	6	7.18E+01
6	1.30E+00	-0.337458761	6	4.35E+00
7	1.95E+00	-0.326889798	7	5.29E+00
23	1.42E+02	-0.325951803	23	2.74E+02
1	5.64E-01	-0.303168675	1	1.14E+00
1	5.64E-01	-0.303168675	1	1.14E+00
1	5.64E-01	-0.303168675	1	1.14E+00
14	1.42E-01	0.231080376	14	1.81E-01
10	2.62E+00	0.041570569	10	8.47E-01
15	1.48E+01	0.955851011	15	1.52E-04
7	3.57E+01	1	7	1.32E-03
12	3.70E+03	1	12	6.09E-05
4	2.17E-01	0.461206693	4	1.33E-01
14	3.63E+01	-0.363637289	14	4.19E+01
22	1.07E+00	0.255533182	22	8.38E-02
54	2.39E-09	0.112150929	54	7.85E-01
2	5.85E-01	0	2	6.46E-01
17	2.27E+00	0.317145844	17	6.07E-02
3	1.10E+00	-0.124243278	3	1.03E+00
10	1.08E+00	-0.594074836	10	7.19E+01
10	2.87E-02	-0.127575497	10	2.76E+00
4	1.15E-02	-0.335626011	4	2.60E+00
11	9.12E-04	0.091396456	11	6.11E-01
13	6.49E-04	-1	13	1.66E+05
9	1.09E+00	-0.956108578	9	5.01E+02
17	7.17E-07	-0.008286986	17	2.03E+00
18	6.73E-01	-0.414569501	18	2.17E+02
1	1.22E+00	-0.964908088	1	4.60E+00
23	2.81E-03	1	23	1.30E-06
36	9.35E-25	1	36	1.47E-10
7	2.15E+03	-1	7	2.20E+03
3	1.17E+00	-0.14439879	3	1.10E+00
13	1.77E+00	-0.407596845	13	4.68E+01
37	3.89E+04	0.024741374	37	4.42E+00
7	4.52E-01	-0.023394543	7	1.04E+00

38	3.56E-10	0.27405149	38	1.86E-02
12	4.49E+01	-0.058727057	12	2.09E+00
12	5.98E+01	-0.606382402	12	1.74E+02
15	2.23E-01	-0.473729143	15	1.59E+02
13	9.61E-01	-0.583091327	13	2.12E+02
5	3.75E-01	-1	5	2.51E+02
32	1.29E-02	0.223465559	32	7.76E-02
17	3.60E+01	-0.353441029	17	8.37E+01
24	1.09E-03	-0.052643214	24	6.53E+00
36	1.79E+08	0.340326517	36	5.39E-03
28	7.45E+08	0.482392027	28	1.25E-03
13	2.18E+01	-0.166107017	13	5.85E+00
14	3.72E+01	0.074849392	14	7.56E-01
3	1.96E-01	-0.277798155	3	1.68E+00
5	5.60E-01	-0.0581	5	1.02E+00
14	2.78E-01	-0.178975428	14	7.73E+00
8	1.89E+00	0.249795969	8	2.25E-01
5	6.75E-01	-0.00616794	5	8.19E-01
46	4.90E+04	-0.434245557	46	1.42E+06
17	5.64E+00	-0.148958153	17	9.23E+00
18	1.67E+02	-0.176937927	18	1.47E+01
9	3.82E-01	-0.177386612	9	3.31E+00
11	1.02E+00	-0.128890199	11	3.21E+00
14	1.38E+01	0.499046729	14	1.56E-02
15	1.62E-01	-0.064021242	15	3.00E+00
6	1.44E-01	0.170857241	6	3.76E-01
9	5.47E+00	0.35565122	9	1.07E-01
20	1.08E+04	-0.605500772	20	4.19E+03
33	1.94E+01	0.118766745	33	5.66E-01
1	3.62E-01	-0.28943181	1	1.11E+00
17	1.16E-02	-0.126070371	17	7.21E+00
23	2.88E-03	1	23	6.20E-07
38	1.26E+02	-0.298731282	38	6.09E+03
12	4.68E-03	0.075245735	12	7.10E-01
14	1.97E-02	-0.157290495	14	6.33E+00
4	6.62E+00	-0.586967729	4	6.65E+00
14	1.08E+02	1	14	1.78E-06
6	3.20E-01	0.2957789	6	2.06E-01
13	1.48E-03	1	13	6.76E-06
5	1.50E-01	0.138548622	5	4.41E-01
5	1.55E-02	-0.083443431	5	1.14E+00
15	1.30E-01	-0.087032954	15	3.74E+00
6	9.63E-02	0.128652536	6	4.60E-01
5	9.68E-02	-0.187903224	5	1.78E+00
6	1.69E-01	-0.471459512	6	8.29E+00
5	2.08E-01	0.135742886	5	4.46E-01
12	3.15E+00	-1	12	4.71E+03

13	1.99E-02	-0.060482101	13	2.36E+00
3	5.86E-01	0	3	6.93E-01
16	7.88E+00	0.082126428	16	7.45E-01
18	1.13E+00	0.407885626	18	1.96E-02
6	3.59E+03	-0.68282205	6	2.30E+01
24	5.12E+01	0.147405448	24	3.53E-01
4	5.48E-01	-0.168209818	4	1.39E+00
13	2.14E+01	-1	13	1.06E+04
19	9.53E-03	0.400913413	19	1.83E-02
15	9.79E-04	0.337956983	15	6.08E-02
12	9.06E-05	-0.208049409	12	6.99E+00
7	1.72E-06	0.438257027	7	8.76E-02
11	2.51E+00	0.113667582	11	5.17E-01
6	4.97E+01	2	6	4.00E-04
16	2.97E-01	-0.079928753	16	3.92E+00
21	4.67E+01	-0.15615671	21	1.85E+01
13	3.11E-04	0.875709225	13	7.42E-04
4	2.93E-04	2	4	2.45E-03
2	2.51E-02	0.44763756	2	1.97E-01
10	1.20E+00	0	10	1.13E+00
2	1.12E-01	-0.175640942	2	1.03E+00
2	6.12E-01	0	2	6.46E-01
6	1.15E+00	-0.259229758	6	2.98E+00
9	5.47E+00	-0.205176158	9	3.96E+00
2	8.97E-01	-0.376034326	2	1.75E+00
2	7.19E-01	-0.108631912	2	8.61E-01
6	9.19E+01	0.146279812	6	4.23E-01
17	1.13E+01	0.174718413	17	2.82E-01
4	4.92E-02	0.465220841	4	1.31E-01
16	9.80E+00	0.089656102	16	6.90E-01
5	1.08E+01	0.964574251	5	1.29E-02
26	2.90E+03	-0.114857507	26	2.11E+01
3	2.98E-01	-0.198729831	3	1.31E+00
31	2.90E+01	0.260630925	31	4.13E-02
6	2.54E+00	-0.187609807	6	2.11E+00
19	2.14E+03	-1	19	6.95E+07
7	4.80E+00	-0.528812326	7	1.56E+01
11	1.33E+00	-0.227537263	11	6.74E+00
4	6.60E-01	0.006258725	4	7.26E-01
9	1.27E+01	-0.191015797	9	3.62E+00
5	1.30E+00	-0.538843741	5	7.98E+00
2	5.60E-01	-0.008953514	2	6.61E-01
23	5.19E-01	0.164418843	23	2.81E-01
18	3.22E+00	0.018383951	18	1.61E+00
5	1.09E+00	-0.046699645	5	9.74E-01
10	7.51E+00	-0.590250715	10	7.00E+01
16	1.05E+02	-0.468718799	16	2.10E+02

23	1.94E+01	-0.140348647	23	2.02E+01
3	1.24E+00	-0.345203159	3	2.08E+00
25	8.53E-03	-0.224180486	25	9.64E+01
9	8.24E-01	-0.080810004	9	1.78E+00
11	1.56E+02	-0.284768868	11	1.04E+01
7	3.05E+00	-0.186079636	7	2.49E+00
19	3.12E+00	0.120055443	19	5.13E-01
11	1.79E+00	-0.270473463	11	9.31E+00
2	3.07E-01	-0.526368757	2	2.60E+00
5	7.65E-02	-1	5	9.58E+01
7	1.47E+00	-0.647182757	7	2.95E+01
14	1.37E+02	-0.791525811	14	2.11E+03
5	2.45E-01	-0.332029986	5	3.30E+00
2	1.16E+00	-0.097354019	2	8.36E-01
3	3.15E+00	-0.148251809	3	1.11E+00
36	6.64E+06	-0.843528624	36	3.72E+08
10	3.33E+01	-0.876653341	10	5.18E+02
4	2.70E-01	-0.189080273	4	1.51E+00
46	1.09E-03	-0.26818748	46	1.74E+04
11	7.85E-01	-0.043885929	11	1.69E+00
20	2.41E-03	0.492665477	20	5.07E-03
15	6.79E+03	-0.109157043	15	4.64E+00
6	1.46E+01	0.380560979	6	1.37E-01
14	4.55E+00	-0.285985602	14	2.06E+01
11	6.22E+01	-1	11	2.44E+03
4	5.61E-04	2	4	1.42E-04
1	5.24E-01	0	1	6.02E-01
1	5.24E-01	0	1	6.02E-01
1	5.15E-01	-0.026464731	1	6.36E-01
8	3.78E-01	0.015479517	8	8.98E-01
34	6.59E+02	0.286891308	34	1.97E-02
2	6.77E-01	-0.097269493	2	8.36E-01
8	8.82E-02	0.135507062	8	4.42E-01
15	1.59E+00	0.799149441	15	6.94E-04
24	2.01E-02	-0.202446533	24	5.80E+01
16	4.91E-10	0.148071899	16	3.79E-01
28	1.14E-11	-0.098515686	28	2.09E+01
2	3.40E-02	0	2	6.46E-01
1	1.35E-01	0.25164592	1	3.54E-01
13	1.04E-02	-0.279233372	13	1.55E+01
17	5.91E-06	2	17	8.50E-09
24	4.11E-01	-0.402287771	24	1.07E+03
4	6.66E-01	-0.588797007	4	6.70E+00
8	1.52E-01	-0.111553581	8	1.90E+00
33	2.03E-03	0.030598992	33	3.15E+00
13	1.07E-01	0.386505892	13	5.01E-02
16	4.85E-01	0.155788732	16	3.50E-01

8	1.36E-10	2	8	2.08E-05
26	1.16E-01	-0.68783239	26	1.66E+05
10	8.77E-01	-0.190394067	10	4.28E+00
2	9.56E-01	0.372850912	2	2.41E-01
48	4.09E+08	-0.557505018	48	7.83E+07
9	1.02E-03	-0.337536268	9	9.30E+00
12	1.21E-01	0.050367768	12	8.68E-01
3	2.30E-01	-0.271828138	3	1.65E+00
33	1.95E-04	0.278170372	33	2.55E-02
20	2.16E-03	-0.280521546	20	7.43E+01
15	1.22E-01	0.382429882	15	3.95E-02
24	3.63E+01	0.082206589	24	9.14E-01
3	1.86E-03	0.148300416	3	4.32E-01
3	2.46E-01	-0.12114128	3	1.02E+00
14	3.19E-02	-0.47185518	14	1.13E+02
7	9.18E-01	0.289731009	7	1.94E-01
8	1.40E-01	-0.032752834	8	1.19E+00
33	6.08E-09	-0.167662728	33	1.49E+02
8	3.79E-06	2	8	3.06E-05
9	7.08E-04	0.265231577	9	1.91E-01
37	2.82E+00	-0.662254512	37	1.25E+07
25	5.37E-08	-0.025462992	25	4.78E+00
5	9.15E-05	0.542894925	5	7.83E-02
16	1.29E-10	0.603311661	16	3.59E-03
17	4.90E-03	2	17	1.37E-07
6	1.05E+00	-0.437173733	6	7.03E+00
11	2.13E-07	0.442171853	11	4.36E-02
71	1.13E+01	-0.471652026	71	1.32E+10
26	7.52E+00	0.247651282	26	7.21E-02
1	1.61E+00	0.053138807	1	5.38E-01
3	4.02E-01	2.14E-05	3	6.93E-01
6	1.77E-02	0.390764816	6	1.30E-01
6	1.06E-02	2	6	4.31E-04
6	2.02E-01	-0.043229458	6	1.05E+00
18	1.35E+00	-0.419470681	18	2.30E+02
38	7.39E-05	0.226548006	38	5.34E-02
7	1.91E-02	-0.451781704	7	1.03E+01
6	2.72E-01	-0.189073742	6	2.13E+00
6	4.54E+00	-1	6	1.46E+02
12	1.88E+01	-0.245350313	12	9.45E+00
18	3.51E+04	1	18	1.45E-05
4	6.20E-01	6.38E-06	4	7.43E-01
4	6.14E-01	-0.080706381	4	1.00E+00
9	1.00E+00	0.865912262	9	3.98E-03
17	1.24E-01	-0.275469735	17	3.61E+01
11	4.69E-01	-0.389669116	11	2.28E+01
19	3.15E+00	0.047790355	19	1.21E+00

76	7.60E+09	-0.491625981	76	1.59E+11
18	9.72E+09	-1	18	4.26E+05
4	2.53E-01	-0.01859635	4	7.97E-01
5	3.23E+00	-1	5	1.26E+02
7	4.76E-02	0.432709613	7	9.02E-02
5	6.12E-02	0.377375846	5	1.59E-01
16	9.56E-01	0.022865478	16	1.37E+00
4	3.91E-01	-0.079397857	4	1.00E+00
6	2.89E+00	-0.174121428	6	1.98E+00
6	3.04E+01	-0.744830833	6	3.09E+01
14	1.33E+07	-0.69579573	14	8.77E+02
7	2.04E-03	-0.509201926	7	1.41E+01
2	9.53E-01	0.184311159	2	3.96E-01
4	2.25E-01	0.076378619	4	5.59E-01
6	1.46E+00	-0.444169946	6	7.27E+00
2	5.04E-01	-0.018930202	2	6.79E-01
1	4.82E-01	-0.028846715	1	6.40E-01
2	2.43E-01	-0.165952369	2	1.00E+00
19	1.94E-01	-0.817121874	19	3.47E+04
25	2.62E+07	-0.778844602	25	4.23E+05
15	2.46E-02	0.159920602	15	3.41E-01
2	3.85E-01	0.219797552	2	3.61E-01
9	2.49E+00	-0.511534835	9	2.85E+01
39	1.50E-02	-0.034368547	39	1.90E+01
2	7.61E-01	-0.167812712	2	1.01E+00
6	2.31E+00	-0.340774126	6	4.42E+00
5	9.95E+00	-0.829874566	5	2.77E+01
14	1.36E-01	0.029755653	14	1.14E+00
22	4.64E-03	-0.364484991	22	3.60E+02
2	3.85E-01	-0.50236688	2	2.44E+00
32	3.37E+03	-0.123192464	32	5.46E+01
32	6.77E+01	-0.055672092	32	1.52E+01
18	1.52E+01	-0.034107823	18	2.92E+00
1	5.43E-01	-0.012274843	1	6.18E-01
11	2.07E+01	-0.464134084	11	4.00E+01
5	1.19E+00	-0.36768684	5	3.84E+00
7	3.33E+00	-0.176525024	7	2.36E+00
12	9.72E+02	-1	12	1.82E+05
2	6.43E-01	-0.039501881	2	7.17E-01
8	4.99E+00	-2	8	6.94E+03
11	1.40E+02	-0.686189508	11	2.13E+02
3	8.62E+00	-0.656578998	3	5.63E+00
14	3.42E+04	-0.71967218	14	1.09E+03
5	6.64E-01	0.502966233	5	9.28E-02
13	1.33E+02	-1	13	1.30E+05
9	1.37E+00	-0.263100666	9	5.75E+00
10	7.25E+02	-0.365213503	10	1.45E+01

3	1.31E+00	-0.220645828	3	1.40E+00
3	6.88E+00	-0.793567977	3	8.72E+00
15	5.62E-02	0.388928047	15	3.71E-02
4	6.65E-01	0.708436027	4	5.28E-02
11	2.94E+02	0.014775675	11	1.09E+00
9	6.20E+00	1	9	1.70E-04
13	2.18E+01	0.451326639	13	2.87E-02
6	3.46E-01	-0.169874027	6	1.94E+00
13	2.88E+00	0.375077346	13	5.53E-02
16	1.97E-01	-0.041949281	16	2.65E+00
7	3.86E-02	0.10369707	7	5.26E-01
5	4.16E+00	-0.771086948	5	2.15E+01
4	1.60E+00	-0.287254276	4	2.17E+00
5	8.40E+02	0.897567913	5	1.72E-02
27	2.30E+02	-0.606094838	27	6.89E+04
7	6.58E+00	-0.286999213	7	4.27E+00
3	6.84E+00	-0.310947084	3	1.87E+00
5	8.95E-02	-0.705663083	5	1.63E+01
5	1.66E+00	-0.042938416	5	9.58E-01
2	5.64E-01	0	2	6.46E-01
23	3.03E-02	-0.477934582	23	2.31E+03
6	1.10E+00	-0.098063774	6	1.37E+00
6	7.52E+01	0.211754653	6	3.08E-01
5	1.48E+00	-0.199963337	5	1.87E+00
8	2.99E+00	-0.120882739	8	2.01E+00
5	6.57E-01	0.091526061	5	5.39E-01
6	7.74E-01	-0.043399592	6	1.05E+00
6	8.37E-01	0.114081617	6	4.94E-01
6	3.29E+01	0.496191962	6	7.83E-02
4	1.37E+00	-0.376604776	4	3.03E+00
32	4.66E+02	-0.026890814	32	8.84E+00
13	1.69E+04	-0.171277352	13	6.12E+00
2	5.50E-01	0.362249469	2	2.47E-01
2	1.19E+00	-0.315738181	2	1.49E+00
2	3.84E-01	0.224258268	2	3.57E-01
27	3.52E+01	-0.242108213	27	1.89E+02
5	7.56E+02	0.142962045	5	4.33E-01
9	4.05E-01	-0.310821563	9	7.83E+00
14	9.01E-01	0.196232786	14	2.49E-01
2	2.04E-01	0.057194379	2	5.55E-01
10	1.05E+02	-0.463474529	10	2.89E+01
8	4.65E+02	-1	8	1.64E+03
8	1.53E-02	-2	8	1.58E+04
12	6.65E-05	0.057972119	12	8.17E-01
2	2.43E-01	-0.066393994	2	7.70E-01
33	6.34E-03	-0.876493694	33	1.45E+08
13	5.63E+00	-0.357266999	13	3.03E+01

35	7.70E-09	0.173778926	35	1.85E-01
10	7.96E+00	-0.144368415	10	3.11E+00
3	7.37E-01	-0.674509142	3	5.96E+00
1	5.72E-01	-0.306809856	1	1.15E+00
1	5.36E-01	-0.02121048	1	6.29E-01
21	4.63E+02	-0.367261947	21	2.85E+02
1	7.30E-01	-0.026803787	1	6.37E-01
12	2.39E-01	-0.299777714	12	1.47E+01
4	2.36E-01	-1	4	3.95E+01
3	5.42E-01	1	3	9.37E-03
26	8.43E-05	0.223784539	26	1.05E-01
6	2.54E-01	-0.699717136	6	2.49E+01
50	4.63E-05	-0.233626801	50	1.53E+04
6	2.36E+00	-0.080395166	6	1.26E+00
12	7.60E+00	-0.998436409	12	4.12E+03
27	1.10E-02	-1	27	9.35E+08
3	3.56E-01	-0.055959788	3	8.28E-01
12	1.16E+01	0.020159777	12	1.11E+00
6	1.80E+02	0.188380113	6	3.45E-01
1	4.64E-01	0.020240021	1	5.77E-01
7	4.76E-01	-0.113583236	7	1.69E+00

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BC_11			BC_07	
polii	gatc.num	FDR	polii	gatc.num
-0.481303649	14	2.50E+01	-0.3037186	14
0.282916855	12	1.22E-02	-0.254243066	12
-0.600986797	26	4.32E+03	-0.010757966	26
0.394605888	17	8.28E-04	1	17
0.025239852	7	2.09E-01	-1	7
-0.314579724	6	1.43E+00	-0.433784546	6
-0.236302558	13	1.69E+00	-0.183122297	13
-0.348642177	27	4.73E+01	-0.456798055	27
-0.544587337	20	2.73E+02	-0.022716286	20
-0.118294578	30	5.84E-01	-0.289057371	30
-0.46963204	8	5.33E+00	-0.397019898	8
0.331257572	9	1.84E-02	0.05401945	9
-0.818828487	12	3.58E+02	-0.751308853	12
-0.718764965	4	5.72E+00	-0.983377903	4
-0.211803281	47	1.34E+01	-0.039161191	47
-0.718898622	6	1.28E+01	0.20871037	6
1	8	1.62E-04	0.207916559	8
0.646307396	5	1.31E-02	0.421740938	5
0	3	3.24E-01	-0.004276424	3
-0.480838329	7	4.50E+00	-0.48050622	7
-0.174042043	9	7.64E-01	-0.685322078	9
-0.38209224	19	2.13E+01	-0.39361551	19
-0.662396824	10	4.02E+01	-0.153310727	10
-0.355111144	25	3.87E+01	-0.678614837	25
0.398947523	5	4.23E-02	-0.527781031	5
-0.637075638	25	5.96E+03	-0.627028515	25
-0.294465991	16	4.37E+00	-0.189727782	16
-0.337710415	10	2.97E+00	-0.307646155	10
-1	10	2.06E+03	-0.240350518	10
0.500480599	6	1.75E-02	-0.500882867	6
0.189298902	73	2.01E-07	-0.030189682	73
-0.374267974	7	2.36E+00	-0.000314875	7
-1	10	6.14E+02	-0.022856861	10
-0.0108265	5	2.96E-01	-0.176581764	5
0	1	3.73E-01	0	1
-0.123041411	15	5.57E-01	-0.432315674	15
-0.076790898	15	3.30E-01	0.084112491	15
-0.063921868	1	4.28E-01	-0.003055522	1
-0.073082077	11	3.47E-01	-0.024358513	11
-0.011006515	2	3.59E-01	-0.004592927	2
-0.996239665	35	1.23E+09	0.292693783	35

-0.073011701	12	3.39E-01	-0.004912187	12
0.901922892	16	2.67E-06	0.688593519	16
-1	35	1.10E+10	0.010084639	35
-0.076786881	16	3.23E-01	-0.117167633	16
0.039459123	22	4.51E-02	-0.053037257	22
-0.329224614	17	7.65E+00	0.01670769	17
-0.247723248	3	7.59E-01	0.12069498	3
0.120517605	13	4.79E-02	-0.074358709	13
-0.109387689	12	4.76E-01	-0.390879371	12
0.006221697	11	1.74E-01	0.038234113	11
-0.027164038	6	3.03E-01	0.178868367	6
0.600789548	18	3.86E-05	1	18
0.043514299	12	1.14E-01	-0.115263325	12
-0.142130816	22	8.08E-01	0.145960595	22
0.028036331	11	1.44E-01	0.099891452	11
0.001724206	8	2.25E-01	-0.023813132	8
-0.670199734	9	2.96E+01	-0.466696316	9
-0.2764882	43	6.95E+01	0.771620591	43
0.331382669	3	1.04E-01	0.597177217	3
-0.032608094	9	2.69E-01	0.082647003	9
-0.023427129	4	3.32E-01	-0.02666631	4
-0.183364765	7	7.41E-01	-0.610290209	7
-0.734730143	11	1.08E+02	-0.32532852	11
0	1	3.73E-01	0	1
2	33	9.82E-18	-0.423214981	33
-0.04666591	18	2.08E-01	-0.386840268	18
-0.190940679	6	7.35E-01	-0.032813562	6
-1	12	1.57E+05	-1	12
-0.277000802	6	1.17E+00	-0.337619202	6
0.3598627	32	1.29E-05	0.060709837	32
-0.624288987	5	5.45E+00	-0.351041848	5
0.271276272	6	6.05E-02	-0.288317183	6
-1	11	7.01E+03	-0.629786888	11
0.218260074	1	2.35E-01	0.102476677	1
2	5	2.23E-04	0.276310195	5
0.17259925	21	6.53E-03	0.400568846	21
0.510347483	33	2.94E-07	-0.052070613	33
-0.183826471	7	7.43E-01	-0.036358596	7
-0.857785704	14	1.38E+03	-2	14
-0.019168509	4	3.26E-01	-0.108216632	4
-0.976801022	8	1.61E+02	-0.23156693	8
-0.680911516	5	7.13E+00	-0.084725271	5
-1	3	1.60E+01	-0.995417825	3
-0.309776167	63	2.62E+03	-0.504487077	63
-0.082405107	31	2.69E-01	-0.206276317	31
-0.131863488	15	6.15E-01	-0.615407019	15
-0.613265366	3	2.67E+00	-0.269729919	3

0.091566321	10	9.46E-02	0.057822106	10
0.025818355	6	2.28E-01	0.300219591	6
-0.321684496	44	3.05E+02	-0.537900766	44
-0.055193295	3	3.92E-01	-0.055799884	3
-0.189752473	7	7.71E-01	-0.144296792	7
0.07392921	12	8.59E-02	0.022888531	12
-0.047853922	9	3.01E-01	0.026786132	9
0.039920616	4	2.56E-01	-0.025324512	4
-0.399365483	8	3.32E+00	0.13101827	8
-0.196232182	11	1.01E+00	-0.078521706	11
-0.202323605	11	1.06E+00	0.142974245	11
-0.022270435	7	2.79E-01	-0.040268621	7
-0.002155357	10	2.01E-01	0.027906794	10
-0.072962764	47	1.52E-01	0.182973767	47
0	4	3.02E-01	-0.086426607	4
-0.172292523	33	2.07E+00	-0.080400415	33
-0.705624961	12	1.24E+02	-0.660885109	12
-0.551635697	4	2.89E+00	-0.182121955	4
-0.825136085	11	2.37E+02	-0.376983507	11
-0.282659117	7	1.35E+00	-0.22505827	7
-0.138719346	44	1.19E+00	-0.673907538	44
-0.005691768	5	2.89E-01	-0.047875779	5
-0.018989447	1	3.89E-01	-0.023657493	1
-0.325369154	15	5.48E+00	-0.041499698	15
-0.489287126	18	7.40E+01	-0.154940724	18
-0.284432811	100	6.41E+04	0.897790638	100
-1	22	2.14E+07	-0.056018272	22
-0.527259976	19	1.61E+02	0.749150624	19
-0.087097279	33	2.90E-01	0.031542778	33
-0.063525478	42	1.29E-01	1	42
-0.634975441	26	8.10E+03	0.202134833	26
-0.177355125	15	1.03E+00	-0.045036852	15
0	23	7.86E-02	0.024616508	23
-0.171506575	12	8.50E-01	-0.189951456	12
-0.43309546	69	1.84E+06	-0.395258127	69
-0.058872115	6	3.60E-01	-0.012198761	6
0.706160597	18	9.54E-06	0.350539492	18
0.216208975	34	2.12E-04	2	34
0.085059398	16	4.67E-02	0.12133302	16
0.500007826	16	3.27E-04	0.081110797	16
-1	13	1.66E+04	-0.622122028	13
-0.442172143	29	4.40E+02	1	29
-0.002009883	5	2.84E-01	0.061015715	5
0.251684774	8	4.19E-02	-0.135682912	8
2	3	1.16E-04	-0.435491995	3
3	7	4.80E-09	-0.100327258	7
-0.033360137	2	3.82E-01	-0.320830476	2

0	10	1.97E-01	-0.001346236	10
-0.098198451	12	4.29E-01	-0.390903107	12
-0.362105523	5	1.57E+00	-0.02883178	5
-0.123099521	13	5.46E-01	-0.086712196	13
0.919811356	2	2.69E-02	0.410961005	2
0.288177234	15	5.33E-03	2	15
0.003623631	40	2.13E-02	0.537635032	40
-0.063286342	19	2.52E-01	2	19
-0.217684529	35	6.83E+00	2	35
-0.218298503	25	3.37E+00	0.102228624	25
-0.510416405	6	4.13E+00	0.208945229	6
-0.415674149	11	6.79E+00	-0.048243998	11
-0.497588387	12	1.78E+01	-0.515711041	12
-0.109672787	7	4.74E-01	-0.11263977	7
-0.239944501	8	1.14E+00	0.03144508	8
-0.232082514	42	1.72E+01	-0.067075276	42
0.12022567	6	1.37E-01	0.699355934	6
-0.542809375	4	2.78E+00	0.740977623	4
0.027775106	15	1.01E-01	0.197117179	15
-0.244045883	26	5.83E+00	-0.091722331	26
-0.178688994	42	3.65E+00	0.228379603	42
-0.032625632	33	8.23E-02	-0.063834473	33
-0.115194141	119	8.31E-01	-0.176041625	119
-0.12886874	4	5.11E-01	-0.062068904	4
-0.90926327	5	2.11E+01	-0.428990543	5
0.327238973	26	1.49E-04	0.143742481	26
-0.833410686	13	6.60E+02	-1	13
-0.708309525	31	2.25E+05	-0.249763741	31
-2	11	1.61E+06	-0.669685811	11
-0.577368425	14	6.95E+01	-0.537849767	14
-0.061107529	2	4.12E-01	-0.08222855	2
0.270298818	77	1.37E-09	-0.069252173	77
-0.755339012	7	2.37E+01	-0.584733631	7
0.368890697	5	4.88E-02	-0.303815586	5
0.082439322	1	3.13E-01	-0.035510987	1
-0.024637881	1	3.93E-01	0	1
0.946773408	2	2.49E-02	0.146911796	2
0.791867554	15	1.80E-05	0.313134915	15
-0.205395154	32	4.18E+00	0.128824064	32
-0.02521057	11	2.29E-01	-0.048429614	11
-0.01974385	1	3.89E-01	-0.028654606	1
0.008352188	6	2.50E-01	0.00108502	6
0.057668141	10	1.24E-01	0.045385501	10
-0.080383934	13	3.56E-01	-0.017359846	13
-0.035489079	23	1.41E-01	-0.009259539	23
0.008839942	5	2.70E-01	0.024177507	5
0.110826807	13	5.27E-02	-0.010007474	13

0	7	2.44E-01	0.051035929	7
0	2	3.48E-01	0.038912642	2
0.148737806	46	1.40E-04	0.634146725	46
-0.084846799	6	4.14E-01	1	6
-0.287448919	11	2.23E+00	-0.038492824	11
-1	28	1.17E+08	-0.811399422	28
-0.202935017	15	1.37E+00	0.543982614	15
0.081359278	69	6.78E-05	-0.033611555	69
-0.078829147	34	2.35E-01	-0.024398067	34
0.058984484	45	2.67E-03	0.343462574	45
-0.098238808	23	4.00E-01	0.028567378	23
-0.139639901	26	8.43E-01	0.877409901	26
-0.455017416	7	3.85E+00	2	7
-0.023640902	4	3.32E-01	0.05157747	4
-0.006367317	3	3.31E-01	-0.029045303	3
-0.063081725	21	2.37E-01	-0.055805733	21
-0.211605499	27	3.42E+00	0.087673492	27
-0.016553133	8	2.54E-01	-0.027350067	8
-0.120694368	17	5.51E-01	-0.240644528	17
-0.672909998	21	2.57E+03	0.413497011	21
-1	12	2.28E+03	-1	12
-0.461865525	6	3.18E+00	-0.242440782	6
0.122491869	31	3.09E-03	-0.240147214	31
-0.445502077	20	6.44E+01	-0.554294105	20
-0.541218206	5	3.67E+00	-0.323183643	5
-0.580963799	8	1.12E+01	0.344509334	8
-0.411448015	16	1.77E+01	0.039334499	16
0.063783526	9	1.32E-01	-0.350420858	9
-0.071810827	16	3.05E-01	-0.199963299	16
-0.437240123	10	6.60E+00	0.581155144	10
-2	2	2.53E+01	-0.423796972	2
0.105057538	12	6.42E-02	0.051899061	12
-0.189199346	12	1.00E+00	0.130997129	12
-0.430556539	76	7.18E+06	1	76
-0.11281593	17	4.99E-01	0.028891051	17
0	3	3.24E-01	-0.000851516	3
-0.014338743	12	1.96E-01	7.65E-05	12
-0.261616568	56	1.65E+02	-0.066796183	56
-0.499025474	11	1.40E+01	0.00203779	11
-0.221368878	17	1.96E+00	-0.437009088	17
0.17040982	6	1.04E-01	-0.221444393	6
0.000194701	1	3.73E-01	-0.014956524	1
-0.959419969	21	2.02E+05	-0.269533104	21
-0.050173505	13	2.63E-01	0.225873494	13
-0.270846456	9	1.56E+00	0.167679264	9
-0.017975643	4	3.25E-01	0.006226774	4
-0.092555942	5	4.36E-01	-0.293421412	5

-0.021140259	16	1.66E-01	-0.572272007	16
-0.429451698	15	1.78E+01	-0.266616776	15
2	3	1.69E-03	0.141581237	3
2	9	3.53E-07	1	9
0.944125428	2	2.51E-02	1	2
-0.32041986	23	1.58E+01	2	23
-0.63505112	1	1.44E+00	1	1
0.604562844	6	9.98E-03	0.14037998	6
-0.019774334	2	3.67E-01	-0.667296325	2
-0.360676102	20	1.87E+01	-0.300723449	20
-0.773823576	4	7.17E+00	-0.867088347	4
-0.110110944	10	4.78E-01	0.249371858	10
0.093505175	38	2.31E-03	0.809336708	38
-0.227254597	1	6.05E-01	0.217611154	1
0.131257606	32	2.18E-03	0.106103339	32
0.509627011	62	2.38E-12	-0.101452705	62
1	7	2.65E-04	-0.122994028	7
-0.072691202	23	2.62E-01	-0.078893237	23
-0.204192563	31	3.82E+00	-0.127037243	31
-0.204690139	10	1.02E+00	-0.017988443	10
-0.018681898	6	2.90E-01	-0.04008793	6
0.031062538	6	2.21E-01	0	6
-0.093876665	16	3.97E-01	-0.048711253	16
0.170501061	15	2.02E-02	-0.449208106	15
-0.058239104	65	5.24E-02	0.020060657	65
0.629481174	27	3.41E-07	0.802369558	27
-0.581782681	35	4.95E+04	-0.054108126	35
-0.890239776	6	3.22E+01	-0.557657744	6
-0.684637827	10	4.81E+01	-0.515019922	10
-1	2	2.18E+01	-0.09258877	2
-0.446477561	5	2.34E+00	-0.244621824	5
-0.0732154	13	3.32E-01	0.073439196	13
2	4	1.01E-04	1	4
1	4	6.77E-04	1	4
0.807218396	5	6.08E-03	-0.260282801	5
0.02691497	13	1.22E-01	0.015725399	13
0.412765679	22	1.20E-04	-0.138779648	22
-0.675929787	29	5.28E+04	-0.532545395	29
0.195173548	58	2.97E-06	-0.15067852	58
0	3	3.24E-01	-3.18E-05	3
0.83454787	23	7.91E-08	-0.369853163	23
-0.061142835	55	8.09E-02	-0.034576796	55
-0.292594391	6	1.27E+00	-0.574589588	6
-0.101169865	79	3.26E-01	-0.157167682	79
0	6	2.62E-01	-0.00025453	6
0	1	3.73E-01	-0.004300291	1
-0.150639109	26	1.03E+00	-0.132099682	26

-0.307263441	7	1.57E+00	-0.207221012	7
-0.46879971	19	7.14E+01	-0.837508402	19
-0.123819641	12	5.44E-01	-0.243582277	12
0.27117466	8	3.68E-02	0.041022173	8
-0.048789174	50	6.18E-02	0.126963542	50
-0.268169298	3	8.14E-01	0.127230264	3
-0.127730099	13	5.72E-01	0.009209715	13
0.010266609	25	5.68E-02	1	25
-0.224899457	27	4.41E+00	-0.214692077	27
-0.589746705	18	2.81E+02	-0.476110634	18
-0.287399278	11	2.23E+00	-0.384641714	11
-0.304335477	8	1.76E+00	-1	8
-0.693726119	12	1.11E+02	-0.545370174	12
0.356780329	2	1.29E-01	-0.473770742	2
0.279715331	16	4.55E-03	0.045839208	16
-0.520968296	12	2.22E+01	-1	12
0.062548163	24	2.50E-02	-0.827072134	24
-0.952094927	3	8.55E+00	-0.575032014	3
-0.87472396	24	2.51E+05	-1	24
-0.876305816	11	3.70E+02	-0.271907639	11
-0.256169687	13	2.06E+00	-0.115814081	13
-0.089123949	8	4.14E-01	-0.045707487	8
-0.015409225	18	1.37E-01	-0.262948691	18
-0.290296705	15	3.69E+00	-0.366047635	15
-0.076855018	35	2.20E-01	-0.198981244	35
0.600374797	19	2.44E-05	0.351285755	19
-0.019989793	34	5.80E-02	0.07199639	34
0.057660762	26	2.19E-02	-0.085746523	26
-0.053537508	15	2.54E-01	0.67867579	15
-0.048292924	11	2.80E-01	0.413152267	11
-0.445999816	5	2.34E+00	-0.074314084	5
-0.026448502	8	2.72E-01	-0.078036247	8
-0.243914099	9	1.28E+00	-0.194885508	9
-0.879365129	6	3.04E+01	-0.171069583	6
0.067820197	6	1.82E-01	0.307785922	6
0	2	3.48E-01	0.163816958	2
0	4	3.02E-01	-0.057828526	4
-0.30172374	29	2.48E+01	-0.164742043	29
0	5	2.81E-01	-0.02164339	5
-0.084300609	35	2.63E-01	-0.010495641	35
0.620189841	4	2.38E-02	0.25019086	4
0.039368111	17	7.32E-02	0.205148926	17
-0.111471335	16	4.89E-01	0.142391714	16
-0.084167632	14	3.64E-01	-0.108823018	14
-0.061936135	10	3.24E-01	0.085553414	10
-1	10	1.28E+03	-0.987609298	10
-0.348824331	5	1.47E+00	-0.37266663	5

-1	6	2.20E+02	-0.771373975	6
-0.401798088	6	2.30E+00	-0.179044409	6
0	4	3.02E-01	-0.124751512	4
-0.42638704	13	1.13E+01	-0.919377091	13
-0.180009506	3	6.01E-01	-0.041210777	3
-0.197625626	6	7.62E-01	-0.457921509	6
-0.776160231	7	2.69E+01	-0.451775721	7
-0.915615589	12	8.84E+02	0.40734208	12
0.081580164	8	1.31E-01	0.144650896	8
-0.570347705	23	9.87E+02	-0.31977367	23
-1	16	6.69E+04	-1	16
-0.291214788	29	2.00E+01	0.682845918	29
-0.433472483	7	3.38E+00	0.16515969	7
-0.994820545	9	3.24E+02	-0.015236608	9
-0.747333116	8	3.44E+01	0.32391024	8
0.281719859	28	2.07E-04	0.137395465	28
-1	6	2.47E+02	-2	6
0.378744623	2	1.21E-01	0.077509741	2
-0.480470921	9	7.31E+00	-1	9
-0.833591866	33	8.94E+06	-0.354095771	33
-2	5	2.45E+03	-1	5
-0.026019125	13	2.07E-01	0.699484888	13
-0.597397986	35	7.25E+04	1	35
2	11	5.02E-09	-0.145648013	11
-0.981858313	6	5.28E+01	-0.439093495	6
-0.722176473	7	1.94E+01	-0.57198637	7
-0.666571618	11	5.99E+01	0.033624372	11
-1	10	2.20E+04	-1	10
-0.207410347	26	2.96E+00	0.0978204	26
0.115734541	9	9.03E-02	-0.085398485	9
-0.083713395	15	3.57E-01	-0.014730307	15
-0.359578322	4	1.32E+00	-0.444793228	4
-0.197286817	9	9.07E-01	-0.41944976	9
-0.964565972	14	4.29E+03	-0.094357847	14
-0.19367089	34	3.59E+00	1	34
-0.390337423	12	6.56E+00	-0.300413886	12
-0.128805919	6	5.25E-01	0	6
-0.211289648	45	1.15E+01	-0.037168047	45
-0.590684117	6	6.38E+00	0.018422599	6
-0.318819445	6	1.47E+00	0.183087799	6
-0.384979808	18	1.85E+01	-0.788042711	18
-0.353792333	6	1.77E+00	-0.476374778	6
-0.090299621	1	4.52E-01	-0.226700054	1
-0.49613945	8	6.36E+00	-0.283217927	8
0.30158536	9	2.29E-02	-0.270929421	9
0.318918055	5	6.18E-02	-0.421634936	5
-0.359487506	10	3.53E+00	-0.781433399	10

0.326617128	41	2.10E-06	-0.512409522	41
-0.149287497	3	5.41E-01	-0.09229731	3
-0.546772285	6	5.03E+00	-0.055216187	6
-0.378673618	4	1.42E+00	0.163796221	4
-0.062930091	21	2.36E-01	0.632798176	21
-0.040832442	1	4.07E-01	0.798290231	1
-0.548184551	8	9.03E+00	0.164901202	8
-0.140969379	4	5.37E-01	-0.025369563	4
-0.90758637	11	4.86E+02	-0.993072548	11
-0.256407684	2	7.10E-01	-0.124242672	2
0.000553723	1	3.73E-01	0.009282875	1
0.161347228	8	7.69E-02	0.059626603	8
0.389646102	12	4.51E-03	0.230828753	12
3	8	8.05E-09	2	8
2	9	1.16E-06	1	9
-0.504503535	6	4.00E+00	0.281557613	6
-0.009557452	5	2.94E-01	-0.011825814	5
-0.237535983	32	8.60E+00	-0.10557046	32
-0.318099683	10	2.54E+00	-0.551197111	10
-0.396925793	5	1.85E+00	0.162271418	5
0.069605828	22	2.79E-02	0.219379355	22
-0.030977262	7	2.94E-01	0.056592065	7
-1	13	4.85E+03	-0.376843639	13
-0.210385542	53	1.91E+01	-0.287849363	53
-0.560034697	15	7.78E+01	-0.435712219	15
0.400692725	12	4.06E-03	-0.152580052	12
2	6	4.12E-05	0.382234426	6
0.476238093	2	9.24E-02	-0.039675452	2
-0.159678929	31	1.45E+00	-0.029094883	31
-0.925367445	3	7.80E+00	-0.399074054	3
-0.08049789	4	4.20E-01	-0.032352036	4
-0.079225015	31	2.51E-01	-0.246240259	31
-0.104345917	4	4.63E-01	0	4
-0.236485761	7	1.02E+00	-0.222239191	7
-0.35080603	26	4.21E+01	-0.073377232	26
-0.123252853	10	5.31E-01	-0.157133762	10
-0.26206342	5	9.76E-01	-0.546418348	5
-0.230136884	4	7.74E-01	0.362017904	4
0.055710499	37	6.96E-03	0.291677787	37
-0.035490379	9	2.75E-01	1	9
-0.091217767	6	4.29E-01	-0.191173557	6
-0.130935728	10	5.64E-01	-0.197671503	10
-0.083239249	9	3.91E-01	0.022188142	9
-0.295136448	12	2.69E+00	-0.240256063	12
-0.430591671	11	7.73E+00	-0.197453071	11
-0.634732191	10	3.22E+01	-0.544828685	10
-0.262318655	37	2.49E+01	-0.139038743	37

-0.079024191	11	3.65E-01	0.036416416	11
-0.01090857	21	1.07E-01	-0.043730531	21
-0.235976705	2	6.70E-01	-0.10300041	2
0.065155334	24	2.39E-02	0.388824414	24
-0.019439871	17	1.54E-01	0.244817879	17
0.051456135	23	3.36E-02	-0.153785426	23
-0.724487697	6	1.31E+01	-2	6
0.040238962	7	1.91E-01	-0.060249995	7
0	5	2.81E-01	-0.00652951	5
0	6	2.62E-01	-0.012225657	6
0	5	2.81E-01	0	5
-0.509635451	3	1.87E+00	-0.24329252	3
-0.003342966	20	1.02E-01	-0.079753851	20
-0.05344735	12	2.82E-01	-0.364122584	12
-0.088960352	51	2.42E-01	-0.106292044	51
-0.786561227	8	4.47E+01	-0.811923173	8
-0.90883716	13	1.40E+03	-1	13
0.148243548	2	2.30E-01	0.048777126	2
-0.045226533	10	2.84E-01	-0.06731308	10
-0.100139239	2	4.59E-01	0	2
-0.158137077	4	5.77E-01	0.146515127	4
-0.100323046	29	4.01E-01	0.046794258	29
-0.075068839	14	3.31E-01	0.043643826	14
-0.168440323	8	7.05E-01	0.024885227	8
-0.664322427	13	1.22E+02	-0.578424477	13
-0.110430283	28	4.93E-01	-0.052879621	28
-0.025622247	3	3.54E-01	-0.011501091	3
-0.452025861	15	2.29E+01	-0.619824489	15
-0.091195581	7	4.24E-01	-0.006839749	7
0.152021229	56	2.29E-05	-0.297201208	56
0.828447246	13	4.05E-05	-0.742337728	13
-0.306578174	18	6.55E+00	-0.322026513	18
0.02627895	5	2.48E-01	-0.00684471	5
0.671155903	13	1.95E-04	0.34546243	13
-0.024618848	16	1.73E-01	-0.090041661	16
-0.39583885	21	3.77E+01	-0.523891423	21
0	4	3.02E-01	-0.282432472	4
-0.029450306	1	3.97E-01	0.085589929	1
-0.249299351	27	7.05E+00	2	27
-0.525245841	2	1.50E+00	2	2
0.137439208	6	1.25E-01	0.26823109	6
-0.09610117	14	4.14E-01	-0.008317521	14
0.04766565	2	3.05E-01	-0.084654512	2
-0.391647602	29	1.56E+02	-0.120899576	29
-1	33	4.79E+11	-0.686555461	33
0	5	2.81E-01	0	5
-1	14	8.62E+03	-0.616657964	14

2	5	1.57E-04	-0.630425995	5
-0.257605723	5	9.56E-01	-0.357565623	5
-0.616586476	76	9.99E+10	-0.590710708	76
-0.178898501	7	7.22E-01	-0.142333114	7
-0.20847528	8	9.22E-01	-0.681180709	8
-0.223878994	8	1.02E+00	0.014097215	8
-0.70939049	36	1.66E+06	-0.535507142	36
-0.460819339	33	1.63E+03	-0.50226349	33
-0.995774747	20	1.96E+05	-1	20
-0.557755174	42	2.17E+05	-0.467730535	42
-0.247940256	12	1.73E+00	-0.166027242	12
-0.456805092	30	7.47E+02	-0.231619884	30
-0.613296349	7	1.00E+01	-0.171398093	7
-0.505949468	4	2.39E+00	0.215626447	4
-0.006125048	5	2.89E-01	-0.062890333	5
-0.169387752	41	2.68E+00	-0.464937879	41
-0.164531231	15	8.90E-01	0.063298295	15
-0.149179822	7	6.03E-01	0.320392914	7
-0.001763318	14	1.52E-01	-0.017023178	14
-0.391775009	21	3.54E+01	-0.320123526	21
-0.763784581	3	4.48E+00	-0.632052357	3
0.368052522	16	1.58E-03	-0.189756076	16
0.144244649	11	5.26E-02	-0.042135589	11
-0.224753006	13	1.51E+00	0.153922934	13
-0.037384731	46	5.03E-02	-0.436401527	46
-0.023071061	7	2.81E-01	-0.213670907	7
0.077374475	8	1.35E-01	-0.49464798	8
-0.17343564	92	2.67E+01	-0.06791017	92
-0.782103555	8	4.34E+01	-0.58217584	8
-0.490928579	5	2.89E+00	-0.187935153	5
0	1	3.73E-01	-0.007364098	1
-0.714736229	9	4.11E+01	-0.418071821	9
0.295039564	10	1.85E-02	-0.136148033	10
0	12	1.71E-01	-0.012485341	12
-0.931056887	10	3.47E+02	-1	10
0.07775052	5	1.94E-01	-0.167103309	5
-0.497885216	10	1.07E+01	2	10
-0.389900982	16	1.37E+01	0.244261786	16
0.031786622	3	2.90E-01	-0.015221643	3
-0.703196386	5	7.93E+00	0.042734911	5
-0.443363899	14	1.67E+01	0.928661603	14
-0.001765809	2	3.49E-01	0.04878598	2
-0.261927343	4	8.82E-01	0.057875828	4
0.154820973	16	2.03E-02	-0.107790732	16
0.466481741	16	4.88E-04	-0.936779235	16
2	4	4.42E-04	-1	4
0.930839047	6	1.71E-03	0.373771054	6

-0.538333388	21	3.31E+02	-0.002036755	21
-0.611176281	18	3.73E+02	-0.49256028	18
-0.528984818	16	7.21E+01	-0.633516792	16
0.078028884	4	2.19E-01	-0.107542562	4
-0.52799911	9	1.04E+01	0.441488388	9
-1	12	8.67E+03	0.244773752	12
0.091488241	38	2.43E-03	2	38
-1	21	2.48E+06	-0.700705908	21
0.483854972	9	5.99E-03	0.12344679	9
0.078392729	23	2.15E-02	1	23
-2	8	3.60E+04	-0.072073341	8
-1	43	7.27E+13	-1	43
-0.749802822	13	2.86E+02	0.366932615	13
-0.628843854	13	8.55E+01	0.375650178	13
-0.668519289	14	1.84E+02	0.633801736	14
-0.052068935	2	4.02E-01	0.533137778	2
-0.347874542	12	4.41E+00	0.462156155	12
-0.232465141	2	6.64E-01	0.51247286	2
0.541432165	9	3.92E-03	0.77869819	9
-3	15	6.57E+13	-0.07974801	15
-0.201353856	1	5.73E-01	0.041922654	1
-0.242169467	4	8.13E-01	0.235801526	4
0.427185236	4	5.25E-02	0.450739546	4
0.336569178	18	1.29E-03	-0.544518226	18
-0.248729774	10	1.45E+00	0.01234774	10
-0.780029517	4	7.35E+00	-0.118540278	4
0.050615461	11	1.18E-01	0.572907842	11
-0.064630917	52	1.00E-01	-0.010750376	52
-0.555139121	15	7.36E+01	-0.046860657	15
-0.411022709	14	1.18E+01	2	14
0.373253329	2	1.23E-01	0.869516431	2
0.242913178	5	8.87E-02	1	5
0.530445236	13	7.96E-04	0.4010933	13
-0.36188591	6	1.85E+00	-0.273502734	6
-2	10	1.04E+06	-2	10
0.609484171	6	9.72E-03	-0.995344458	6
-2	3	8.64E+02	-2	3
-1	17	1.11E+05	-0.823072672	17
0.187734467	7	7.82E-02	-0.223373829	7
0.358277828	14	3.28E-03	-0.304281845	14
0.635205504	9	1.96E-03	0.688162363	9
0.092851174	6	1.59E-01	0.527610754	6
-0.326042891	5	1.32E+00	-0.312653516	5
0.112433883	10	8.00E-02	-0.184602279	10
-2	4	1.58E+02	-0.065291511	4
-0.328229225	24	2.07E+01	0.235888835	24
-0.302741155	33	4.22E+01	-0.470050666	33

-0.126792004	1	4.89E-01	0.004284881	1
-0.975281966	3	9.26E+00	-0.19371535	3
-0.928744749	6	3.96E+01	-0.513494918	6
-1	11	6.98E+03	-0.880512915	11
-2	12	4.57E+06	-2	12
-2	11	2.94E+07	-1	11
-0.635627528	4	4.07E+00	-0.921356813	4
-0.3971159	11	5.78E+00	0.38555614	11
-1	5	4.09E+01	0.465696777	5
0.07002808	4	2.27E-01	0.595549125	4
-0.047847066	4	3.67E-01	0.058320605	4
-0.461702784	9	6.37E+00	-0.224575736	9
0.015403544	3	3.07E-01	-0.041505995	3
-0.50659925	17	7.17E+01	0.41731465	17
-0.122844162	7	5.14E-01	0.191132209	7
-0.131745307	4	5.18E-01	-0.300930778	4
-1	14	1.85E+04	-0.588749962	14
-0.814561746	105	1.74E+21	0.490283897	105
-0.377928746	6	2.02E+00	-0.235643349	6
-0.011141276	7	2.61E-01	-0.017144331	7
0	3	3.24E-01	0.020445281	3
0	8	2.27E-01	0	8
-0.405599601	7	2.85E+00	-0.545316715	7
0.073643438	2	2.83E-01	-0.122404146	2
0	8	2.27E-01	0	8
-1	11	7.22E+03	-0.542881365	11
0	4	3.02E-01	0	4
-0.842633869	21	3.41E+04	-0.813241486	21
-2	5	4.15E+03	-3	5
0.363696495	6	3.67E-02	-2	6
-1	108	4.51E+30	0.218656216	108
-3	2	7.85E+02	1	2
-1	203	1.51E+74	-2	203
0.072659165	4	2.24E-01	-0.854237856	4
-0.549558318	13	3.87E+01	-0.747787979	13
0.635845947	10	1.20E-03	-0.189951929	10
-0.738759794	10	7.42E+01	-0.254430415	10
-0.228894346	8	1.06E+00	-0.929337967	8
-0.937333501	5	2.41E+01	-0.475038855	5
-0.06566332	2	4.17E-01	-0.000112131	2
-1	11	1.99E+03	-0.020605467	11
-0.470553667	14	2.23E+01	-0.403120396	14
-0.241876819	10	1.38E+00	0.353407538	10
0.208006525	5	1.05E-01	0.543703596	5
-0.01105379	10	2.16E-01	-0.099907886	10
0.083958799	14	6.08E-02	-0.074948799	14
-0.646208511	7	1.23E+01	0.117685284	7

-0.811966832	7	3.34E+01	-0.905655469	7
-0.433583698	2	1.16E+00	-0.320951103	2
-1	1	5.73E+00	-0.456809735	1
-0.436744642	3	1.45E+00	-0.026964132	3
0	2	3.48E-01	-0.136206993	2
0.374441749	5	4.75E-02	0.125586318	5
-0.03886549	10	2.70E-01	-0.544528715	10
0.675863606	6	6.79E-03	-0.088870205	6
0.91576887	12	3.31E-05	-0.407969084	12
0.723965507	8	1.76E-03	-0.226713727	8
-0.600786485	14	8.92E+01	-0.399646083	14
-0.094614227	5	4.41E-01	0.959685534	5
0.386793315	9	1.22E-02	0.072962777	9
1	9	8.16E-05	0.493660422	9
0.211020654	4	1.27E-01	-0.094584443	4
-0.010552405	12	1.89E-01	0.037268514	12
-1	16	4.28E+04	-0.810157542	16
-0.141894725	35	1.07E+00	-0.67107069	35
-0.699932494	7	1.70E+01	-0.344476731	7
-0.099803044	12	4.35E-01	0.01971628	12
-0.011617935	2	3.59E-01	-0.007849952	2
-0.333616563	20	1.26E+01	-0.184486924	20
0.030438792	3	2.92E-01	-0.139517251	3
0.329626897	10	1.40E-02	-0.439377765	10
-0.741303364	13	2.63E+02	-0.431626565	13
-0.303620056	3	9.20E-01	0.023781527	3
-0.732237788	29	1.67E+05	0.312627659	29
-1	14	4.73E+05	-0.8565737	14
-0.193488785	15	1.23E+00	-0.133976232	15
-1	13	6.47E+03	-0.222290871	13
-0.647815054	10	3.58E+01	-0.461729747	10
-0.393306592	11	5.59E+00	0.170240768	11
-0.357820936	7	2.13E+00	0.869705435	7
0.355688888	38	2.29E-06	1	38
0.230022051	9	3.89E-02	0.154630846	9
-0.573336085	3	2.33E+00	0.308351623	3
-0.327738997	10	2.74E+00	-0.352907773	10
-0.728527253	15	5.22E+02	-0.907151324	15
0	2	3.48E-01	-0.025826826	2
-0.014068101	6	2.83E-01	-0.860746854	6
-0.989375031	6	5.50E+01	-1	6
-0.652593436	14	1.55E+02	0.558858361	14
-0.641972176	18	5.61E+02	-0.018340979	18
-0.354869823	1	7.94E-01	-0.077297817	1
0.210985778	212	1.65E-20	-0.119350583	212
0.08554035	11	8.75E-02	-0.104529476	11
0	2	3.48E-01	-0.008463415	2

-0.736373125	7	2.12E+01	-0.371239662	7
-0.649135624	15	2.13E+02	0.042859743	15
0.854855253	6	2.58E-03	0.412898909	6
0.504401916	5	2.56E-02	0.014258014	5
-1	30	2.66E+08	-0.525625173	30
-0.550563401	9	1.23E+01	-0.125615936	9
-1	13	5.04E+05	-1	13
0.118539627	98	1.61E-07	0.394923315	98
-0.536412424	5	3.59E+00	-0.040872536	5
-0.104106384	28	4.35E-01	0.343446883	28
-0.084423192	2	4.40E-01	0.532250121	2
-0.717936854	3	3.82E+00	0.029619441	3
-0.55403356	46	6.27E+05	-0.734123706	46
-0.998555611	6	5.78E+01	-1	6
-1	8	2.23E+03	-0.364026246	8
-0.338911083	7	1.90E+00	-1	7
-1	8	3.47E+02	-0.903196909	8
0.10032131	18	2.96E-02	-0.075793758	18
-0.667017006	49	6.70E+07	-0.276615866	49
-0.92488634	20	6.99E+04	-0.396467419	20
0	2	3.48E-01	-0.016256371	2
-0.290822595	79	7.94E+03	1	79
-0.211910408	6	8.23E-01	0.672603264	6
0.098247926	12	6.84E-02	-0.282658232	12
0.319960716	4	8.14E-02	-0.287015412	4
-0.221068689	3	6.93E-01	-0.166828114	3
-0.095798235	10	4.26E-01	0.00757107	10
-0.230997392	4	7.77E-01	-0.470124058	4
-0.206131163	9	9.68E-01	1	9
-2	2	6.24E+01	2	2
-0.33268625	12	3.83E+00	-0.857125467	12
-0.488652775	8	6.05E+00	-1	8
-0.533053013	21	3.05E+02	0.280741652	21
-0.766549519	6	1.65E+01	-1	6
-0.419172715	8	3.80E+00	-1	8
0	5	2.81E-01	-0.080742893	5
-0.43646582	4	1.80E+00	-0.324863972	4
0.297946839	7	4.01E-02	-0.1111032	7
0.108335732	1	2.96E-01	-0.032239011	1
0.95687407	5	2.99E-03	0.135135337	5
0.763044114	11	2.44E-04	0.491225358	11
-0.065812159	3	4.06E-01	-0.129735514	3
2	4	9.59E-05	1	4
0.151379419	10	5.86E-02	0.410930946	10
-1	4	3.92E+01	-0.15150009	4
-0.420468113	5	2.07E+00	0.523924483	5
-0.05697442	22	2.09E-01	0.246471461	22

0.042938286	6	2.08E-01	-0.30568224	6
0	1	3.73E-01	0	1
-0.546921688	14	5.03E+01	0.01703587	14
-0.292499681	91	3.70E+04	-0.202174866	91
0.946168877	6	1.58E-03	0.777660241	6
0.562643996	5	1.94E-02	-0.172370246	5
-0.213290055	11	1.17E+00	0.010932747	11
0.165652048	10	5.22E-02	0.305767835	10
-0.48725407	5	2.84E+00	2	5
2	3	1.60E-03	2	3
0.472353076	8	9.53E-03	1	8
0.784281255	5	6.78E-03	-0.134831133	5
0.150281543	1	2.71E-01	-0.04378413	1
-0.044974954	3	3.78E-01	-0.350101082	3
0.331765186	29	5.76E-05	0.837955787	29
-0.772090669	20	7.53E+03	0.811563828	20
-0.021174486	2	3.69E-01	-0.208756797	2
0.245967904	29	3.34E-04	0.373529407	29
-0.398207252	9	3.99E+00	0.529168619	9
-0.686977204	13	1.53E+02	-0.576385662	13
0.54407801	54	1.70E-11	1	54
0.777579745	10	3.84E-04	0.044506506	10
-0.09371888	3	4.47E-01	-0.033143207	3
-2	11	6.71E+05	-1	11
-2	12	3.40E+06	-0.700451052	12
-2	8	3.88E+05	-1	8
-1	3	3.85E+01	-0.601198512	3
-0.650377481	13	1.06E+02	-0.326985993	13
0	1	3.73E-01	-0.020028322	1
-0.137225839	6	5.50E-01	-0.532270681	6
-2	9	8.36E+04	-1	9
-0.193603714	7	7.89E-01	-0.17420307	7
-0.373416942	10	3.95E+00	-0.501632693	10
-0.355093354	8	2.47E+00	-0.235409786	8
-1	35	1.74E+12	-0.363709826	35
-0.435047289	34	1.11E+03	0.361275115	34
-0.52243831	9	9.96E+00	-0.10894849	9
-0.460662156	13	1.59E+01	-0.417172691	13
-0.154691646	5	5.86E-01	0.070205998	5
0.294759331	6	5.33E-02	-0.446090446	6
-0.493087088	7	4.84E+00	0.149531278	7
-1	46	1.27E+13	0.044221634	46
0.480116361	4	4.23E-02	0.622780488	4
0.227005107	3	1.48E-01	1	3
0.3000807	3	1.15E-01	0.65233163	3
-0.133070921	7	5.47E-01	0.78082987	7
-0.144267185	8	5.99E-01	0.470909657	8

-0.651452785	12	7.51E+01	1	12
-0.685560427	9	3.32E+01	1	9
-1	10	1.70E+03	-1	10
-0.848196053	17	5.33E+03	0.150398817	17
-0.364868057	15	8.56E+00	-0.105980108	15
-0.243133576	4	8.16E-01	-0.209550124	4
-0.52917663	8	7.94E+00	-0.389823908	8
-0.663835857	44	9.74E+06	-0.188655491	44
-0.404735176	25	9.40E+01	-0.049844663	25
-0.299853108	11	2.48E+00	-0.173827048	11
0.246114103	8	4.35E-02	1	8
-0.381376527	10	4.21E+00	0.735466137	10
-1	4	1.81E+01	-0.109158448	4
-1	9	7.06E+02	-0.732854977	9
-0.572321671	17	1.64E+02	0.980793029	17
-0.003233574	6	2.67E-01	0.130444866	6
0.110655446	5	1.66E-01	0.164207776	5
-0.39329874	20	3.01E+01	0.065491753	20
-1	12	8.14E+03	-0.360320351	12
0.042741078	9	1.55E-01	0.089197761	9
-1	54	4.67E+14	0.304880865	54
-0.629613065	6	7.87E+00	-0.049136885	6
-0.044825201	7	3.20E-01	-0.05072939	7
0.001711005	20	9.48E-02	0.073568954	20
-0.640491219	2	2.07E+00	-0.289042087	2
-2	13	1.71E+06	0.022858986	13
-0.154509776	11	7.03E-01	-1	11
0.594862566	12	6.63E-04	-0.767621477	12
-0.018623215	8	2.58E-01	-0.780156112	8
-1	8	3.54E+02	-0.825120776	8
-0.866421797	13	9.18E+02	-0.43370705	13
-0.14188529	1	5.05E-01	-0.533071835	1
-1	8	2.33E+02	-0.834190973	8
-0.694652653	6	1.12E+01	-0.602315321	6
-0.947237172	12	1.19E+03	-0.840213749	12
-0.18030792	12	9.22E-01	-0.025163773	12
-0.20633279	10	1.03E+00	-0.214952269	10
0.215162408	6	8.19E-02	-0.414843151	6
-2	8	2.16E+04	-1	8
-0.339953133	17	8.76E+00	-0.580414778	17
-1	6	2.89E+02	-0.965827652	6
-2	7	3.05E+03	-2	7
-2	7	2.19E+03	-0.730774609	7
0.098246032	50	4.02E-04	-0.478937866	50
0.539223512	2	7.75E-02	-2	2
0.148577846	6	1.17E-01	-1	6
-1	8	1.04E+03	-0.910009508	8

-1	10	1.11E+03	-0.511784617	10
1	7	3.99E-04	-0.391253629	7
0.128912919	12	5.14E-02	-0.191104464	12
-0.113728022	1	4.75E-01	-0.068340136	1
0.062629256	33	9.12E-03	-0.870099557	33
2	14	1.28E-08	0.527588794	14
-0.24047258	24	4.59E+00	0.551231243	24
-0.501813465	9	8.56E+00	-0.458664298	9
-0.530319087	5	3.49E+00	-1	5
-0.029017618	18	1.65E-01	-1	18
0.166685448	7	8.89E-02	0.356899332	7
0.144227601	2	2.33E-01	0.234689022	2
0.190038799	7	7.72E-02	0.084765112	7
0.884581167	12	4.43E-05	-0.849924916	12
-0.217051031	2	6.36E-01	-0.166879681	2
-0.525743942	16	6.94E+01	-0.822675875	16
-0.401905601	19	2.81E+01	-0.166862637	19
0.184760908	23	3.70E-03	-0.501550856	23
0.572647558	17	8.77E-05	0.302152807	17
-0.349864321	9	2.79E+00	-1	9
0.651345305	10	1.06E-03	-2	10
-0.100215655	9	4.43E-01	0.370222806	9
-0.402649954	7	2.80E+00	0.159893939	7
0.145980512	7	1.01E-01	0.871535796	7
-0.501290504	20	1.45E+02	0.792608286	20
-0.375309341	9	3.37E+00	-0.157066595	9
-0.729469177	18	1.79E+03	-1	18
-0.732419219	13	2.41E+02	-0.393525563	13
-1	32	7.62E+09	-1	32
-0.24704174	29	8.10E+00	-0.776089221	29
-0.123242821	27	6.29E-01	-0.524667286	27
-0.435383951	9	5.24E+00	-0.234644395	9
-0.758957577	7	2.43E+01	-0.227139176	7
-0.25938618	14	2.35E+00	-0.314847566	14
-1	15	2.07E+05	-0.942481408	15
-2	11	6.10E+05	-1	11
-0.086050331	23	3.27E-01	-0.228928697	23
-0.712877981	46	9.52E+07	-0.963383032	46
-0.678419663	16	4.31E+02	-1	16
0.347593693	5	5.40E-02	0.437244963	5
-0.153036831	80	5.32E+00	-0.099473311	80
0.527103497	6	1.52E-02	0.601241212	6
0.433264733	20	1.75E-04	-0.573175428	20
-0.369531033	10	3.83E+00	0.085260812	10
-0.953784163	4	1.50E+01	-0.868017689	4
-2	7	2.46E+04	-1	7
-2	4	7.59E+02	-1	4

-0.696129327	5	7.67E+00	-0.731150472	5
-0.663707077	16	3.61E+02	-0.293954824	16
-0.137615811	8	5.73E-01	0.036604386	8
-0.267430224	4	9.02E-01	-0.128698675	4
0.406245623	25	4.82E-05	0.193343233	25
-0.047554622	6	3.39E-01	-0.620436683	6
0.277171988	43	5.14E-06	2	43
-0.131876929	2	5.02E-01	1	2
-1	4	1.91E+01	1	4
-0.883158126	4	1.12E+01	0.199673512	4
-0.716127488	4	5.66E+00	-0.383616392	4
0.044845986	17	6.83E-02	-0.648603512	17
-2	7	2.88E+05	-1	7
-0.752466304	4	6.57E+00	-1	4
-2	2	4.94E+01	-1	2
-0.541755099	12	2.70E+01	-0.200418013	12
-0.242043308	7	1.06E+00	-0.123156972	7
0.211455438	5	1.03E-01	-0.217652507	5
0.313106121	9	2.11E-02	-0.023768173	9
-0.2977105	14	3.54E+00	0.361954611	14
0.002632723	6	2.58E-01	0.021061618	6
-0.125116961	15	5.70E-01	0.7125934	15
-0.485162996	6	3.61E+00	0.420216571	6
0.272757383	5	7.70E-02	-0.148176486	5
0.017193354	36	2.04E-02	0.181014402	36
0.221011727	8	5.15E-02	-0.113338781	8
-0.153514182	2	5.33E-01	0.057409408	2
-0.133850874	2	5.05E-01	0	2
0.484137744	7	1.30E-02	-0.735595279	7
-0.068529844	19	2.71E-01	0.255265402	19
0.40009123	10	7.95E-03	0.057088981	10
-0.085146478	11	3.85E-01	0.123283542	11
-0.440803579	30	5.33E+02	0.044243054	30
-1	6	3.69E+02	0.738749805	6
-0.397009477	7	2.71E+00	0.283497256	7
0.437842221	6	2.46E-02	0.010330167	6
0.456650314	6	2.22E-02	0.529726452	6
-0.629395966	2	2.00E+00	-0.209190688	2
-0.313393952	30	3.61E+01	-0.688413481	30
0.314579613	8	2.75E-02	-0.714285073	8
-0.009553109	3	3.35E-01	-0.007954337	3
-2	27	3.13E+12	-1	27
-0.282421659	20	5.97E+00	-0.3268742	20
-0.044097667	25	1.50E-01	0.050160699	25
0.379982329	18	7.24E-04	0.002704841	18
2	3	8.62E-04	0.243899387	3
0.825236521	5	5.58E-03	-1	5

-0.38073101	2	1.00E+00	-0.525973121	2
-1	17	5.11E+05	-1	17
-0.249043293	1	6.34E-01	-0.234774422	1
-0.518365169	27	1.22E+03	-1	27
-0.439963317	7	3.51E+00	-0.465417344	7
0.485675331	12	1.84E-03	0.163116983	12
0.164603781	7	9.00E-02	-0.017347682	7
-0.584076064	15	1.02E+02	-1	15
0.103622752	10	8.59E-02	-1	10
-0.897018204	4	1.19E+01	-1	4
0.238800733	2	1.79E-01	-0.362157019	2
-0.394402149	32	2.91E+02	-0.460187027	32
-0.224116228	15	1.74E+00	-0.491098732	15
-0.451222045	8	4.71E+00	-0.225056644	8
-0.29954743	1	7.06E-01	0.684141123	1
0.29537522	49	6.13E-07	1	49
1	4	3.91E-03	1	4
0.14068275	7	1.04E-01	-0.471859694	7
1	17	2.44E-07	1	17
-0.778792277	10	1.02E+02	2	10
-1	24	5.00E+07	1	24
-0.958332257	16	1.22E+04	0.630065684	16
-1	8	3.98E+02	0.39951854	8
0.158061929	6	1.11E-01	0.802475283	6
-0.76571477	68	6.66E+12	0.046673794	68
0.071966506	8	1.40E-01	0.575891304	8
2	4	5.84E-05	0.884287103	4
1	18	7.65E-10	0.183749759	18
0.370138618	9	1.38E-02	0.634461227	9
-0.161014658	5	6.04E-01	-0.166756916	5
-1	8	2.74E+03	-0.445159175	8
-2	7	8.63E+03	-0.790037405	7
-0.350523548	6	1.74E+00	-0.471729428	6
-0.411562221	31	3.50E+02	0.418961407	31
-2	3	6.96E+01	-1	3
-0.120355232	5	4.98E-01	-0.24693458	5
0.1270662	13	4.48E-02	0.034086383	13
-0.057435111	12	2.93E-01	-0.030584389	12
-0.212442624	19	2.01E+00	-0.088386347	19
-0.225794482	13	1.52E+00	-0.874039801	13
0.12962181	3	2.07E-01	-0.380405148	3
-0.437297714	10	6.60E+00	-0.264281123	10
-0.060165836	11	3.10E-01	-0.166326675	11
-0.037530925	2	3.86E-01	-0.023565101	2
-0.229427377	8	1.06E+00	-0.041068899	8
-0.643471516	10	3.45E+01	-0.323842446	10
-0.823430072	4	8.78E+00	0.510759356	4

0.492342573	8	8.33E-03	0.612460163	8
0.064122638	32	9.86E-03	0.395474224	32
0.306926571	21	8.44E-04	1	21
0.498899666	17	2.22E-04	0.601387385	17
-0.772704524	25	6.71E+04	-0.339724774	25
-0.213554878	6	8.31E-01	-0.280720899	6
-0.173275091	20	1.22E+00	-0.194621915	20
-0.002002565	3	3.26E-01	-0.080530677	3
-2	12	3.74E+06	0.208232123	12
0	6	2.62E-01	0.263734626	6
-0.841431845	22	5.41E+04	-0.448673331	22
-0.572267298	28	4.66E+03	-0.221784931	28
0	2	3.48E-01	-0.218333052	2
-0.014037908	12	1.95E-01	-0.730845973	12
-2	17	4.53E+08	-1	17
-0.919250853	6	3.77E+01	-2	6
-0.077998098	17	3.22E-01	-0.111413194	17
-0.635791452	9	2.30E+01	-0.500995266	9
-1	14	1.10E+05	-0.715642657	14
-0.097397736	23	3.94E-01	-0.113410825	23
-0.052172372	8	3.23E-01	0.173094248	8
-0.125588101	10	5.41E-01	0.134625173	10
0.005228664	21	8.36E-02	-0.462542667	21
-0.42461569	5	2.11E+00	-0.595030609	5
-0.073407676	12	3.40E-01	-0.864180492	12
-0.485578148	5	2.82E+00	-0.310845865	5
-0.014982516	9	2.37E-01	-0.233467695	9
-0.950408836	15	6.41E+03	0.092372525	15
-0.099929585	4	4.54E-01	0.1308506	4
-2	1	3.72E+01	-0.779422376	1
-0.457035081	7	3.89E+00	-0.715642405	7
-0.008797893	8	2.41E-01	-0.391475683	8
-0.975901559	8	1.60E+02	-2	8
-0.097299663	8	4.37E-01	-0.04578968	8
0.414801256	7	1.98E-02	-0.165623835	7
-1	5	4.21E+01	-0.824427114	5
0.892054948	6	2.11E-03	-0.274966564	6
-0.551281492	15	7.04E+01	0.183947838	15
-0.626463671	11	4.23E+01	0.335207169	11
-0.621922931	1	1.40E+00	0.616777264	1
0.363474578	8	1.98E-02	0.75364532	8
1	5	1.64E-03	0.545044259	5
-0.428635563	12	9.37E+00	-1	12
-0.829589113	21	2.80E+04	-0.782668026	21
-0.144303198	24	8.77E-01	-0.521442439	24
-0.74319875	5	9.59E+00	0.363983642	5
-0.953745063	18	3.51E+04	-0.520525729	18

0.503508155	12	1.56E-03	0.407673648	12
0.48742273	38	7.09E-08	-0.05934817	38
-0.425470542	63	3.70E+05	-0.468880514	63
-0.131107235	8	5.48E-01	-0.388846081	8
-1	12	5.05E+04	-1	12
-1	10	5.02E+03	-0.177518135	10
-0.850380428	9	1.12E+02	-0.109646084	9
0	1	3.73E-01	-0.034048683	1
-0.109443389	4	4.72E-01	-0.091036865	4
0.28048474	2	1.59E-01	-0.455280132	2
-0.489419221	2	1.36E+00	0.010582061	2
-0.004285953	6	2.68E-01	0.001075088	6
-0.640153919	7	1.18E+01	-0.00482081	7
-0.011498208	17	1.39E-01	1	17
-1	23	3.43E+06	-0.721296883	23
-0.470403912	23	1.89E+02	0.256044877	23
0.080903557	10	1.03E-01	0.393721125	10
-0.718279817	31	2.80E+05	-0.252107855	31
-0.523599304	11	1.73E+01	-1	11
-0.600818825	4	3.53E+00	-2	4
-1	6	1.78E+02	-0.798674031	6
-0.50845343	5	3.15E+00	-0.000207614	5
-0.41765549	30	3.27E+02	-0.294151797	30
-0.224744364	9	1.11E+00	-0.138833197	9
-0.454554514	4	1.94E+00	-0.383150269	4
-0.053588951	3	3.89E-01	-0.088081861	3
-0.761561603	17	1.79E+03	-0.399973275	17
-1	12	4.64E+03	-0.674822886	12
-0.705077435	9	3.83E+01	-0.502659534	9
-0.651248936	11	5.25E+01	0.075699775	11
-0.102487026	11	4.48E-01	-0.186620718	11
1	5	3.70E-04	0.323127423	5
-0.120622446	9	5.15E-01	0.498210308	9
-0.352473387	6	1.76E+00	0.38655691	6
0.004095173	19	9.86E-02	-0.585039186	19
0.740418877	7	2.75E-03	-0.843617303	7
0.618083173	5	1.49E-02	0.320330045	5
0.252061866	30	2.33E-04	0.288975752	30
2	13	2.05E-08	0.080565211	13
-0.358334547	3	1.11E+00	-1	3
-1	6	6.39E+01	-0.241943028	6
1	3	3.67E-03	0.508498202	3
0.733855896	9	9.48E-04	-0.782899945	9
-2	4	3.04E+02	-1	4
-1	6	2.67E+02	-1	6
-0.331419941	5	1.36E+00	-0.850825559	5
0.252382169	5	8.48E-02	-2	5

0.379290786	3	8.79E-02	-0.193103892	3
0.164479068	6	1.08E-01	0.267851742	6
-0.235312579	4	7.91E-01	0.046302444	4
-0.467450454	16	3.46E+01	-0.181196815	16
0.544998822	17	1.24E-04	0.157110524	17
2	20	1.85E-14	0.839202503	20
-0.0376566	4	3.52E-01	-0.29211233	4
0.374308096	4	6.52E-02	-0.575389167	4
-0.029826897	8	2.78E-01	-0.392017564	8
-0.255892777	3	7.81E-01	-0.230558141	3
-0.40835591	4	1.61E+00	-0.426074282	4
-2	5	3.30E+03	-1	5
-1	8	5.63E+02	-0.978773436	8
-0.001296975	17	1.22E-01	-0.835811561	17
-0.690901574	6	1.10E+01	-1	6
-0.679828195	10	4.62E+01	-0.960494262	10
1	7	4.85E-05	-0.90865475	7
0.050397908	1	3.35E-01	-0.046933298	1
-1	8	3.11E+02	-2	8
0.105926641	6	1.48E-01	-0.260410281	6
-0.256104388	8	1.27E+00	0.093383932	8
-0.605143068	9	1.83E+01	-0.323555492	9
0.114401859	11	6.81E-02	-0.083600235	11
-0.148554114	27	1.02E+00	-0.53298353	27
-1	12	1.55E+04	-1	12
-0.01842614	3	3.45E-01	-0.019204485	3
0.001991877	6	2.59E-01	-0.109450976	6
1	8	3.80E-05	-0.653220388	8
0.788474647	16	1.04E-05	-0.147154938	16
1	5	2.04E-03	0.5592468	5
0.34261232	10	1.26E-02	0.375469442	10
-0.537590308	2	1.55E+00	0.362719049	2
0.068916096	21	3.17E-02	0.654195368	21
1	5	8.34E-04	0.656757201	5
-1	9	4.06E+02	-0.467215671	9
-0.226575143	8	1.04E+00	-0.181730358	8
0.143501271	2	2.33E-01	0.04356483	2
-1	9	5.19E+03	-1	9
-0.693603302	2	2.40E+00	-0.118920803	2
-0.737714012	41	2.65E+07	-0.827169483	41
-2	6	2.05E+04	-1	6
-0.738312642	6	1.42E+01	-0.819482415	6
-1	1	5.89E+00	-0.628137868	1
-0.66580894	5	6.64E+00	0.515178205	5
-0.249044204	12	1.75E+00	-0.188016309	12
-0.504060538	11	1.46E+01	-0.13838129	11
-0.598785944	7	9.19E+00	-0.360346991	7

-0.355428822	4	1.29E+00	-0.579670362	4
-2	8	1.29E+04	-2	8
-0.900329877	6	3.40E+01	-0.588086053	6
0.167588892	16	1.74E-02	2	16
-0.701926916	15	3.87E+02	0.31158804	15
2	11	1.57E-07	0.565204374	11
-0.147126763	3	5.37E-01	0.039124526	3
-0.024041936	1	3.93E-01	-0.033170612	1
-0.216199874	5	7.85E-01	-0.38042902	5
-0.128723325	4	5.11E-01	-0.428514532	4
-0.244226232	5	8.97E-01	-0.254435239	5
-0.252308742	8	1.24E+00	-0.511423781	8
-1	6	7.12E+01	-0.654488916	6
-0.007807717	6	2.73E-01	-0.034964714	6
-0.18549375	12	9.68E-01	-0.292586698	12
0.30643166	15	4.34E-03	0.559219431	15
-0.09642961	9	4.31E-01	0.016357853	9
-0.047861205	2	3.97E-01	-0.024318869	2
-0.071596706	2	4.24E-01	-0.92011067	2
-0.652700198	55	3.53E+08	0.104958178	55
-0.679571747	11	6.71E+01	-0.336982274	11
0.00566321	3	3.18E-01	-0.268441106	3
-0.676960268	8	2.14E+01	-0.364531639	8
-0.440963791	4	1.84E+00	0.009791956	4
0.236812036	12	1.88E-02	0.550847466	12
0.292903392	6	5.38E-02	-0.400741471	6
-0.328196435	61	4.32E+03	-0.527057908	61
0.517984514	25	6.56E-06	1	25
-0.839483104	1	2.23E+00	0.789013416	1
-0.903353947	3	7.23E+00	-0.074490468	3
-1	3	1.15E+01	-0.425897975	3
0.060223826	7	1.69E-01	-1	7
0.828555003	19	1.02E-06	-0.247080976	19
0.573119095	1	1.10E-01	-0.137273183	1
-0.508532882	3	1.86E+00	0.239881696	3
-0.469906474	17	4.51E+01	-0.472613074	17
-0.58620614	10	2.18E+01	-0.02347497	10
-0.037055219	6	3.20E-01	-0.125725005	6
-0.747786254	19	3.47E+03	3	19
-0.46218948	19	6.51E+01	0.084840904	19
-0.445630753	37	2.78E+03	-0.426662018	37
-0.40644147	11	6.27E+00	-0.78889676	11
-0.415014442	4	1.65E+00	-0.03264852	4
-0.081404504	11	3.73E-01	-0.176298631	11
-0.001073057	12	1.73E-01	-0.407732021	12
-0.303358831	3	9.19E-01	-0.227643735	3
-2	9	2.59E+05	-2	9

-1	12	4.24E+03	-1	12
-0.747828187	18	2.29E+03	0.063464013	18
-0.739916843	53	4.07E+09	0.289213588	53
-0.371612045	8	2.76E+00	0.428804338	8
-0.295610851	9	1.87E+00	-0.498692954	9
-0.485030644	7	4.61E+00	-0.344648327	7
-0.352797944	7	2.07E+00	-0.267766	7
-0.381001495	10	4.20E+00	-1	10
-0.217306612	8	9.78E-01	-0.172689705	8
-1	9	6.82E+03	-0.912074471	9
-0.186612821	7	7.56E-01	0.631021863	7
-0.148808997	4	5.55E-01	0.137204514	4
-0.634081597	19	7.13E+02	-1	19
-0.78094889	10	1.04E+02	-0.60265286	10
-0.277642223	2	7.53E-01	-0.04715622	2
-0.62471363	13	8.21E+01	-0.519380606	13
-1	4	2.45E+01	-0.585353656	4
-0.80656338	8	5.12E+01	-0.797252485	8
-0.314611904	3	9.55E-01	-0.090806812	3
-0.765041638	17	1.87E+03	-1	17
-0.430935609	6	2.69E+00	-0.251385533	6
-0.639509984	10	3.35E+01	-0.437266297	10
-1	9	9.38E+03	-0.327683531	9
-0.554393764	11	2.26E+01	-0.396514819	11
-1	8	8.53E+02	0.152489568	8
-0.283031829	5	1.08E+00	-0.456988853	5
0.187299589	4	1.40E-01	-0.418468503	4
-0.391897818	2	1.03E+00	-0.163085063	2
-0.322194708	8	1.98E+00	-0.107468332	8
-0.835227538	13	6.72E+02	-0.403013327	13
-1	7	3.18E+02	-0.478876085	7
-1	3	2.37E+01	-0.202993165	3
-1	5	4.40E+01	0.137826075	5
-1	14	5.60E+04	-0.998871558	14
0.256762797	13	1.23E-02	0.460998632	13
0.128443308	29	3.70E-03	-0.234832199	29
-0.269000758	6	1.12E+00	-1	6
-0.150368962	28	1.09E+00	-0.445326636	28
-0.184752148	18	1.30E+00	0.756883462	18
-0.782207623	10	1.05E+02	-0.956718856	10
-0.359098556	3	1.11E+00	-0.252153986	3
-1	3	1.04E+01	-0.947472921	3
-0.757973718	9	5.65E+01	-0.570652625	9
-0.078230144	7	3.92E-01	-0.226498477	7
-0.005966175	5	2.89E-01	-0.403839603	5
-0.031141989	15	1.97E-01	2	15
0.037142394	4	2.59E-01	-0.118652403	4

-2	5	4.90E+02	-0.587674768	5
-0.02596248	15	1.86E-01	2	15
-1	13	6.23E+03	0.52382082	13
-1	9	8.19E+02	-0.488638409	9
-0.612185574	6	7.16E+00	-0.42157515	6
-0.82697031	24	1.10E+05	-0.61888249	24
-0.008429121	2	3.56E-01	-0.346685778	2
-0.053554751	3	3.89E-01	-0.174023314	3
-0.860327543	20	2.73E+04	0.50342994	20
-0.058948756	2	4.10E-01	-0.023068639	2
-0.178875736	5	6.57E-01	-0.261436881	5
-0.580121162	4	3.24E+00	-0.867798725	4
-1	5	1.30E+02	-0.406714668	5
-2	9	2.84E+05	-0.023658795	9
-1	14	3.16E+05	0.219645123	14
-0.757171651	1	1.87E+00	-0.384998835	1
-0.329040448	13	4.28E+00	-0.404376266	13
0.875851191	5	4.39E-03	-2	5
0.229771388	2	1.83E-01	-0.202669298	2
0.099619587	5	1.75E-01	-1	5
-0.55619235	9	1.28E+01	-0.034454411	9
0.079912922	10	1.04E-01	-0.152798058	10
0.517953687	3	5.46E-02	0.000920663	3
1	4	4.36E-03	1	4
-0.058297761	16	2.59E-01	0.989258519	16
-0.72819526	24	2.02E+04	-0.25285702	24
0.192713084	26	1.79E-03	0.374107973	26
0.349901194	5	5.34E-02	0.936116702	5
-0.001590822	7	2.46E-01	0.13508707	7
-1	3	1.14E+01	-0.623779755	3
-2	25	1.50E+11	-2	25
-0.075203451	24	2.67E-01	0.549476961	24
0.757723295	13	8.22E-05	2	13
-0.14379583	11	6.41E-01	-0.875525222	11
1	6	3.68E-04	0.669613015	6
1	3	2.95E-03	1	3
0.361593466	30	2.30E-05	0.960071526	30
0.205719721	6	8.62E-02	0.90638869	6
-0.284345534	16	3.87E+00	0.444532001	16
-0.446778688	15	2.16E+01	0.814397771	15
-0.419700965	5	2.06E+00	-0.770334392	5
-0.210814594	57	2.54E+01	-0.099943854	57
0.191815339	12	2.86E-02	0.100270349	12
3	9	4.20E-10	0.351267301	9
0.338543558	18	1.25E-03	0.033362456	18
-1	10	3.99E+03	-0.426207967	10
-0.703433125	10	5.59E+01	-1	10

-0.84149979	14	1.16E+03	-1	14
0.103854456	9	9.85E-02	0.591181692	9
-0.291401833	7	1.43E+00	-0.252125906	7
-1	19	3.38E+07	-2	19
0.250546482	19	3.19E-03	-0.376668188	19
-0.092717014	6	4.32E-01	-0.495834172	6
-1	11	1.21E+03	-2	11
-2	13	1.14E+08	-2	13
-1	25	1.90E+07	-0.981787748	25
-0.799038727	10	1.20E+02	-1	10
-0.292058603	7	1.43E+00	-0.239977201	7
0.272868782	32	9.10E-05	0.001788098	32
0.190797464	6	9.34E-02	0.280188391	6
-0.212410668	10	1.09E+00	-0.320028368	10
-0.526125554	15	5.30E+01	-0.340994414	15
0.166681072	1	2.62E-01	-0.012109151	1
-0.152180874	4	5.63E-01	-0.279278411	4
0.064382791	7	1.65E-01	0.445764402	7
0.295191008	15	4.93E-03	-0.026251865	15
-0.952708861	9	2.38E+02	-1	9
0.516170408	6	1.61E-02	-0.64348559	6
-0.232781041	5	8.49E-01	-0.055659343	5
-0.440219562	15	2.01E+01	-0.723761351	15
-0.71308227	4	5.59E+00	-2	4
-1	12	2.14E+04	-0.758292968	12
-0.703468389	18	1.27E+03	-0.432738684	18
-0.042329413	9	2.89E-01	-0.065927687	9
-1	4	6.49E+01	-0.787607783	4
-0.792335712	4	7.73E+00	-0.345524817	4
-0.00972811	4	3.14E-01	-0.033640249	4
0.411643756	12	3.67E-03	-0.898515099	12
-0.68770758	20	2.20E+03	-0.400281017	20
-1	21	2.27E+06	-0.451099038	21
-0.369471822	31	1.40E+02	0.055544686	31
1	21	4.71E-09	0.233989918	21
0.537974168	29	8.44E-07	0.082866535	29
-0.435783848	21	6.93E+01	0.333984495	21
-0.027635749	3	3.56E-01	-0.023135691	3
-0.400011465	2	1.06E+00	-0.848602563	2
-0.385165016	9	3.62E+00	-2	9
-0.853007347	15	2.13E+03	-0.697005564	15
-0.296521754	8	1.67E+00	-0.747647247	8
-0.96866957	9	2.67E+02	-1	9
-0.19241993	13	1.09E+00	-0.595670294	13
-1	14	8.69E+05	-0.382246755	14
2	5	1.10E-04	2	5
0.699344277	16	3.01E-05	-0.057618385	16

0.695659721	4	1.75E-02	0.170207565	4
-0.066164251	16	2.85E-01	0.160796825	16
-0.519161645	14	3.74E+01	-0.340037528	14
0.377073671	3	8.86E-02	-0.221320618	3
-1	11	1.25E+03	-1	11
0.047002465	2	3.05E-01	-0.243073921	2
-1	8	3.75E+02	-0.722828572	8
-0.417869657	6	2.51E+00	-0.380481281	6
0.05224145	6	1.98E-01	-0.337145261	6
-0.273019666	8	1.42E+00	-0.96024801	8
-2	15	2.87E+07	-2	15
-1	2	1.56E+01	-0.512549671	2
-0.412390316	18	2.67E+01	1	18
-0.964836245	4	1.57E+01	-0.633021341	4
-0.759651791	11	1.34E+02	-0.64274661	11
-0.659877128	24	6.23E+03	-0.316336153	24
-0.360206655	12	4.95E+00	-0.108730279	12
0.533635175	15	3.33E-04	0.243161727	15
-2	6	1.09E+04	-0.479328056	6
-0.777129775	15	9.05E+02	-0.679126283	15
0.320066736	6	4.65E-02	-0.847490588	6
0.84360498	9	4.22E-04	-1	9
0.722112656	6	5.29E-03	-0.239808951	6
-0.215283573	5	7.82E-01	-1	5
0.433977002	9	8.65E-03	-0.528546461	9
-0.953616123	7	7.89E+01	-0.59382163	7
-0.609119455	15	1.35E+02	-0.760932368	15
-1	11	1.80E+04	-2	11
-1	9	6.10E+03	-0.60447385	9
-0.415497829	4	1.65E+00	-0.177998467	4
-0.093815597	9	4.23E-01	-0.521098797	9
-0.237754807	4	7.99E-01	-0.217614152	4
0.09279791	5	1.81E-01	-0.250393065	5
-0.863177878	24	2.06E+05	0.057261473	24
-0.846165327	5	1.56E+01	-0.078631898	5
0.608240198	12	5.85E-04	0.994418756	12
-0.325635975	7	1.76E+00	0.304908693	7
-0.512504457	21	2.23E+02	-0.958026406	21
-0.384591922	3	1.22E+00	-0.218080242	3
-1	18	2.74E+05	0.753989884	18
-0.467610895	17	4.38E+01	-0.421739331	17
0.80066096	6	3.46E-03	-0.262111245	6
-0.537734779	4	2.73E+00	-0.160407588	4
0.129365536	12	5.12E-02	0.324998324	12
-0.905902307	9	1.68E+02	-0.452138004	9
-0.502940032	20	1.49E+02	-2	20
-2	14	4.74E+08	-3	14

-2	50	6.13E+30	-2	50
-2	18	1.72E+08	-0.778642794	18
-0.639176157	16	2.69E+02	-0.784469608	16
2	5	5.76E-06	1	5
1	4	7.18E-04	1	4
0.513260483	9	4.82E-03	0.455344201	9
-0.433292419	5	2.20E+00	0.279959812	5
-0.739667789	6	1.43E+01	-1	6
0.005799444	7	2.36E-01	-1	7
-0.672803048	7	1.44E+01	-0.288608587	7
-0.934871346	3	8.06E+00	-0.954114946	3
-0.900917009	11	4.58E+02	-1	11
-0.36239357	3	1.13E+00	0.840394726	3
-0.140152328	9	5.95E-01	0.149557786	9
-0.522280841	5	3.36E+00	-0.172088029	5
0.223488592	5	9.73E-02	0.294727241	5
0.130454406	1	2.83E-01	-0.122884776	1
-0.896802968	5	1.99E+01	0.070296979	5
-0.162697576	9	7.03E-01	-0.155880958	9
0.925594213	4	6.83E-03	0.117417449	4
0.018215617	4	2.80E-01	0.125988126	4
0.748767359	6	4.58E-03	0.592975802	6
0.072380711	8	1.40E-01	0.842099247	8
-0.648395422	5	6.11E+00	1	5
0.045418965	22	4.10E-02	2	22
0.668281814	6	7.07E-03	2	6
0.415485361	9	9.91E-03	-0.266220504	9
-0.088021286	10	4.00E-01	-0.646292528	10
-0.573916421	12	3.64E+01	-0.556758533	12
0.120152423	7	1.18E-01	-0.728021639	7
0.025501601	3	2.97E-01	0.167180429	3
-0.776398829	42	1.23E+08	2	42
-2	32	2.85E+19	-2	32
-1	17	6.17E+06	-1	17
-0.966951885	4	1.58E+01	-1	4
-0.515711756	20	1.79E+02	0.306183766	20
-0.272114963	2	7.41E-01	-0.060384798	2
-0.591910314	4	3.40E+00	-0.493707099	4
-0.371811779	5	1.64E+00	-0.497548137	5
-0.283858526	7	1.36E+00	-0.090387183	7
-0.046068763	93	9.83E-03	2	93
-1	13	1.28E+04	0.456520043	13
-0.377902311	18	1.69E+01	-0.241002695	18
-0.742535675	23	1.70E+04	0.770710404	23
-0.176329077	15	1.02E+00	0.990789705	15
-0.466863158	11	1.06E+01	-0.519877582	11
-2	11	1.25E+06	-0.547292509	11

-0.249066109	36	1.61E+01	0.228126885	36
-2	4	1.46E+02	-0.095828591	4
0.490856836	7	1.25E-02	0.813955167	7
-0.494748602	31	2.15E+03	1	31
-2	13	3.06E+07	-0.909721665	13
-2	3	2.38E+02	-2	3
-0.509064961	7	5.34E+00	-0.275849579	7
0.850191318	3	1.74E-02	-1	3
-0.314972882	3	9.57E-01	-0.132373981	3
-0.26343525	13	2.22E+00	2	13
-0.923660099	14	2.78E+03	-1	14
-0.403437476	13	8.99E+00	0.069084121	13
0.235455601	20	3.14E-03	0.504007066	20
-0.176426368	2	5.68E-01	-0.089564773	2
-1	20	2.88E+07	-1	20
-0.203167033	5	7.38E-01	-0.363775087	5
-0.037306949	13	2.32E-01	0.987330492	13
-0.308788056	15	4.54E+00	-0.436869095	15
-1	14	1.36E+04	-1	14
-0.146130329	11	6.54E-01	-0.049103039	11
0.949103416	3	1.24E-02	-0.166124462	3
-0.118828152	3	4.87E-01	0.005001861	3
-0.343423179	7	1.96E+00	-0.268700295	7
-0.482346235	22	1.80E+02	-0.899671463	22
-0.685389222	6	1.06E+01	-0.230480269	6
-0.079337913	3	4.26E-01	-0.051320056	3
-0.338748246	14	5.48E+00	0.316833772	14
0.176163816	25	2.94E-03	0.209358267	25
0.708630438	21	1.85E-06	-0.499283292	21
-1	100	1.58E+33	-1	100
0.049149763	25	2.84E-02	-0.018648971	25
-0.01925894	6	2.91E-01	0.062184089	6
-1	7	1.85E+02	-0.772370524	7
0.1657753	29	1.72E-03	-0.682396671	29
-2	26	1.12E+11	-1	26
-0.840581742	7	3.98E+01	0.791868229	7
-0.793859102	13	4.45E+02	-2	13
-0.103809413	7	4.58E-01	-0.837456725	7
-0.360015003	11	4.19E+00	-0.35435342	11
-0.165028911	11	7.70E-01	-0.349861913	11
0.422709644	14	1.65E-03	-0.466547929	14
-0.357452218	27	5.60E+01	-0.124892423	27
-0.167205034	13	8.48E-01	-0.069621688	13
-0.573216736	4	3.15E+00	-0.574995062	4
-0.374498622	12	5.65E+00	-0.459699197	12
-0.493278591	2	1.37E+00	-0.355316221	2
-2	6	2.55E+04	-1	6

-0.882197169	2	4.05E+00	0.141460736	2
-0.962339318	5	2.71E+01	-0.212528672	5
0.044906622	10	1.38E-01	1	10
-0.389846787	11	5.42E+00	2	11
-1	1	7.40E+00	2	1
0.030460088	3	2.92E-01	0.173952255	3
0.36151467	8	2.01E-02	0.035855232	8
0.298518982	10	1.80E-02	0.128647838	10
0.188720441	3	1.69E-01	0.229917699	3
-0.093483794	25	3.62E-01	-0.233019558	25
-0.130375956	4	5.15E-01	0.045460181	4
0.450999147	16	5.87E-04	2	16
0.018219257	17	9.55E-02	1	17
0.001504853	21	8.85E-02	0	21
-1	3	1.72E+01	-0.59059843	3
-0.242134408	21	3.62E+00	-0.411849135	21
-2	10	8.22E+06	-2	10
-0.822179022	4	8.74E+00	-0.317724358	4
-1	15	8.16E+04	-1	15
-0.556758874	4	2.95E+00	-0.474333419	4
-0.872461894	19	1.97E+04	-0.349349411	19
-0.418017293	22	6.48E+01	0.061917107	22
-1	13	2.71E+04	-1	13
0.410529399	6	2.85E-02	-0.488562738	6
-0.016180154	10	2.25E-01	-0.016715399	10
0.171005695	23	4.64E-03	0.074677684	23
-0.151807901	5	5.78E-01	0.625865465	5
0.363141508	14	3.11E-03	0.570210878	14
0.532410378	17	1.46E-04	0.919648185	17
0.377330626	10	9.55E-03	0.456506785	10
-0.491780208	6	3.74E+00	-0.030081716	6
0.161638858	23	5.42E-03	0.079402727	23
0.32366363	2	1.41E-01	-0.229660593	2
-1	16	3.28E+05	-0.624609251	16
-0.769739171	6	1.68E+01	-0.364509703	6
-0.245825412	19	3.20E+00	-0.860395958	19
-0.755731537	14	4.65E+02	0.719186419	14
-0.774601672	5	1.11E+01	1	5
0.353040083	23	2.28E-04	-0.514058372	23
-0.230749523	9	1.16E+00	-0.488517789	9
-0.054562594	37	1.19E-01	-0.168680804	37
-0.767529143	42	9.51E+07	-0.185611141	42
-0.135186798	7	5.54E-01	0.022710711	7
-0.235890183	5	8.62E-01	-0.24248734	5
-0.381132498	11	5.03E+00	-0.173674404	11
-0.518673984	2	1.47E+00	-0.818990238	2
-0.47897456	5	2.73E+00	-0.272853923	5

-0.504612101	10	1.13E+01	-0.022719079	10
-0.965734795	22	3.90E+05	0.616589177	22
-2	13	1.05E+06	-1	13
-1	8	5.17E+02	-0.948499634	8
-2	4	1.63E+02	-0.354099235	4
-0.534340385	39	4.76E+04	-0.140615911	39
-0.396170967	6	2.23E+00	-0.394991096	6
-0.572321292	18	2.23E+02	-0.423072939	18
-0.292265632	15	3.77E+00	-0.238736968	15
-0.32021781	25	2.08E+01	-0.275958573	25
0.311711343	2	1.46E-01	0.400163908	2
-0.802633354	23	4.61E+04	-0.280510989	23
-0.762254438	10	8.96E+01	-0.688349953	10
-2	14	3.89E+06	-1	14
-0.002168596	7	2.47E-01	0.22822167	7
0.501654224	17	2.15E-04	-0.013154138	17
0.452413586	4	4.74E-02	-0.451273589	4
0.723119657	6	5.26E-03	0.08413185	6
0.458421228	3	6.70E-02	0.584450482	3
-0.365787708	7	2.24E+00	0.579675068	7
0.002917901	5	2.77E-01	0.345798204	5
0.090073037	11	8.41E-02	-0.217188022	11
0.1362486	6	1.25E-01	0.655868405	6
0.164483802	7	9.01E-02	0.105097814	7
-0.3354029	3	1.03E+00	-0.645347147	3
-0.237757352	12	1.58E+00	-0.781301303	12
-0.693865269	3	3.52E+00	-2	3
-0.85417091	8	7.04E+01	0.999610535	8
-0.262521368	26	8.20E+00	0.69514754	26
0.523475878	6	1.55E-02	-0.493938707	6
-1	6	4.65E+02	-1	6
-0.59542992	6	6.54E+00	-1	6
-0.496233058	76	2.08E+08	-0.631278403	76
-0.132449791	39	9.09E-01	-0.24868101	39
0.07814094	5	1.94E-01	-0.189568507	5
-0.002506422	18	1.16E-01	0.319621709	18
0.251781212	23	1.22E-03	1	23
-0.03157834	12	2.30E-01	-0.443605394	12
-2	9	1.81E+05	-1	9
-0.438924151	9	5.38E+00	-0.423689922	9
-0.128410048	4	5.11E-01	-0.073430985	4
-0.25178799	5	9.30E-01	-2	5
-0.796750905	37	2.32E+07	-1	37
-1	37	2.65E+12	-1	37
-0.021448005	1	3.91E-01	-0.003279656	1
-0.262117979	82	2.33E+03	0.261767	82
-0.14216348	3	5.28E-01	-0.150738051	3

-0.967484122	4	1.58E+01	-0.414681535	4
-1	10	1.68E+04	-0.783729566	10
0.732886422	29	1.56E-08	-0.502053938	29
1	23	7.20E-11	-0.6785166	23
-0.027664164	12	2.22E-01	-0.209628065	12
1	5	1.50E-03	0.504466241	5
0.040794526	25	3.29E-02	0.123901316	25
0.017822632	3	3.05E-01	0.226270447	3
-1	5	2.34E+02	-0.876331367	5
-0.331399625	6	1.57E+00	-0.529407126	6
-0.010874018	4	3.16E-01	0.05378608	4
0.914989049	7	9.54E-04	0.554872938	7
0.467819356	4	4.45E-02	0.270572748	4
-0.09193569	4	4.40E-01	0.074337172	4
-0.279155613	11	2.08E+00	0.13941237	11
-1	22	5.24E+06	-0.94066799	22
-0.545974398	40	8.68E+04	0.177144885	40
-0.934702376	16	9.23E+03	0.604108784	16
0.266284007	12	1.43E-02	0.467458275	12
-1	10	2.30E+03	-0.41170377	10
-0.42070539	4	1.69E+00	0.354183937	4
0.049570256	30	1.68E-02	1	30
-2	7	2.33E+03	0.694108238	7
-0.424529424	6	2.60E+00	0.4553676	6
-1	32	4.48E+08	-0.823578039	32
-0.219800346	9	1.07E+00	0.130139881	9
-0.267100081	3	8.11E-01	0.556313744	3
-0.808872998	8	5.20E+01	-0.235352149	8
-0.018071015	10	2.28E-01	-0.236847581	10
-0.13663462	17	6.74E-01	0.011184698	17
0.148256809	17	1.85E-02	-0.495020907	17
-1	13	2.14E+05	-1	13
-0.264117744	18	3.73E+00	-0.162402739	18
-0.405761997	25	9.57E+01	-0.446418467	25
-1	6	5.88E+01	-0.182431442	6
-0.395712445	49	7.39E+03	0.914068362	49
0.026055937	12	1.34E-01	1	12
-0.356877306	15	7.82E+00	0.591869152	15
-0.260571778	8	1.31E+00	0.685740389	8
-0.071286778	5	3.94E-01	-0.165657505	5
-0.880540668	11	3.84E+02	-0.837184826	11
-0.802473263	2	3.24E+00	0.85906891	2
0.693529041	8	2.16E-03	0.730845566	8
-0.750636585	12	1.90E+02	-0.547243239	12
-0.179783044	31	2.24E+00	-0.254267281	31
-0.358999062	64	2.54E+04	-0.288184235	64
0.789897187	4	1.19E-02	0.578472218	4

0.013096809	7	2.25E-01	-0.02492588	7
-0.935863127	24	7.19E+05	-0.698846027	24
0.220008914	11	2.72E-02	-0.021709495	11
-0.186382356	5	6.81E-01	0.063276705	5
-1	4	2.65E+01	-0.599228627	4
-2	12	3.99E+06	0.298742584	12
-0.35740274	16	9.27E+00	0.100838375	16
-0.637207218	6	8.20E+00	-0.471344954	6
-0.644318113	21	1.66E+03	-0.821352867	21
-0.462745787	6	3.19E+00	-0.515391252	6
-0.736477198	4	6.15E+00	-0.764961802	4
0	3	3.24E-01	-0.158020852	3
0	2	3.48E-01	0	2
-1	6	1.38E+02	-0.577628168	6
-0.46414444	11	1.03E+01	-0.436868283	11
-2	7	2.74E+03	-0.947428485	7
-0.715431398	16	6.71E+02	-2	16
-0.465975738	17	4.29E+01	0.101190344	17
-0.411324911	7	2.95E+00	0.225065456	7
-1	8	1.94E+02	-0.893054009	8
-0.752525261	7	2.33E+01	-0.972309328	7
-0.56654552	12	3.40E+01	-0.515539019	12
-0.4033111	33	4.31E+02	-0.665170692	33
-0.414422925	4	1.65E+00	-2	4
0.070134854	8	1.42E-01	-0.34881146	8
0.110196951	4	1.92E-01	0.198028672	4
1	6	1.05E-03	2	6
0.188055804	7	7.81E-02	-0.445324208	7
-0.101616599	7	4.52E-01	-0.14741136	7
-0.673147882	5	6.88E+00	-0.976979998	5
0.354951951	81	5.03E-12	-0.456116073	81
0.538181734	6	1.43E-02	-0.432556912	6
-0.798324259	29	6.48E+05	0.437522241	29
-0.066310252	17	2.78E-01	0.630088112	17
0.47424453	5	2.96E-02	-0.061056254	5
1	6	7.52E-04	0.497712085	6
0.423613062	13	2.32E-03	-0.022382342	13
0.011497923	9	1.95E-01	0.069836691	9
-0.455689863	13	1.52E+01	-0.186161212	13
-0.74898818	11	1.23E+02	-0.071736663	11
0.113329755	14	4.45E-02	0.026990146	14
-0.01974385	1	3.89E-01	-0.008245269	1
0.36148031	5	5.05E-02	-0.115340412	5
-0.170491792	4	6.06E-01	-0.106815128	4
0.684134551	10	8.14E-04	-0.501600355	10
0.276479628	10	2.15E-02	-0.542780143	10
0.3208698	5	6.13E-02	-0.287750461	5

0.37799277	2	1.21E-01	-0.181987235	2
-0.244148977	4	8.20E-01	-0.137581933	4
-1	66	2.57E+23	-2	66
-1	4	1.13E+02	-0.674618586	4
-0.063831932	8	3.49E-01	-0.131045806	8
0.564809965	11	1.36E-03	-0.148953758	11
-0.231519326	15	1.90E+00	0.035548183	15
-0.32871168	6	1.55E+00	0.397271724	6
-0.25843814	20	4.21E+00	-0.009787603	20
-0.898939099	5	2.01E+01	-0.805090723	5
-0.414096126	6	2.46E+00	-0.90054058	6
-0.729146715	3	3.97E+00	-0.920866928	3
-0.514406361	7	5.51E+00	-0.498755079	7
-0.484654961	10	9.65E+00	-0.70530935	10
-0.223752085	7	9.47E-01	-0.442251603	7
-1	27	8.62E+07	-0.831985118	27
-0.438915599	9	5.38E+00	-0.305448316	9
0.058217826	7	1.71E-01	-0.059178799	7
-0.031667533	4	3.44E-01	0.061511847	4
-0.881062864	1	2.43E+00	-0.326174338	1
0.327903686	9	1.89E-02	-0.30464857	9
0.621314857	6	9.12E-03	-0.283567879	6
-0.530200603	7	6.07E+00	0.140103779	7
0.312159318	19	1.35E-03	-0.186861364	19
-0.821249129	9	9.01E+01	0.786617165	9
-0.039887611	45	5.70E-02	2	45
-0.029507411	8	2.77E-01	-0.132459158	8
-0.149205706	5	5.71E-01	-0.421761819	5
0.251344687	4	1.08E-01	-0.190319853	4
0.510288092	3	5.60E-02	-0.321438867	3
0.019369523	8	2.00E-01	-0.842545329	8
0.152588464	7	9.68E-02	-0.604803784	7
-0.038195836	4	3.53E-01	-0.105910872	4
0.046611552	15	8.18E-02	-0.120069904	15
-0.161660802	12	7.75E-01	-0.043474738	12
-0.204914269	7	8.45E-01	0.190170184	7
-0.269976576	14	2.63E+00	0.626295046	14
-0.15444473	7	6.22E-01	-0.045041189	7
0.340355808	3	1.01E-01	-0.191948302	3
-0.148892415	5	5.70E-01	0.529724175	5
0.609151315	17	5.53E-05	1	17
-0.393902153	6	2.20E+00	-0.129574611	6
-0.220849752	4	7.45E-01	-0.255265516	4
-0.043156548	11	2.67E-01	-0.453217216	11
-0.580707508	15	9.82E+01	0.312705899	15
-0.477639902	21	1.31E+02	1	21
-0.443410888	14	1.67E+01	-0.59439704	14

-0.532341964	12	2.47E+01	-0.486265693	12
-0.446581973	12	1.11E+01	-0.041863911	12
0.111755515	12	6.03E-02	1	12
0.376123908	10	9.64E-03	2	10
0.939709236	5	3.24E-03	0.094145278	5
0.278460692	5	7.49E-02	-0.1738499	5
0.526305103	16	2.38E-04	-0.141787845	16
1	9	6.33E-05	0.245298254	9
-1	11	1.87E+04	-1	11
-2	4	1.65E+02	-0.288417913	4
-1	3	1.36E+01	0.021926381	3
0.615890834	53	1.94E-12	0.450606673	53
-2	1	9.24E+00	-1	1
-0.119185731	1	4.81E-01	-0.111832447	1
-0.568320021	4	3.09E+00	-0.050457922	4
0.62614817	16	7.22E-05	0.874418679	16
-1	29	3.46E+10	1	29
-0.6807521	6	1.04E+01	-0.145715164	6
0.116059858	2	2.52E-01	-0.433693817	2
-0.642660708	6	8.45E+00	-0.376623069	6
-0.453784964	15	2.34E+01	-1	15
0.227868358	45	1.43E-05	-0.729101867	45
0.077968017	7	1.52E-01	-0.64337953	7
-0.082523793	9	3.89E-01	-0.408541017	9
-0.469805595	15	2.80E+01	0.17128426	15
0.079594096	46	1.25E-03	0.07485776	46
0.323315323	6	4.56E-02	-0.540319852	6
-0.517765375	14	3.69E+01	-0.603022794	14
-1	7	1.83E+02	0.829907734	7
0.202532245	25	1.83E-03	2	25
-0.067425841	1	4.31E-01	0.087540118	1
-0.067425841	1	4.31E-01	0.087540118	1
-0.667843047	5	6.70E+00	-0.604321642	5
-0.173662413	15	9.86E-01	-0.168149281	15
-0.572090111	10	1.95E+01	-0.120095076	10
-1	7	1.85E+02	-0.227869606	7
-0.848292798	10	1.79E+02	-0.977493076	10
-0.645375472	7	1.22E+01	-0.495879822	7
0.002856313	14	1.44E-01	0.18076558	14
-0.024033315	3	3.52E-01	0.400670201	3
-0.715929895	9	4.15E+01	-1	9
-2	4	2.26E+02	-2	4
-0.645275431	10	3.50E+01	-0.891989495	10
-0.411107749	5	1.98E+00	-0.262215884	5
-2	60	1.03E+38	-0.333950151	60
-0.097416796	15	4.17E-01	-0.407609146	15
-1	16	1.36E+05	-0.844134373	16

-1	7	1.32E+03	-0.577572059	7
-1	11	8.30E+03	-2	11
-0.642587679	6	8.44E+00	-0.781994748	6
0	1	3.73E-01	-0.016699923	1
-0.238953685	19	2.91E+00	-0.381242368	19
-0.073782527	28	2.38E-01	-0.052385068	28
-2	4	5.49E+02	-2	4
-2	9	5.37E+04	-2	9
-2	8	1.58E+05	-3	8
-2	16	7.63E+07	-1	16
-0.347887013	16	8.27E+00	-0.188389916	16
-1	21	1.12E+08	2	21
-0.056234555	1	4.21E-01	0.002483533	1
-0.056234555	1	4.21E-01	0.002483533	1
-0.002342589	10	2.01E-01	0.002056962	10
1	7	9.82E-05	2	7
1	19	3.52E-08	0.712371103	19
0.902545829	3	1.45E-02	0.739445448	3
0.018844134	6	2.37E-01	-0.258068427	6
-0.422393959	7	3.16E+00	-0.558292857	7
-0.897249223	4	1.19E+01	0.489238513	4
-0.676423852	18	8.86E+02	-0.320236854	18
-0.10737154	13	4.67E-01	0.85353066	13
-1	3	1.04E+01	2	3
0.414623595	6	2.79E-02	0.568517594	6
-0.220058381	1	5.96E-01	-0.123739605	1
0.145973186	10	6.12E-02	1	10
0.40815987	19	3.55E-04	0.716808868	19
0.206918133	17	8.84E-03	0.875560723	17
0.40374094	13	2.82E-03	0.292518491	13
-0.942210332	6	4.26E+01	-0.048040375	6
-0.510056211	4	2.43E+00	-0.544701305	4
-2	11	4.41E+07	-2	11
-0.564857215	6	5.55E+00	0.200075473	6
-0.191520118	9	8.69E-01	-0.140902213	9
-0.278749489	36	3.39E+01	-0.114687422	36
-0.251627149	19	3.47E+00	-0.374385154	19
0.024515469	9	1.77E-01	-0.155610701	9
0	3	3.24E-01	-1	3
-0.415314685	12	8.28E+00	-1	12
0.314568627	4	8.33E-02	-0.380585084	4
-0.34988626	2	9.21E-01	-0.267112809	2
-0.689838858	16	4.94E+02	-0.912016591	16
2	24	7.39E-14	1	24
0.791203196	27	1.53E-08	1	27
1	5	2.37E-03	0.297025893	5
-0.472610511	5	2.65E+00	1	5

-0.576666671	88	5.14E+11	0.263133899	88
-1	28	5.31E+10	-2	28
-1	4	1.35E+02	0.10836147	4
-0.44942593	12	1.14E+01	-0.612869998	12
0.283607075	7	4.38E-02	-0.198275828	7
0.039748558	41	7.13E-03	0.127119206	41
0.294068072	12	1.10E-02	0.081265456	12
-0.056997116	3	3.94E-01	0.011393238	3
-0.276729147	3	8.39E-01	-0.551049847	3
-0.678794139	36	7.69E+05	-1	36
2	18	3.95E-13	2	18
0.173498779	31	1.02E-03	0.921221238	31
-0.405396054	18	2.43E+01	0.074504437	18
-1	6	3.28E+02	0.069093766	6
-0.426840121	14	1.40E+01	0.623040978	14
-0.047154419	4	3.66E-01	0.388293093	4
-0.47379252	3	1.65E+00	-0.047242321	3
-0.004442938	6	2.68E-01	0.274948134	6
2	7	4.51E-06	1	7
0.029991563	33	1.94E-02	-0.321467992	33
-0.253038631	11	1.65E+00	0.144979037	11
1	7	2.63E-04	-0.305181396	7
-0.517085127	29	2.04E+03	0.802573913	29
-0.389595481	11	5.41E+00	-0.230833248	11
-0.143592279	8	5.96E-01	-0.226641748	8
-0.150554185	3	5.44E-01	-0.00842914	3
0.303522928	6	5.08E-02	0.054771912	6
-0.510661655	14	3.42E+01	-0.515965409	14
-0.443433764	82	5.20E+07	0.520713735	82
-0.170850728	7	6.87E-01	-0.492975645	7
0.074348719	27	1.42E-02	-0.214015021	27
-2	8	1.18E+04	-0.553511875	8
-0.246821764	5	9.08E-01	-0.580584134	5
-0.957231638	8	1.41E+02	-0.832950812	8
-0.678503738	8	2.17E+01	0.103260054	8
-0.166040169	9	7.20E-01	-0.508068144	9
0.521253889	3	5.40E-02	-0.311160048	3
-0.002365933	3	3.27E-01	0.314493893	3
-0.069150869	8	3.62E-01	0.518273179	8
-0.441941847	21	7.61E+01	0.931452448	21
0.230772483	10	3.10E-02	1	10
-0.062315764	13	2.97E-01	0.251975784	13
0.010953713	24	6.07E-02	-0.108084443	24
-0.409164904	4	1.61E+00	-0.031465897	4
-2	5	1.15E+03	0.158008753	5
-0.341552621	13	4.84E+00	0.586190008	13
-3	4	1.84E+04	-0.234083644	4

0.546483851	7	8.90E-03	1	7
-0.081093521	5	4.13E-01	1	5
-1	3	1.88E+01	0.263894005	3
-0.215070279	1	5.90E-01	-0.365942643	1
-1	1	3.30E+00	-0.799356716	1
-0.651774598	7	1.27E+01	-0.071154957	7
-0.398713368	2	1.05E+00	0.141229733	2
-0.048862059	1	4.14E-01	0.056076537	1
-0.135026245	5	5.34E-01	0.296418711	5
0.213226997	3	1.56E-01	0.906237737	3
0.778293917	22	3.59E-07	1	22
-0.380019155	9	3.49E+00	1	9
-0.808257659	19	8.06E+03	0.863835955	19
0.595137579	7	6.63E-03	0.981432087	7
-0.211634799	29	3.92E+00	0.128406498	29
0.443484965	4	4.91E-02	-0.572148653	4
-1	16	3.16E+05	-0.179388789	16
-1	8	4.41E+03	0.045211388	8
-1	6	7.32E+02	-0.616925655	6
-1	7	1.43E+02	-0.708126221	7
-0.347143443	18	1.12E+01	-0.461686627	18
-0.545225027	2	1.59E+00	-0.25397838	2
0.260329136	9	3.11E-02	-1	9
-0.033679653	5	3.30E-01	-0.055998244	5
0	3	3.24E-01	-0.01307948	3
0.053218233	13	9.38E-02	-2	13
-1	46	2.63E+15	-2	46
-0.361738307	17	1.15E+01	-0.242048435	17
-1	9	1.36E+03	-2	9
-2	11	2.71E+06	-1	11
-0.827343001	13	6.21E+02	-1	13
-2	5	1.07E+03	-2	5
-1	5	7.75E+01	-1	5
-2	4	1.30E+03	-0.806753491	4
-0.599171062	13	6.36E+01	-0.41184016	13
-0.701501555	5	7.87E+00	-1	5
-0.586600136	6	6.24E+00	-0.48571847	6
-2	8	1.63E+05	-2	8
-0.478446563	3	1.68E+00	-0.023870781	3
-0.950207676	11	7.03E+02	-0.504118437	11
0	3	3.24E-01	-0.002958465	3
-0.265552647	4	8.95E-01	-0.054998246	4
0.51230496	5	2.47E-02	0.002717848	5
1	9	3.10E-05	-0.235086332	9
-0.696857548	8	2.45E+01	-0.109623147	8
0.241217286	3	1.41E-01	-0.009018638	3
-2	7	1.22E+04	0.122981506	7

0.266723672	10	2.32E-02	-0.188045241	10
0.66773396	12	3.36E-04	0.789171186	12
0.982601764	21	2.85E-08	0.587768627	21
0.451034395	9	7.62E-03	0.018313306	9
0.568857889	21	1.56E-05	0.731267427	21
0.523673171	6	1.55E-02	0.164826875	6
-1	11	1.21E+04	-0.731396389	11
-0.135856425	11	5.98E-01	-0.306009332	11
-0.609592643	3	2.63E+00	-0.223029857	3
-0.102750269	1	4.64E-01	-0.218791725	1
-1	9	4.02E+03	-0.619244338	9
-0.87586278	5	1.80E+01	-0.191399851	5
0.4023663	10	7.81E-03	-0.134855795	10
2	16	8.83E-10	-0.923155492	16
0.322542167	7	3.46E-02	-2	7
-0.24974699	12	1.76E+00	-1	12
0.046493966	2	3.06E-01	-2	2
0.120962701	15	3.53E-02	-0.069254087	15
-0.483570187	12	1.57E+01	0.011028836	12
0.064873857	10	1.17E-01	-0.003828819	10
-0.002133735	3	3.26E-01	-0.056428681	3
-0.532042749	22	3.97E+02	-0.486632323	22
-1	17	8.10E+06	-2	17
2	4	6.39E-04	0.88772377	4
2	2	3.45E-03	2	2
-0.020560676	1	3.90E-01	-0.008587802	1
-0.608402439	3	2.62E+00	-0.258425115	3
-0.666029666	7	1.38E+01	0.009864685	7
-0.085141487	1	4.47E-01	-0.005409332	1
-3	2	3.69E+03	-2	2
0.627533792	5	1.43E-02	0.677988479	5
0.31215998	4	8.41E-02	0.027993071	4
-0.258979867	41	3.39E+01	0.34914052	41
-0.933120404	17	1.56E+04	0.621375144	17
0.204984652	3	1.60E-01	-0.014643937	3
-0.441539684	23	1.17E+02	0.030322497	23
-0.857850639	5	1.65E+01	0.104425105	5
-0.472611516	5	2.65E+00	0.226615054	5
0.164689748	3	1.84E-01	-0.30117927	3
0.191315672	16	1.31E-02	0.244030561	16
-0.293960523	6	1.28E+00	-0.384061434	6
-0.642677759	13	9.82E+01	-0.030555705	13
-0.809500204	9	8.27E+01	-0.340586058	9
-0.382404358	9	3.55E+00	0.013554463	9
0.521351621	3	5.40E-02	-0.48021255	3
-0.281877442	26	1.17E+01	-1	26
0.051046711	2	3.02E-01	-0.149703736	2

-0.507810867	19	1.23E+02	0.294197929	19
-0.270730408	13	2.39E+00	2	13
0.169657691	6	1.05E-01	0.377447591	6
-0.017340247	18	1.41E-01	1	18
-0.623951796	18	4.42E+02	2	18
-0.353405381	19	1.43E+01	0.264047558	19
-0.095995152	4	4.47E-01	-0.124217126	4
-0.812072578	21	2.14E+04	-1	21
-1	10	8.33E+02	0.910062042	10
-0.576670166	8	1.09E+01	0.966673079	8
-0.877299008	31	8.95E+06	-0.018700902	31
-0.238833111	17	2.45E+00	0.014312997	17
-0.127152383	23	6.45E-01	1	23
-0.24591664	18	2.93E+00	-1	18
0.97732593	8	3.21E-04	-1	8
-0.470854365	7	4.23E+00	-0.530215209	7
-0.332130009	11	3.29E+00	-0.444093577	11
-0.458323163	7	3.92E+00	-0.607809417	7
-0.405097867	11	6.19E+00	-0.135391883	11
-3	6	5.54E+05	-0.025762844	6
-0.387713759	15	1.11E+01	-0.241664126	15
-0.274848844	4	9.30E-01	-0.245452743	4
-0.238478871	4	8.01E-01	-0.098374321	4
-1	11	1.75E+04	-0.761484138	11
0.044573526	3	2.78E-01	-0.034762364	3
0.776752808	6	3.94E-03	0.016022711	6
0.243562386	8	4.43E-02	0.245650252	8
0.302093928	3	1.15E-01	0.106179967	3
0.512908414	10	3.22E-03	0.25069652	10
-0.781247168	15	9.48E+02	0.048928319	15
-2	2	1.67E+02	0.295171925	2
0.322217936	17	2.06E-03	0.419804304	17
-0.410308127	12	7.90E+00	-0.83247491	12
-2	6	1.60E+04	-0.405086382	6
-1	6	2.49E+02	0.241998078	6
-0.1068595	14	4.64E-01	2	14
0.066023215	9	1.30E-01	3	9
-0.008220958	9	2.25E-01	0.77581533	9
0.90299533	23	2.55E-08	0.909756466	23
-0.169152396	14	9.01E-01	-0.216580068	14
-1	2	5.99E+00	0.052048173	2
-2	2	3.16E+01	-0.85719586	2
-0.677695539	13	1.39E+02	-0.05634511	13
-0.032517275	10	2.56E-01	0.341144842	10
-2	8	6.74E+03	-0.705864242	8
-0.80772157	5	1.30E+01	-0.688156617	5
-0.206953915	9	9.74E-01	-0.3852833	9

-0.749134554	5	9.86E+00	0.57568972	5
-0.109351554	6	4.73E-01	0.138869724	6
-0.322039884	15	5.28E+00	0.495939627	15
-0.057528734	38	1.24E-01	2	38
1	6	1.10E-04	3	6
-0.500220571	5	3.02E+00	2	5
-0.593794839	10	2.32E+01	0.411261141	10
-0.202285399	24	2.38E+00	0.061988641	24
-2	5	1.24E+03	-0.937067348	5
-1	7	1.05E+02	-1	7
-0.428000612	7	3.26E+00	-0.347692374	7
0.038648823	32	1.75E-02	0.008810289	32
-0.30567204	36	6.66E+01	0.449567669	36
-0.679100273	1	1.58E+00	-0.005689009	1
-2	6	2.14E+03	-0.807879078	6
-0.807126748	4	8.22E+00	-1	4
-2	18	1.69E+11	-3	18
-0.65564923	5	6.33E+00	-0.728070651	5
-0.02734963	1	3.96E-01	-0.01143908	1
-0.997470182	6	5.75E+01	-0.331376047	6
-0.611355801	19	5.20E+02	-0.117614963	19
0.491132215	30	1.49E-06	0.223999571	30
0.007309261	7	2.33E-01	1	7
0.116054524	10	7.78E-02	0.382699303	10
-0.647486811	12	7.23E+01	-0.358841711	12
-0.688928787	5	7.41E+00	-0.306283483	5
-0.79454924	9	7.40E+01	0.117515494	9
-0.475266382	4	2.11E+00	0.139867546	4
-0.394702874	5	1.83E+00	-0.131433513	5
0.080518846	13	7.14E-02	-0.082815838	13
-0.002707784	7	2.48E-01	-0.430541883	7
0.043896081	4	2.52E-01	0.075244498	4
0.198172915	1	2.45E-01	-0.063652616	1
-0.116675442	5	4.89E-01	0.320745819	5
-0.750559661	27	1.05E+05	-0.624909191	27
-1	4	5.32E+01	-0.669077274	4
0.067254276	6	1.82E-01	-0.384065456	6
0.228683287	6	7.61E-02	0.095170576	6
-0.578677755	10	2.05E+01	-0.674191865	10
-0.664356176	5	6.59E+00	0.119345143	5
-0.376542982	8	2.85E+00	-0.003238588	8
0.359366067	1	1.74E-01	0.109530514	1
-0.308795823	8	1.81E+00	-0.359718699	8
-0.081987519	2	4.37E-01	0.212515126	2
-0.918917087	4	1.30E+01	-0.933319278	4
-0.156278604	10	6.92E-01	0.125675803	10
0.335007303	12	7.50E-03	2	12

-1	17	2.23E+06	0.422107691	17
-0.393110762	13	8.11E+00	-0.78597916	13
-0.763896625	82	2.52E+15	-0.683048472	82
0.240460746	18	4.61E-03	-0.375866802	18
0.000443214	2	3.47E-01	-0.292307594	2
0.004337997	89	5.67E-04	0.219557122	89
-0.788421796	11	1.73E+02	2	11
0.174298067	4	1.48E-01	0.8564881	4
1	6	7.71E-04	-0.808953346	6
2	4	4.26E-05	0.746885565	4
1	7	9.87E-05	0.611953051	7
-0.593152365	4	3.42E+00	-0.208924231	4
-0.58899756	5	4.61E+00	-0.028926543	5
-0.141851735	25	8.59E-01	0.167614316	25
-0.173283703	10	7.93E-01	0.008251481	10
-0.444589225	11	8.73E+00	-0.214290314	11
-1	11	1.38E+03	-0.973222845	11
-0.654814603	20	1.36E+03	-0.559819039	20
0.020857337	11	1.53E-01	-0.213894045	11
-0.646454316	3	2.99E+00	-0.24937249	3
0.165585089	10	5.22E-02	0.20879296	10
-1	5	5.78E+01	-0.342223207	5
-2	1	1.73E+01	-0.220970534	1
-1	5	5.69E+01	0.325280125	5
0.514158723	9	4.79E-03	-0.244528678	9
-0.850405078	27	7.11E+05	0.415929511	27
0.311875761	6	4.86E-02	0.946908686	6
1	7	3.11E-05	0.270036714	7
0.286313036	17	3.25E-03	0.211372753	17
-0.801603915	25	1.12E+05	-1	25
-0.134631574	23	7.30E-01	-0.656325243	23
1	14	3.10E-06	-0.419765894	14
1	10	1.68E-05	0.976037336	10
1	2	6.47E-03	1	2
2	5	5.22E-05	0.510851524	5
-0.649856505	14	1.50E+02	0.134089882	14
0.080353915	11	9.15E-02	0.007154904	11
0.20614879	22	3.19E-03	0.103543738	22
1	3	7.39E-03	0.005637209	3
0	4	3.02E-01	0	4
-0.388875819	22	4.08E+01	-0.172523837	22
0.214632955	3	1.55E-01	-0.608325396	3
0.625399943	7	5.52E-03	-1	7
0.622586082	3	3.81E-02	0.016010328	3
-0.47641756	2	1.31E+00	-0.46332046	2
-0.930829035	17	1.51E+04	0.640396488	17
-0.055409001	30	1.55E-01	-0.853194827	30

-2	4	1.81E+03	0.476216146	4
-2	3	1.73E+02	-0.733895249	3
-0.723973756	20	3.73E+03	3	20
-0.494105695	23	2.79E+02	-0.194937503	23
-0.27550837	11	2.01E+00	-0.194468893	11
-1	2	6.54E+00	-0.307120501	2
-1	8	4.55E+02	-1	8
-0.826186983	4	8.88E+00	-0.799777406	4
0.801824568	4	1.13E-02	-0.97421697	4
0.424508417	8	1.31E-02	-0.79157133	8
0.239866402	4	1.13E-01	-0.260154086	4
-0.407442748	6	2.37E+00	-0.539834872	6
-1	9	1.15E+03	-0.736486781	9
0.608826274	15	1.42E-04	-0.567210889	15
0.869038105	8	6.64E-04	-0.326933551	8
-0.09578079	4	4.47E-01	-0.007757922	4
-0.732163946	19	2.80E+03	1	19
-0.846723845	15	1.99E+03	-0.881581056	15
0.761851056	2	4.17E-02	1	2
0.821518752	4	1.05E-02	0.484838095	4
0.029293786	14	1.09E-01	0.134120563	14
-0.331352456	10	2.82E+00	-0.053171243	10
-0.535648657	10	1.45E+01	0.837474887	10
0.219669364	9	4.20E-02	0.084387763	9
2	9	1.78E-07	2	9
3	9	1.09E-09	2	9
2	11	1.92E-07	0.87456253	11
-0.173672698	14	9.45E-01	0.01744198	14
-0.233699789	7	1.01E+00	-0.448937375	7
-0.588851782	4	3.36E+00	-0.01878829	4
0.158659788	12	3.89E-02	-0.474580694	12
-0.284888585	9	1.73E+00	-0.122710881	9
0.447178923	4	4.84E-02	-0.36499124	4
-0.304176175	9	1.99E+00	-0.589254582	9
-0.214712191	21	2.39E+00	-0.337947622	21
-0.799279421	62	2.06E+12	-1	62
0.062950158	6	1.86E-01	0.061612929	6
-0.898402395	8	9.48E+01	0.029568629	8
0.018763197	14	1.22E-01	-0.093671443	14
-0.298340586	9	1.91E+00	0.186129634	9
-1	8	7.24E+02	-0.89536255	8
-2	4	3.55E+03	-0.673514146	4
-0.151727421	6	5.95E-01	0.240436837	6
0.200326508	5	1.09E-01	0.02927666	5
1	8	1.72E-04	0.411971208	8
0.43777991	6	2.46E-02	0.622918171	6
-0.754226269	2	2.84E+00	-0.649678564	2

-0.028035891	7	2.89E-01	-0.086077755	7
-0.949436189	6	4.43E+01	-0.630470924	6
-0.641760331	19	7.94E+02	-0.316437561	19
-0.502954056	7	5.14E+00	-0.283084272	7
0.135731232	52	8.09E-05	0.526781816	52
-0.139218942	8	5.79E-01	-0.545418636	8
-0.203860163	5	7.40E-01	-1	5
-0.244726403	5	8.99E-01	-0.197879048	5
-0.304621027	4	1.05E+00	-0.362554377	4
0.002416507	21	8.73E-02	-0.315763982	21
-1	2	1.24E+01	-0.825106211	2
-0.76922955	11	1.46E+02	-0.89211669	11
-0.468969506	5	2.61E+00	0.336497372	5
-0.181710493	2	5.76E-01	0.115650651	2
-0.858335978	6	2.71E+01	-0.19632764	6
-0.452303997	11	9.33E+00	-0.091698702	11
-0.156679579	7	6.31E-01	-0.170315495	7
-2	14	1.77E+07	-1	14
-0.778423562	17	2.21E+03	-0.283513006	17
-0.191535125	9	8.69E-01	-0.119065083	9
0.015902612	4	2.83E-01	-0.120283354	4
-0.616280487	2	1.93E+00	-0.157109379	2
-0.220741861	1	5.97E-01	-0.013402462	1
-0.715381256	8	2.77E+01	0.094424007	8
-0.222874332	2	6.46E-01	0.053153738	2
0.348339513	6	3.99E-02	0.192212531	6
-0.07425649	2	4.28E-01	-0.180986217	2
0.210195148	11	2.96E-02	0.864658874	11
0.017822478	11	1.58E-01	0.11026649	11
0	1	3.73E-01	0.003070219	1
-0.401921001	7	2.79E+00	-0.443331853	7
0.290696333	80	2.18E-10	0.643711416	80
-1	7	4.07E+02	-1	7
-0.050525462	2	4.00E-01	-0.410604015	2
0.174280883	30	1.20E-03	0.287363603	30
0.082229764	17	4.26E-02	0.163414604	17
-0.276128504	18	4.37E+00	0.521800333	18
-0.120900262	6	5.03E-01	0.965065147	6
-0.607677211	6	6.99E+00	-0.389561231	6
-0.870765886	15	2.61E+03	-0.841008061	15
-0.352056904	2	9.26E-01	0.090958796	2
-0.525967811	10	1.34E+01	0.3247873	10
-1	20	2.94E+06	-0.698477489	20
0	1	3.73E-01	0	1
-0.095436377	8	4.32E-01	0.173506464	8
-2	14	1.41E+06	-0.639752178	14
-0.372382031	12	5.54E+00	0.753518357	12

0.196591799	6	9.05E-02	1	6
-0.945252738	23	4.88E+05	-1	23
-0.180399342	3	6.02E-01	-0.431884237	3
0	1	3.73E-01	-0.004690592	1
0	1	3.73E-01	-0.004690592	1
-0.075234088	3	4.20E-01	-0.089897614	3
0.300654282	7	3.95E-02	-0.117880629	7
-0.000584055	4	3.03E-01	-0.001183254	4
-2	4	5.73E+02	0.122376439	4
-0.556539691	19	2.42E+02	0.245318775	19
-0.02112034	4	3.29E-01	-0.234763853	4
0.344161133	4	7.38E-02	-0.34850413	4
-0.595284398	3	2.51E+00	0.392226229	3
-0.372590492	57	1.36E+04	0.259026038	57
-0.27575441	44	7.59E+01	0.340852027	44
-0.854114002	4	9.96E+00	-0.164794748	4
-0.577841023	7	8.10E+00	-0.356458474	7
-0.414944436	8	3.69E+00	-0.314709076	8
-0.163861669	11	7.63E-01	-0.182439275	11
-0.291101805	5	1.12E+00	-0.195570444	5
-0.60956377	8	1.36E+01	-0.666994674	8
-0.967030264	3	9.00E+00	-0.248317609	3
-1	14	1.84E+05	-1	14
-1	1	6.05E+00	-2	1
-1	3	1.78E+01	-2	3
0.549267361	24	5.77E-06	-0.225264852	24
-0.718889261	7	1.90E+01	0.268365368	7
-0.406801987	3	1.31E+00	-0.470657604	3
-0.095523865	13	4.15E-01	-0.079464298	13
-0.099237594	6	4.48E-01	-0.10575839	6
-0.356126916	4	1.30E+00	-0.095548069	4
-0.016604785	2	3.64E-01	-0.004911039	2
0	2	3.48E-01	0.05090544	2
0.141093845	8	8.82E-02	0.093171171	8
0.004017429	18	1.06E-01	0.006161186	18
-0.272616195	24	7.97E+00	-0.012790405	24
-0.109588778	8	4.75E-01	0.043709751	8
-0.047835761	5	3.53E-01	-0.070981997	5
0.549429893	4	3.18E-02	-0.286942476	4
-0.249584404	23	4.89E+00	0.006268251	23
-0.279016598	6	1.18E+00	-0.175688704	6
-0.223445894	12	1.38E+00	-0.112271951	12
-0.025434518	14	1.95E-01	-0.028796556	14
-0.436387309	7	3.44E+00	-0.366831999	7
-0.80714444	15	1.27E+03	-0.638625179	15
-0.645142033	12	7.08E+01	-0.267563518	12
-0.197880166	129	1.07E+03	0.473218026	129

0.977336857	3	1.13E-02	0.23616282	3
0	5	2.81E-01	-0.010805234	5
-0.333733375	5	1.37E+00	-0.33327951	5
-0.101731711	8	4.50E-01	-0.377033877	8
-0.456179144	6	3.08E+00	-0.47931639	6
-0.336332449	4	1.20E+00	-0.372830533	4
-0.513276093	5	3.22E+00	-0.56318062	5
-0.332723948	10	2.85E+00	-1	10
-0.145497804	4	5.47E-01	-0.109150623	4
0.168947965	5	1.26E-01	-0.112363509	5
-0.066052328	3	4.07E-01	-0.051795927	3
-0.047654186	18	2.11E-01	-0.187641973	18
-0.252705846	24	5.66E+00	0.000886429	24
-1	15	7.60E+04	-0.05076231	15
-0.25869342	18	3.47E+00	0.902666109	18
-0.468507906	8	5.29E+00	-0.27891077	8
-0.112617085	2	4.76E-01	-0.073293252	2
0	10	1.97E-01	0.003200357	10
0	2	3.48E-01	0	2
-0.075639561	18	3.06E-01	-0.057270994	18
-0.32250164	3	9.82E-01	-0.324417418	3
-0.739538997	3	4.12E+00	-0.467445537	3
-0.132242862	1	4.94E-01	0.004746711	1
-0.499343755	3	1.80E+00	0.017942049	3
0.656673699	4	2.05E-02	-0.252066051	4
-0.002994581	3	3.27E-01	-0.521261482	3
-0.088204085	6	4.22E-01	-0.134911133	6
0.299730642	10	1.78E-02	-0.043490343	10
-0.311222986	12	3.13E+00	-0.296013849	12
-0.260643408	9	1.45E+00	0	9
-0.255044932	4	8.57E-01	-0.018900496	4
-0.582828259	3	2.40E+00	-0.19264044	3
-0.13521095	2	5.07E-01	-0.111638217	2
-0.040558665	2	3.89E-01	-0.033846267	2
-0.069306743	1	4.32E-01	-0.03884784	1
-1	2	1.39E+01	-0.283956898	2
-1	4	1.07E+02	-0.361217453	4
-0.12148499	4	4.96E-01	-0.252185041	4
0	2	3.48E-01	0	2
0	3	3.24E-01	-0.01026231	3
-0.40287092	7	2.80E+00	-0.114847086	7
-0.213787084	6	8.32E-01	0.084373892	6
-0.070924233	7	3.75E-01	0	7
0	4	3.02E-01	-0.057491233	4
-0.099661144	7	4.46E-01	-1	7
-0.686205904	12	1.04E+02	-1	12
-0.203540977	4	6.94E-01	-0.13526938	4

-0.010646571	9	2.29E-01	-0.004594693	9
-0.808474184	13	5.15E+02	-0.287946687	13
-0.03995267	9	2.84E-01	0	9
-0.042551937	18	1.97E-01	0.037751225	18
-0.064274051	13	3.03E-01	0.024814997	13
-0.144358061	9	6.14E-01	-0.16184886	9
-0.306177726	5	1.20E+00	-0.399687484	5
-0.455482193	28	4.61E+02	-0.636890176	28
-0.310822296	5	1.23E+00	-0.409109078	5
-0.286936254	5	1.10E+00	-0.411518341	5
-1	9	3.92E+03	-1	9
-0.021203523	19	1.40E-01	0.009471029	19
0	5	2.81E-01	0.04511672	5
0.111316771	14	4.54E-02	-0.011206941	14
-0.069488782	11	3.36E-01	-0.040912896	11
0.157968015	30	1.70E-03	0.022888796	30
-0.854006991	16	3.52E+03	-1	16
-0.687899427	9	3.37E+01	-0.460761316	9
-0.425950949	5	2.13E+00	-0.04081947	5
-0.235687531	8	1.11E+00	-0.073389684	8
-0.050438043	9	3.07E-01	-0.177735207	9
-0.605756109	3	2.60E+00	-0.433873959	3
-0.943217697	7	7.41E+01	-0.707844257	7
0	6	2.62E-01	-0.001597696	6
-0.331594822	4	1.17E+00	-0.268079303	4
0.034415397	7	1.98E-01	-0.161372176	7
-0.219052375	7	9.20E-01	0.015019359	7
0	5	2.81E-01	0.056096227	5
0	6	2.62E-01	0	6
-0.050917881	6	3.45E-01	-0.130714507	6
0.21722735	9	4.27E-02	-0.387938119	9
-0.299624807	3	9.07E-01	-0.471340047	3
-0.445425611	7	3.63E+00	-0.287142959	7
-0.343100494	8	2.28E+00	-0.221010322	8
-0.287784309	6	1.24E+00	-0.181293716	6
-0.36585054	3	1.14E+00	-0.264493924	3
0.471031314	3	6.41E-02	-0.106819104	3
-2	3	6.00E+01	-0.65478925	3
-0.494246063	8	6.28E+00	-0.584322199	8
-0.274298143	11	1.99E+00	0.704635277	11
-0.448252418	9	5.77E+00	-0.23193033	9
-0.017036572	1	3.87E-01	-0.025869698	1
-0.8018782	7	3.15E+01	0.051458116	7
-0.353049948	37	2.57E+02	1	37
-0.392300715	12	6.68E+00	2	12
-0.40574592	74	1.36E+06	-0.481628621	74
-1	2	1.67E+01	-0.800780661	2

-0.344150749	11	3.65E+00	-0.34967026	11
-0.738340128	27	8.30E+04	-0.773298396	27
-0.54718065	2	1.59E+00	-0.505880439	2
0.067370133	14	7.26E-02	0.146528009	14
2	9	2.70E-06	0.494602112	9
2	9	1.77E-06	0.509758761	9
-0.142789178	5	5.54E-01	0.5201752	5
-0.024731432	3	3.53E-01	0.759847742	3
-0.034094609	12	2.36E-01	1	12
0.011710163	9	1.94E-01	0.589585704	9
-0.101388615	8	4.49E-01	-0.064567121	8
0	13	1.60E-01	0	13
0	1	3.73E-01	0	1
0	13	1.60E-01	0	13
0	1	3.73E-01	-0.021597727	1
-0.441910317	10	6.85E+00	-0.516223158	10
-0.254013342	5	9.39E-01	-0.096851757	5
0.005446707	7	2.36E-01	-0.359831343	7
-0.159342629	5	5.99E-01	-0.209914605	5
-0.14502074	10	6.32E-01	-1	10
-1	11	1.83E+03	-0.544146747	11
-0.079769642	3	4.26E-01	-0.135456904	3
-0.991290701	6	5.56E+01	-0.497293306	6
-0.941404903	7	7.33E+01	-0.615455727	7
0	1	3.73E-01	0.005769417	1
0.068940539	18	4.49E-02	1	18
0.700655567	5	1.01E-02	0.579741622	5
-0.095120478	3	4.49E-01	-0.015127665	3
-0.49875561	6	3.88E+00	0.861557567	6
0.063474069	2	2.91E-01	0.02150815	2
-0.545734208	6	5.00E+00	-0.59356444	6
-0.028545799	4	3.39E-01	-0.035101476	4
2	13	4.53E-09	-0.819744693	13
-0.123524731	6	5.11E-01	-0.145669745	6
-0.344822647	5	1.45E+00	0.434198821	5
-0.436878092	12	1.01E+01	-0.326854497	12
-0.596347589	7	9.06E+00	-0.583056324	7
-0.403817039	7	2.82E+00	-0.218163688	7
-1	11	2.49E+03	-0.85500542	11
0.119513598	14	4.16E-02	-0.148721567	14
0.335520094	224	1.28E-29	-0.10651319	224
0.548010591	4	3.20E-02	-0.115792911	4
-0.372432096	5	1.65E+00	-0.475492632	5
-0.205722604	5	7.47E-01	-0.401793774	5
-0.228729521	3	7.11E-01	0	3
-0.159556334	10	7.10E-01	-0.166987971	10
-0.427055478	1	9.26E-01	-0.038248818	1

-0.51287437	8	7.12E+00	-0.419476259	8
-0.323662759	5	1.31E+00	-0.631293838	5
-0.517250044	4	2.51E+00	-1	4
0.015311421	14	1.26E-01	0.119500959	14
-0.072174444	26	2.42E-01	-0.082522867	26
-0.936153011	36	4.87E+08	-0.581191629	36
-2	4	2.98E+02	-1	4
-0.362863219	7	2.20E+00	-0.428453323	7
-1	5	9.67E+01	-0.273528684	5
-0.748079339	2	2.79E+00	-0.429805966	2
1	15	2.54E-07	0.389186149	15
0.000587419	3	3.23E-01	-0.042371913	3
-1	7	2.77E+02	-0.399915368	7
0.847294979	5	5.03E-03	-0.064773807	5
0.402132505	3	8.13E-02	0.38161756	3
0.425182689	7	1.86E-02	0.521039574	7
0.784207104	6	3.78E-03	0.313525697	6
0.054259872	13	9.28E-02	0.009701509	13
-0.058663633	8	3.37E-01	0.008343314	8
0.062983067	14	7.60E-02	0.18673719	14
2	6	3.42E-05	2	6
-0.254158127	12	1.84E+00	0.03005879	12
0.138100236	18	1.79E-02	0.019253114	18
-1	2	6.70E+00	-0.764550775	2
-0.256687297	22	4.99E+00	-0.389530391	22
1	10	1.26E-06	-0.645861854	10
0.269319745	7	4.77E-02	0.038042915	7
-0.436451125	23	1.08E+02	-0.350625715	23
-0.480491312	60	1.87E+06	-0.749296192	60
-1	11	2.72E+04	-0.955896473	11
-0.676685632	13	1.38E+02	-2	13
-0.425532188	12	9.11E+00	-1	12
-0.046860463	8	3.11E-01	0.087688251	8
-0.064939914	1	4.28E-01	0.106036701	1
-0.000785803	25	6.92E-02	-0.147186823	25
0.590939676	17	6.96E-05	1	17
0.034552258	3	2.88E-01	0.273991413	3
-0.376300279	15	9.75E+00	-0.861628903	15
-0.319600228	38	1.25E+02	-0.336704257	38
-0.066260438	10	3.36E-01	-0.615843095	10
-0.346576932	9	2.73E+00	-0.254979686	9
-0.001089132	4	3.03E-01	-0.000456625	4
-0.097570089	6	4.44E-01	-0.5496236	6
-0.464678583	36	3.59E+03	0.123983911	36
-2	6	1.58E+03	-1	6
-0.037165851	7	3.06E-01	-0.005134092	7
-0.55180118	12	2.96E+01	-1	12

-0.332857078	14	5.15E+00	-0.324138062	14
-0.061211119	2	4.12E-01	-0.151305388	2
0.02728659	9	1.73E-01	-0.353168617	9
-0.060971596	4	3.87E-01	-0.385036191	4
-0.066023379	2	4.18E-01	-0.100809199	2
0	8	2.27E-01	0	8
0.727334134	8	1.72E-03	-0.024022827	8
-0.271010728	6	1.13E+00	-0.163358904	6
-0.127342614	4	5.08E-01	-0.078666234	4
0.046760592	6	2.03E-01	-0.149842118	6
0	5	2.81E-01	0	5
-0.717909595	5	8.50E+00	-0.075303739	5
-0.842157005	7	4.02E+01	0.11949383	7
-0.324377284	15	5.42E+00	0.249586314	15
-0.0021996	7	2.47E-01	0.00207679	7
0.341690528	11	9.47E-03	-0.345971033	11
0.054579559	1	3.32E-01	0	1
-0.039543129	4	3.55E-01	0.1389693	4
-0.629416099	8	1.56E+01	-0.059618295	8
-0.197073709	25	2.30E+00	0.182226202	25
0.042228163	6	2.09E-01	0.224028024	6
-0.688051974	4	5.05E+00	-0.33623937	4
0.211512021	23	2.37E-03	0.790244868	23
-0.070880951	11	3.40E-01	-0.452740343	11
0.427355693	12	3.17E-03	-1	12
-0.305582008	13	3.38E+00	-0.391348102	13
-0.155944869	8	6.48E-01	-0.374158053	8
-0.04876942	5	3.54E-01	-0.050153726	5
0.0163717	10	1.73E-01	-0.394610324	10
-0.350986368	9	2.82E+00	-0.774632812	9
0.427128871	13	2.24E-03	-0.360718879	13
-0.110173001	10	4.78E-01	-0.198677015	10
-2	13	2.82E+06	-0.803832328	13
-0.654911423	3	3.08E+00	-0.592931731	3
-0.970093757	3	9.10E+00	-0.298821705	3
-0.17393028	10	7.97E-01	-0.154372043	10
-1	13	7.08E+03	-1	13
-0.3933612	6	2.20E+00	-0.688567545	6
-0.765227882	4	6.92E+00	-0.482807337	4
-0.551703766	9	1.24E+01	0.071946356	9
-0.478981557	10	9.22E+00	-0.710720067	10
-0.022024189	4	3.30E-01	-0.021130791	4
-0.782748278	12	2.56E+02	-0.682529027	12
-1	9	1.30E+03	-0.274039341	9
-0.722727712	10	6.52E+01	-0.408105022	10
-0.69389223	18	1.12E+03	-0.736245557	18
-0.066598242	4	3.96E-01	-0.310401017	4

-0.106278634	13	4.62E-01	-0.075878568	13
-0.088105936	10	4.00E-01	-0.655493418	10
-0.907276128	14	2.33E+03	-0.513733466	14
0.417574992	10	6.91E-03	-0.463092408	10
-0.31139476	4	1.08E+00	-0.158625447	4
-0.296796234	4	1.02E+00	-0.009263435	4
-0.492830519	8	6.22E+00	-0.98724406	8
0	1	3.73E-01	0	1
-0.820281748	4	8.67E+00	-0.150524545	4
-0.027548747	5	3.20E-01	-0.376562731	5
-0.316412758	4	1.10E+00	-0.040702745	4
-1	8	1.22E+03	-0.632243146	8
0.117165639	6	1.39E-01	-0.536728415	6
-0.623780573	6	7.63E+00	-0.882484925	6
-2	12	8.67E+05	-1	12
-0.129794189	12	5.76E-01	-0.576387734	12
-0.168782794	7	6.79E-01	-0.191222243	7
-0.538592552	9	1.12E+01	-0.839115103	9
-0.413720226	8	3.66E+00	-0.196189046	8
-2	7	2.86E+03	-2	7
0.137544251	7	1.06E-01	-0.39767242	7
-0.016516008	4	3.23E-01	0	4
-2	4	3.14E+02	-0.424574036	4
-0.026049176	11	2.31E-01	-0.315364848	11
-1	8	3.65E+02	-0.530322781	8
-0.018017448	3	3.45E-01	-0.24872864	3
-0.105153266	5	4.63E-01	-0.45736703	5
-0.008412751	2	3.56E-01	-0.124177255	2
-0.364510695	13	6.09E+00	-0.891395393	13
-0.223240046	2	6.47E-01	-0.014104339	2
-0.520707023	6	4.37E+00	-0.411872529	6
-0.342265688	11	3.59E+00	-0.859287071	11
-0.409789442	3	1.33E+00	-0.3880645	3
0	6	2.62E-01	-0.311366476	6
-1	3	1.11E+01	-0.849432563	3
-0.500571256	3	1.81E+00	-0.122175177	3
-0.566299472	15	8.35E+01	-1	15
-0.085884545	6	4.17E-01	-0.24967117	6
-2	4	1.50E+02	-0.562979229	4
-0.748209823	14	4.29E+02	-0.342095746	14
-0.507763514	8	6.88E+00	-0.505786327	8
-0.197955841	4	6.79E-01	-0.557067486	4
-0.506020864	7	5.24E+00	-0.865148992	7
0.498974174	5	2.63E-02	-0.272192283	5
-0.379086621	6	2.03E+00	-0.177482582	6
-0.139513631	2	5.13E-01	-0.144306807	2
-0.256417443	14	2.28E+00	-0.652279908	14

-0.527991711	5	3.45E+00	-0.351496207	5
-0.40707128	11	6.30E+00	-1	11
-1	7	4.93E+02	-2	7
-1	5	1.20E+02	-1	5
-2	2	1.56E+02	-1	2
-0.536411822	7	6.30E+00	0.03822424	7
-0.427055478	3	1.41E+00	-0.562017441	3
-0.115394748	4	4.84E-01	-0.122211342	4
-0.780219911	17	2.26E+03	-0.947853304	17
-0.024412392	4	3.34E-01	-0.004984706	4
-0.229752832	4	7.73E-01	-0.076604731	4
-0.437041284	8	4.28E+00	-0.144980846	8
-0.331540561	9	2.44E+00	0.098908891	9
-0.35562867	13	5.58E+00	-0.159314279	13
-0.174135822	11	8.34E-01	-0.181466559	11
-0.651736894	12	7.53E+01	-0.915406497	12
-0.866146189	39	3.74E+08	-0.660816951	39
0.65589048	20	6.83E-06	-0.762671696	20
0.135697928	9	7.79E-02	0.187285868	9
-0.42523812	13	1.12E+01	0.139400065	13
-0.483899162	19	8.81E+01	0.596840337	19
-0.67291695	14	1.92E+02	-0.563229401	14
-0.157105569	4	5.74E-01	0.160008446	4
0.052716184	8	1.60E-01	0.064289753	8
0.054579559	1	3.32E-01	0.014645935	1
-0.183808119	5	6.73E-01	0.200435484	5
-0.773801666	2	2.99E+00	-0.096350096	2
-1	3	1.05E+01	-1	3
-0.863481763	3	6.31E+00	-2	3
0.065127731	1	3.25E-01	-0.351125328	1
-1	7	1.10E+03	-0.979709999	7
-0.230154866	2	6.60E-01	-0.399642124	2
0.204439055	3	1.60E-01	-0.10809192	3
0.273340201	27	3.14E-04	0.900915884	27
-1	12	3.66E+04	-1	12
-2	5	1.58E+03	-0.962109778	5
-0.875709829	8	8.14E+01	-0.451710937	8
-0.489584331	3	1.74E+00	-0.152791751	3
-0.286386549	12	2.48E+00	-0.538143801	12
-1	26	1.85E+07	-0.957139143	26
-0.247671112	5	9.12E-01	0.905347749	5
-1	19	3.06E+07	-0.931484562	19
-0.81260041	4	8.40E+00	-0.81645852	4
-0.048998223	7	3.28E-01	-0.071001142	7
0	9	2.12E-01	-0.002707618	9
0	9	2.12E-01	0	9
-0.006476918	6	2.71E-01	-0.057082341	6

0.108420216	10	8.27E-02	0.105416974	10
1	13	6.02E-08	0.656808565	13
0.043510135	1	3.40E-01	0	1
-0.123205054	5	5.05E-01	-0.339953454	5
0.602236734	1	1.04E-01	-0.662478308	1
0.61773857	4	2.41E-02	-0.774648299	4
-0.017527955	3	3.44E-01	-0.00736671	3
0	5	2.81E-01	0.108751471	5
-0.689839784	9	3.42E+01	2	9
-0.272024044	5	1.02E+00	0.96051787	5
-0.191266522	9	8.67E-01	-0.597590022	9
0.59018443	10	1.73E-03	-0.6070273	10
-0.036370132	5	3.34E-01	-0.057104828	5
-0.129483059	3	5.06E-01	-0.048718756	3
-0.738754904	7	2.15E+01	-0.133183313	7
-0.019485042	2	3.67E-01	-0.030652116	2
0.286267823	5	7.22E-02	0.167024103	5
-0.019030431	2	3.67E-01	-0.007959545	2
-0.12999239	6	5.29E-01	-0.675484541	6
-0.568547128	11	2.56E+01	-0.399280446	11
-0.198013132	12	1.09E+00	-0.195942823	12
0.820622718	3	1.93E-02	-0.156775753	3
0.384139732	6	3.29E-02	-0.346592172	6
-0.729131193	9	4.57E+01	-1	9
-0.298930577	2	7.99E-01	-0.552008448	2
-0.004948672	5	2.88E-01	-0.056607541	5
-0.253948467	7	1.14E+00	0.386056605	7
-0.03870328	33	9.47E-02	0.715672835	33
-0.005502899	26	7.04E-02	2	26
0.026081112	22	5.58E-02	0.166232194	22
-0.168852989	7	6.79E-01	-0.278750094	7
-1	4	8.64E+01	-0.368033183	4
-0.031532542	10	2.54E-01	-0.206602202	10
-0.020587232	18	1.47E-01	-0.073833187	18
-0.921074446	4	1.31E+01	-0.563633697	4
-0.009692727	34	4.54E-02	0.01551998	34
0.009985291	1	3.65E-01	-0.00023277	1
-0.324726687	19	9.60E+00	0.216805097	19
-3	3	2.50E+03	0.454977788	3
-0.346448427	13	5.09E+00	0.296559118	13
0.180952648	18	1.01E-02	0.341273301	18
-0.322775219	12	3.49E+00	-0.243375419	12
-0.508447324	16	5.64E+01	-0.467105076	16
0	7	2.44E-01	-0.001691715	7
-0.773951929	8	4.11E+01	-0.656931391	8
-0.008019726	3	3.33E-01	-0.009543818	3
-0.351438624	6	1.75E+00	-0.033869554	6

-0.926636249	3	7.84E+00	-0.421276723	3
-0.71960078	11	9.50E+01	-1	11
-0.092732109	98	1.72E-01	0.158472923	98
-1	6	7.55E+01	0.368132363	6
0.894243989	8	5.61E-04	0.32587784	8
0.000138681	4	3.02E-01	0.000870519	4
-0.371272032	3	1.16E+00	0.115916471	3
0.135007096	2	2.39E-01	0.146775681	2
0.73358048	5	8.63E-03	-0.278483185	5
0.377065659	6	3.41E-02	-0.241820807	6
0.703697852	7	3.43E-03	-0.196015534	7
1	14	4.68E-07	-0.299796715	14
0.516723477	16	2.67E-04	-0.364293369	16
0.867150292	12	5.22E-05	-0.381644325	12
2	9	1.89E-07	-0.360178563	9
0.287216941	6	5.55E-02	-0.47893661	6
-1	11	3.67E+03	-0.864251172	11
-0.076887765	7	3.89E-01	-1	7
-1	6	1.87E+02	-1	6
0.081241662	6	1.69E-01	0.284259141	6
0.223292202	12	2.13E-02	0.94938639	12
0.447808427	9	7.81E-03	-0.076844467	9
0.623153771	8	3.46E-03	-0.168073392	8
0.234443996	7	5.89E-02	-0.239726825	7
-0.214844194	7	8.97E-01	-0.28556832	7
-0.188249425	6	7.25E-01	-0.033434594	6
-0.198377607	2	6.04E-01	-0.049901839	2
-0.335049925	18	9.55E+00	0.758016871	18
-0.237932551	42	2.03E+01	-0.036585482	42
-0.305651584	47	2.77E+02	-0.101140272	47
-0.29906817	16	4.61E+00	0.339839035	16
-0.127533566	20	6.24E-01	-0.139667217	20
-0.325090251	19	9.65E+00	-0.018451626	19
-1	13	3.55E+05	-1	13
0.385898208	6	3.25E-02	-0.478493988	6
-0.039221142	1	4.06E-01	0	1
-2	3	8.54E+01	-0.389092023	3
-2	3	3.65E+02	-1	3
-0.754843628	4	6.63E+00	-0.446169948	4
-0.643446487	2	2.08E+00	-0.336513838	2
-0.261951693	12	1.98E+00	-0.669097125	12
0.275740214	44	4.17E-06	-0.224307066	44
0	2	3.48E-01	0	2
1	4	8.39E-04	-1	4
-0.634756807	8	1.61E+01	-0.412381449	8
-0.621695308	2	1.96E+00	-0.074392438	2
-0.314668221	11	2.82E+00	-0.744106923	11

-0.555376241	7	7.06E+00	-0.346991676	7
-0.255511559	8	1.26E+00	-0.337127834	8
-0.205856749	6	7.97E-01	-0.306945186	6
-0.53315997	8	8.16E+00	-0.407255144	8
-0.897630557	8	9.43E+01	-0.311910112	8
-1	11	6.74E+03	-1	11
-0.736364257	8	3.19E+01	-0.502063816	8
-0.671613937	11	6.26E+01	-0.672651021	11
-0.045800461	9	2.97E-01	-0.968535362	9
1	4	4.62E-03	-0.116719453	4
-0.164551956	3	5.70E-01	-0.177563878	3
0.92496077	18	5.23E-07	0.67914548	18
-0.072471264	82	6.60E-02	0.099212429	82
-0.883486362	4	1.12E+01	-0.958936007	4
0.096929439	10	9.07E-02	-0.235802463	10
0	2	3.48E-01	-0.009760858	2
0	3	3.24E-01	0.010175211	3
-0.393086237	9	3.84E+00	-0.252621357	9
-0.422658572	5	2.09E+00	-0.195313832	5
-0.280465137	6	1.19E+00	-0.776411967	6
-0.962916262	8	1.46E+02	-0.529637857	8
0.827437243	6	2.99E-03	-2	6
-0.897196825	7	5.61E+01	-1	7
-0.488479524	5	2.86E+00	-0.267222178	5
0.3500574	7	2.93E-02	-0.250547682	7
0.069334947	6	1.80E-01	-0.4565168	6
-0.041747498	5	3.43E-01	-0.232771999	5
-0.725292993	9	4.44E+01	-0.836961474	9
0.04715391	13	9.96E-02	-0.74288754	13
-0.115087461	5	4.86E-01	0.081794872	5
-0.096945488	3	4.52E-01	-0.040191515	3
-0.384470802	10	4.32E+00	-0.857821505	10
-0.291933637	9	1.82E+00	-0.34718243	9
-0.945644379	13	2.03E+03	-0.592398505	13
-0.747644768	14	4.26E+02	-0.490753823	14
-0.495686465	9	8.18E+00	-1	9
-0.65809461	8	1.89E+01	-0.363020602	8
0.024775962	14	1.14E-01	-0.433917739	14
-0.449301113	11	9.09E+00	0.040380681	11
0.400635932	14	2.09E-03	0.388415121	14
0.740716818	5	8.34E-03	0.547709433	5
0.196716788	19	6.74E-03	0.967585633	19
0.214922443	10	3.52E-02	0.183246713	10
0.076650866	20	3.18E-02	-1	20
0.0553009	16	6.66E-02	-0.483872048	16
2	2	5.23E-03	1	2
-0.510630644	22	2.82E+02	0.221626965	22

0.657132896	33	9.89E-09	-0.031020534	33
0.369506072	6	3.56E-02	0.324976341	6
1	17	5.66E-08	0.828352867	17
-1	8	1.97E+03	-0.352544871	8
0.820116108	5	5.72E-03	0.351208467	5
0.423362162	13	2.32E-03	-0.150149901	13
-0.088799306	6	4.23E-01	-0.175084365	6
-0.214984582	13	1.37E+00	0.332650937	13
0.001235634	16	1.27E-01	0.28733511	16
0	8	2.27E-01	0	8
-0.170081485	3	5.81E-01	-0.603604099	3
-0.405520824	11	6.22E+00	-0.254692383	11
-0.467577617	7	4.15E+00	-0.049115122	7
-0.047711714	8	3.13E-01	0.106599254	8
0	6	2.62E-01	-0.035854118	6
-1	9	4.05E+02	0.287055407	9
-0.56206711	5	4.06E+00	-0.081026145	5
-2	4	1.62E+02	-0.452613911	4
-1	5	6.52E+01	-0.341952436	5
-0.901630863	3	7.19E+00	-0.302751329	3
-0.379732176	11	4.97E+00	1	11
-0.542783233	4	2.78E+00	0.184599941	4
-0.048505515	3	3.83E-01	-0.245593092	3
-0.029757613	8	2.78E-01	0.027269163	8
-0.131283959	5	5.24E-01	0.113854619	5
-0.153824273	22	9.73E-01	0.059116926	22
0	4	3.02E-01	0	4
-0.044145033	31	1.17E-01	0.067546715	31
-0.494724677	8	6.30E+00	0.069180884	8
-0.063959938	16	2.77E-01	0.00207382	16
0.43243933	5	3.61E-02	0.133090216	5
-1	5	5.11E+01	1	5
-0.356229897	3	1.10E+00	0.211632416	3
-0.687904718	9	3.37E+01	-0.756904557	9
-0.42722988	2	1.14E+00	-0.305918946	2
-0.059667462	16	2.63E-01	0.038562153	16
0	1	3.73E-01	-0.005576288	1
-0.518614106	9	9.69E+00	-0.114700198	9
0.482295193	5	2.85E-02	0.067609286	5
0.041293406	10	1.42E-01	0.063207548	10
0.266182758	4	1.02E-01	0.390180087	4
-0.039170096	31	1.05E-01	0.003013094	31
-0.209240567	8	9.27E-01	-0.205199764	8
-0.286337242	6	1.23E+00	-0.439142031	6
-0.319320782	21	1.17E+01	-0.223450941	21
-0.18306412	14	1.04E+00	0.034396936	14
0.338717104	15	3.01E-03	0.278404631	15

0.180161832	6	9.89E-02	0.065976882	6
0	7	2.44E-01	0.068955374	7
0.160664587	15	2.25E-02	-0.01104129	15
0.055409685	6	1.94E-01	0.056247971	6
-0.043303474	39	8.17E-02	0.011287939	39
0	5	2.81E-01	0.019097189	5
-0.049224296	4	3.69E-01	-0.009494966	4
0	1	3.73E-01	0	1
-0.124737846	12	5.49E-01	-0.058974127	12
0.366210862	5	4.94E-02	0.578712199	5
-0.22674465	12	1.42E+00	-0.080734668	12
1	4	4.86E-03	0.362313324	4
-2	7	1.95E+05	-0.921587713	7
-0.18148052	15	1.08E+00	-0.090572619	15
-0.018634367	2	3.66E-01	-0.010057211	2
-0.1457739	2	5.22E-01	-0.029645283	2
-0.995779993	5	3.18E+01	-0.4072865	5
0.023179695	2	3.26E-01	-0.009753388	2
-0.154738967	130	2.70E+01	0.016263222	130
-0.428570212	30	4.11E+02	-0.313534659	30
-0.24114049	9	1.25E+00	0.023777777	9
-0.118587228	19	5.44E-01	0.28709139	19
-0.420457875	47	1.13E+04	-0.058978719	47
-1	15	6.61E+04	-0.256460797	15
-0.116608042	6	4.92E-01	-0.181595018	6
-0.07841538	19	3.11E-01	0.01219281	19
-0.040599294	11	2.62E-01	0.123415094	11
-0.063251737	28	1.93E-01	0.208506958	28
-0.977375758	9	2.85E+02	0.356360222	9
-0.058556526	3	3.96E-01	0.065214471	3
0.542872568	6	1.39E-02	0.483785661	6
0.406624775	10	7.55E-03	0.277309269	10
-0.047482197	3	3.81E-01	-0.008482369	3
-0.062084775	10	3.25E-01	0.08854069	10
-0.00559497	3	3.30E-01	0	3
-0.088056604	25	3.29E-01	-0.044569016	25
0.081052253	12	8.04E-02	0.290100887	12
-0.060476429	7	3.52E-01	0.001041931	7
-1	6	6.33E+02	-2	6
-0.9494262	9	2.32E+02	-1	9
-0.658740926	7	1.32E+01	-0.712063737	7
-0.498643433	3	1.80E+00	-0.630015852	3
-0.048862059	1	4.14E-01	0.002154215	1
-0.130812052	11	5.72E-01	0.091944354	11
-0.046610311	61	3.68E-02	0.004625897	61
-0.67518753	7	1.46E+01	-0.384362459	7
0	8	2.27E-01	0	8

-0.56443407	53	7.07E+06	-0.401262209	53
-0.171238557	5	6.34E-01	-0.216312041	5
-0.263491365	7	1.20E+00	-0.432341922	7
0.034106171	6	2.18E-01	-0.307948161	6
-1	3	3.99E+01	-0.684241573	3
-0.149544411	2	5.27E-01	0.219428562	2
-0.582433871	8	1.14E+01	-0.569129911	8
0.098140359	13	5.99E-02	0.227331253	13
2	6	2.35E-05	1	6
-0.209443433	6	8.12E-01	-0.31531766	6
-1	10	3.24E+04	-0.656440506	10
-0.360418067	19	1.58E+01	-0.117423778	19
-0.390904067	15	1.15E+01	-0.381686427	15
-0.99808759	62	8.90E+15	-0.531563021	62
-0.084406018	8	4.01E-01	-0.132537152	8
0	3	3.24E-01	-0.005444495	3
0	3	3.24E-01	-0.537847314	3
-1	4	5.88E+01	0.111053053	4
-0.873077844	2	3.95E+00	0.528056419	2
0	1	3.73E-01	0.644106455	1
-1	2	2.17E+01	0.942876652	2
-0.36968094	5	1.63E+00	-0.57756335	5
-0.957130585	9	2.45E+02	-1	9
-0.048237301	1	4.14E-01	-0.134930135	1
-0.01848251	5	3.07E-01	-0.007757117	5
0.014413987	2	3.34E-01	0.003802766	2
1	16	2.49E-08	1	16
0.445408967	1	1.45E-01	-0.010367715	1
-0.281508249	5	1.07E+00	-0.077870069	5
-0.781588969	6	1.79E+01	0.059318064	6
-0.730536552	9	4.62E+01	0.285828728	9
-0.044882177	15	2.30E-01	2	15
-0.547307453	14	5.05E+01	1	14
0.110869069	20	1.93E-02	0.154564122	20
-0.280156644	5	1.06E+00	-0.224732759	5
-1	14	1.99E+04	-1	14
-2	8	1.57E+04	-1	8
-0.514524004	21	2.30E+02	-0.342700653	21
-0.04815465	5	3.53E-01	0.033937304	5
-0.126326879	13	5.64E-01	0.60898808	13
0.069995738	19	3.94E-02	0.099165431	19
0	1	3.73E-01	0	1
-0.162708919	6	6.31E-01	-0.049580789	6
0.050606504	11	1.18E-01	0.008436982	11
-0.148015562	34	1.21E+00	0.002995178	34
0	1	3.73E-01	0	1
-0.778605887	1	1.96E+00	-0.653660647	1

-1	8	5.30E+02	-0.972460156	8
-0.467914457	3	1.62E+00	-2	3
-2	5	3.73E+02	-2	5
-0.064788452	1	4.28E-01	-0.067312285	1
-0.716623579	12	1.38E+02	-0.619679099	12
-0.500316535	12	1.83E+01	-0.013755936	12
0.005115364	3	3.18E-01	0.700216169	3
0.096532614	12	6.96E-02	0.2912549	12
-1	11	3.27E+04	2	11
-0.545896745	50	1.53E+06	2	50
-0.75950247	3	4.41E+00	0.055868571	3
0.317368595	14	5.07E-03	-0.371420703	14
-0.495477595	13	2.26E+01	-0.399180705	13
-0.50850186	12	1.98E+01	-0.443122709	12
-0.136232457	7	5.57E-01	-0.047982597	7
-0.116393729	6	4.91E-01	-0.038210105	6
-0.07334122	13	3.32E-01	-0.030694932	13
0	5	2.81E-01	0	5
-0.205928849	8	9.06E-01	-0.069718244	8
-0.34134924	7	1.93E+00	-0.160543083	7
-2	9	1.12E+06	-2	9
-0.131364856	4	5.17E-01	-0.480034808	4
-0.279795681	7	1.33E+00	-0.297295095	7
-2	9	5.85E+06	-0.442032167	9
0.280908469	31	9.80E-05	0.189181037	31
0.576714338	9	3.02E-03	4	9
-0.853085204	7	4.29E+01	0.816856855	7
-1	4	2.06E+01	1	4
-0.911423288	42	6.17E+09	1	42
-0.854386426	7	4.33E+01	2	7
-0.658294088	8	1.89E+01	0.469944584	8
0.192297418	12	2.84E-02	-0.637718573	12
-0.275666032	7	1.30E+00	0.014872314	7
-0.728819365	5	8.96E+00	-1	5
-0.893249597	26	9.67E+05	-0.718790967	26
-0.86775333	64	9.96E+13	-0.37363543	64
-0.343087309	6	1.67E+00	3	6
0.041274674	20	5.33E-02	-0.039035924	20
0.45822017	22	5.81E-05	0.038244548	22
0.734030637	7	2.86E-03	0.046670976	7
-0.225476784	13	1.52E+00	-0.213577372	13
-0.354489869	6	1.78E+00	-0.560003153	6
-2	21	2.39E+10	-1	21
-0.397993856	34	4.61E+02	0.853736429	34
-0.451309668	16	2.85E+01	0.801075166	16
-0.300768426	12	2.84E+00	-0.137340027	12
0.070067791	19	3.93E-02	0.001621398	19

0.272638661	29	1.93E-04	0.049210014	29
0.978602816	6	1.32E-03	-1	6
-0.312888185	66	4.49E+03	-0.28175824	66
-0.000558313	2	3.48E-01	-0.009355148	2
-0.008275281	6	2.74E-01	-0.110358523	6
0.356054689	9	1.54E-02	0.162480506	9
1	4	1.08E-03	0.605236302	4
0.01756554	8	2.02E-01	0.000932332	8
-0.01950334	20	1.29E-01	0.082149666	20
0.068627108	12	9.03E-02	0.002128647	12
-0.119318087	4	4.92E-01	0.138756628	4
-0.203793262	37	5.52E+00	-0.064564117	37
-0.098211648	18	4.12E-01	0.076046872	18
-0.298401083	55	5.95E+02	1	55
-0.026197531	24	1.15E-01	-0.099092289	24
0.039921641	115	5.43E-06	-0.184969952	115
0.028872113	4	2.68E-01	-1	4
-1	39	5.60E+11	-0.095828	39
-0.306198508	16	5.02E+00	-0.225441352	16
-0.214875068	11	1.19E+00	-0.103075751	11
0.258102983	9	3.16E-02	-0.120773281	9
-0.342824939	12	4.21E+00	0.084671848	12
0.016825373	8	2.03E-01	-0.083047341	8
0.156702691	2	2.25E-01	-0.034568226	2
-0.130554058	19	6.43E-01	-0.088162031	19
-0.03312911	20	1.58E-01	-0.024483638	20
0.157847921	7	9.38E-02	-0.460755781	7
-0.162621434	12	7.82E-01	-0.18556305	12
0.081343949	9	1.16E-01	0.124692906	9
0.36824068	5	4.89E-02	0.176999385	5
-0.416923714	6	2.49E+00	0.469721223	6
-0.118104871	15	5.26E-01	-0.233346073	15
0.429356633	9	8.95E-03	0.159965176	9
0.228232615	11	2.53E-02	0.646883559	11
-0.304744204	8	1.76E+00	0.165768727	8
-0.118197948	10	5.10E-01	-0.252191774	10
-0.02347414	1	3.92E-01	0.046380066	1
-0.299354342	6	1.32E+00	0.029297839	6
-0.095332707	2	4.53E-01	0.020057449	2
-0.837673034	10	1.64E+02	-0.271062041	10
-0.665471133	5	6.63E+00	0.228648053	5
0.47874025	25	1.32E-05	0.502162974	25
-0.155641755	13	7.56E-01	-0.167812861	13
-0.531314626	15	5.62E+01	-0.756452236	15
-0.687094779	6	1.07E+01	-0.418790884	6
0.045379609	15	8.29E-02	0.429400201	15
-0.133168726	4	5.21E-01	0.204644045	4

0.920494443	3	1.37E-02	0.884426804	3
-0.58708408	23	1.30E+03	1	23
-0.088307468	11	3.96E-01	-0.011549134	11
0	2	3.48E-01	0.005866143	2
0.004757712	27	5.41E-02	-0.135095882	27
-0.248594755	6	1.00E+00	-1	6
-0.156731245	2	5.38E-01	-0.115179848	2
0.197878103	16	1.21E-02	0.484007816	16
-0.229277223	10	1.24E+00	-0.137727962	10
-0.29537202	5	1.14E+00	0.932602112	5
-0.711948647	22	6.92E+03	1	22
-0.203312062	15	1.38E+00	0.167643832	15
0.699754549	7	3.51E-03	0.289286286	7
0.072104556	3	2.53E-01	0.015081145	3
-0.826191593	18	6.47E+03	-0.994269629	18
-0.069306743	1	4.32E-01	-0.708906087	1
-0.544409878	12	2.76E+01	-0.534880504	12
0.026803969	22	5.51E-02	0.277986284	22
-0.293605832	13	3.00E+00	-0.811442459	13
-0.473405461	8	5.46E+00	-1	8
-2	46	1.71E+20	-3	46
-0.223180871	8	1.02E+00	-0.038504749	8
-0.366810338	11	4.44E+00	-0.007258414	11
-0.405512059	138	3.54E+11	0.649752683	138
-2	13	3.18E+06	-0.724765496	13
-0.081960247	78	1.19E-01	1	78
-1	8	6.31E+02	-0.46660603	8
0.144571174	7	1.02E-01	-0.597454785	7
-0.348345627	6	1.72E+00	-0.405446922	6
-0.086458332	2	4.42E-01	-0.021976076	2
-0.155599219	17	8.56E-01	2	17
-0.134728938	7	5.52E-01	-0.000671626	7
-0.698301586	28	5.67E+04	-0.6403925	28
-0.616511265	13	7.56E+01	-0.475515316	13
-1	37	2.61E+11	-1	37
-0.538818312	7	6.39E+00	-0.661059455	7
-0.413493549	28	2.00E+02	-0.684539247	28
-0.947267526	14	3.57E+03	-0.148544961	14
-0.888544839	11	4.12E+02	-1	11
-1	5	2.20E+02	-1	5
0.892140274	5	4.06E-03	1	5
0.044539351	19	5.61E-02	0.134312866	19
0.208969837	5	1.04E-01	0.130271345	5
-0.328924609	47	5.87E+02	-0.240829944	47
-0.599387698	5	4.84E+00	-0.06713401	5
-0.426867425	5	2.13E+00	-0.094508078	5
-0.203200638	9	9.47E-01	-0.189844484	9

-0.263795088	7	1.21E+00	-0.454102881	7
-0.541896432	4	2.77E+00	-0.362583049	4
-1	10	2.08E+03	-0.27293106	10
-0.677634153	12	9.59E+01	-0.676027598	12
-0.206372323	8	9.09E-01	0.29864266	8
0.062067512	1	3.27E-01	0.02997019	1
-0.345753854	3	1.06E+00	-0.293867521	3
-0.312678302	10	2.43E+00	0.061715202	10
-1	7	1.07E+02	0.013169004	7
-0.455697969	10	7.65E+00	-0.510822672	10
-2	6	3.03E+03	-0.958050939	6
-1	7	1.66E+02	-1	7
-0.19951747	3	6.43E-01	-0.110443297	3
-1	4	3.44E+01	-0.706891456	4
-0.099798959	15	4.28E-01	-0.301929203	15
-0.627331986	7	1.09E+01	-0.288193653	7
0.264438407	6	6.27E-02	-0.190266342	6
-0.214362849	6	8.34E-01	-0.078215486	6
2	30	6.65E-17	-0.595147133	30
2	13	2.31E-09	-0.769089308	13
0.094003355	18	3.22E-02	-0.684077887	18
-2	8	3.03E+04	-1	8
0.45764585	4	4.64E-02	-0.52488768	4
-0.844548007	21	3.51E+04	-1	21
-0.498040723	11	1.39E+01	0.72428328	11
-0.234518999	9	1.19E+00	0.190587363	9
-1	12	8.17E+03	0.253550183	12
0.073929963	7	1.56E-01	0.030446218	7
0	1	3.73E-01	0	1
0.060782946	4	2.35E-01	-0.538895288	4
-2	5	3.23E+03	-1	5
-0.832712139	8	6.10E+01	-0.962484912	8
-0.440574383	6	2.83E+00	-0.763876125	6
-0.238394655	9	1.23E+00	-0.358172877	9
0.10665127	16	3.60E-02	-0.374401165	16
0.014665632	2	3.34E-01	0.009964284	2
-0.712260356	5	8.28E+00	-0.736270623	5
-0.313417688	10	2.44E+00	-0.630874998	10
-2	11	3.53E+05	0.184488985	11
-1	22	8.53E+06	-0.558505494	22
-0.000224674	8	2.28E-01	0.027059402	8
0.127967377	14	3.81E-02	-0.003413474	14
0.133325975	3	2.05E-01	-0.096853228	3
-0.038709307	14	2.25E-01	-0.331921594	14
-0.018801462	6	2.90E-01	-0.11745648	6
-0.270531931	4	9.13E-01	-0.004090665	4
-0.614541681	6	7.25E+00	0.002426212	6

-0.362087105	31	1.19E+02	-0.193361005	31
-0.354970632	7	2.10E+00	-0.129347141	7
-0.28168603	6	1.20E+00	-0.586096569	6
-0.668231586	54	4.38E+08	-0.800892162	54
-0.281136631	11	2.11E+00	-0.104045439	11
0.232340591	17	6.42E-03	0.718559244	17
-0.035822376	14	2.18E-01	-0.106066824	14
0.3846787	8	1.72E-02	-0.107956051	8
-0.074902597	43	1.76E-01	0.033452272	43
-1	16	2.82E+06	-2	16
-0.041479259	3	3.74E-01	-0.026333017	3
-0.622939823	14	1.13E+02	-0.139054718	14
-0.182081094	6	7.01E-01	-0.11191165	6
-0.282667567	7	1.35E+00	0.037433141	7
-0.49103992	6	3.72E+00	0.056845889	6
0.073322663	4	2.24E-01	0.014575566	4
0.405587604	3	8.03E-02	0.13239169	3
-0.292737041	4	1.00E+00	-0.004113942	4
-0.562745704	3	2.24E+00	-0.052595501	3
-0.280743772	4	9.52E-01	-0.29818408	4
-1	10	1.60E+03	-2	10
-2	16	1.75E+09	-1	16
-2	4	5.84E+02	-1	4
-0.381027131	4	1.44E+00	0.152659996	4
-0.492115893	4	2.26E+00	-0.164075216	4
-0.430713447	18	3.40E+01	-0.664656857	18
-1	8	3.25E+02	-0.766207619	8
-0.011779453	4	3.17E-01	0.008497693	4
-0.179116146	4	6.28E-01	0.038785549	4
0	2	3.48E-01	0.753833775	2
0	4	3.02E-01	0.650629736	4
-0.777180605	3	4.69E+00	-0.347454715	3
-0.227063643	7	9.66E-01	-0.089012747	7
-0.323439639	7	1.73E+00	-0.267491386	7
-0.079804764	5	4.11E-01	0.204074316	5
-0.22108888	11	1.25E+00	0.09033366	11
-0.12487088	15	5.68E-01	0.359641465	15
-0.024446396	18	1.55E-01	-0.380964385	18
-0.8329525	4	9.13E+00	-0.41402783	4
-0.77834535	7	2.73E+01	-0.437555467	7
-0.408650785	4	1.61E+00	-0.282220626	4
-0.791755554	16	1.67E+03	-0.900362429	16
-0.013607437	3	3.39E-01	-0.012095299	3
-0.456075422	5	2.45E+00	-0.004376505	5
-0.104422488	9	4.57E-01	2	9
-0.221964682	3	6.95E-01	0.136350003	3
0.02836595	17	8.41E-02	-0.232376237	17

-0.169561523	12	8.34E-01	-0.134283425	12
-2	9	1.61E+04	-0.345013852	9
-0.181068798	3	6.04E-01	-0.14836831	3
-2	3	2.23E+02	-0.584491172	3
-1	8	1.84E+03	-1	8
-0.733338561	9	4.71E+01	0.170095893	9
-0.818678768	2	3.39E+00	-0.138719289	2
-0.273531542	8	1.43E+00	0.101458676	8
0	3	3.24E-01	0.158506733	3
-0.618347809	12	5.51E+01	0.097010661	12
-0.002460724	4	3.05E-01	0.001358122	4
0.037700354	13	1.09E-01	0.138357945	13
0.071202599	1	3.21E-01	0.032470312	1
-0.112237336	13	4.90E-01	-0.366632835	13
-0.229092452	14	1.70E+00	0.031599199	14
-0.505304284	9	8.78E+00	0.036256082	9
0.050979387	3	2.72E-01	-0.042697201	3
0.14427964	4	1.67E-01	0.319988001	4
-0.394211182	14	9.89E+00	1	14
0.28174156	8	3.43E-02	0.146898602	8
-0.319542765	12	3.38E+00	-0.189122786	12
-0.19184589	4	6.62E-01	0.131691445	4
-0.574454329	33	2.25E+04	0.228789882	33
-0.201902228	17	1.54E+00	-0.110317438	17
-0.003861822	6	2.67E-01	-0.151481386	6
0.079721564	23	2.10E-02	-0.094654603	23
0	1	3.73E-01	0	1
-0.054188798	2	4.04E-01	-0.07413196	2
-0.562930036	14	5.96E+01	-0.694479292	14
0.1331557	9	7.94E-02	-0.020542681	9
0.583395369	9	2.87E-03	0.073709139	9
0.134053061	1	2.81E-01	-0.042443318	1
0.021767875	7	2.14E-01	-1	7
-0.217009556	4	7.34E-01	-0.249206425	4
-0.200155033	5	7.27E-01	-0.518584193	5
-0.797038625	4	7.88E+00	-3	4
0.023229398	1	3.55E-01	0	1
-0.553086391	3	2.17E+00	-0.144684806	3
-0.217553204	12	1.31E+00	-0.137653007	12
-1	3	3.34E+01	-0.720262669	3
-0.035069516	1	4.02E-01	-0.38631126	1
-0.054587034	3	3.91E-01	-0.106733133	3
-0.969119411	2	5.16E+00	-0.382435043	2
-0.097641155	6	4.44E-01	-0.363341632	6
0.249279287	25	7.96E-04	-0.232507057	25
-1	7	8.20E+02	-0.98980073	7
-0.278433617	6	1.18E+00	-0.329079842	6

-0.341226464	6	1.66E+00	-0.403838424	6
-0.494211232	38	1.25E+04	-0.11245018	38
-0.510260192	16	5.77E+01	-0.234794974	16
1	4	2.10E-03	-0.610307748	4
0.275444351	7	4.60E-02	0.06486414	7
-0.041314936	5	3.42E-01	-0.017508346	5
-0.73182687	6	1.37E+01	-0.429371883	6
-0.262439713	10	1.62E+00	-0.169087261	10
0.172356674	4	1.49E-01	-0.370419141	4
0.023229398	1	3.55E-01	-0.029233508	1
-0.288810122	3	8.74E-01	-0.260900833	3
-0.852867727	4	9.91E+00	-0.832176206	4
0	1	3.73E-01	0	1
-0.382720546	5	1.73E+00	-0.148504969	5
-0.214563926	15	1.57E+00	-0.53572105	15
-0.118187846	3	4.86E-01	-0.039936097	3
-0.559069198	6	5.38E+00	-0.00105986	6
-0.140246129	12	6.35E-01	-0.01207405	12
-0.402387213	35	6.21E+02	-0.227191034	35
-0.026802141	13	2.09E-01	0.021936208	13
-0.88337297	8	8.57E+01	-1	8
-0.289894387	8	1.59E+00	-0.174057783	8
0.188907325	13	2.42E-02	0.533582023	13
0	2	3.48E-01	0	2
0.06148209	4	2.35E-01	1	4
0.020507202	2	3.28E-01	-0.047731315	2
0	4	3.02E-01	-0.187097555	4
-0.251193638	5	9.27E-01	-0.225566633	5
-0.309508176	4	1.07E+00	-0.712330051	4
0	4	3.02E-01	-0.132171949	4
0.349632291	6	3.96E-02	-0.332235382	6
-0.025923029	1	3.94E-01	0	1
-0.234489755	13	1.66E+00	-0.764381637	13
-0.859580766	9	1.20E+02	-1	9
-0.937275386	5	2.41E+01	-0.933522248	5
-0.139894996	10	6.07E-01	-0.651003454	10
-0.707938192	2	2.49E+00	-0.258693632	2
-0.96562778	5	2.76E+01	-0.602686158	5
0.100071282	6	1.53E-01	-0.631141883	6
-0.748645719	6	1.50E+01	-0.577818041	6
-0.783574342	5	1.16E+01	-0.389198368	5
-0.046793666	2	3.96E-01	-0.030732728	2
-0.939101515	4	1.41E+01	-0.104387381	4
-3	3	1.72E+04	-2	3
-0.332842005	5	1.37E+00	-1	5
-1	2	1.16E+01	-0.648093274	2
-1	6	3.55E+02	-0.58913565	6

-0.098076962	42	3.52E-01	-0.099056613	42
-0.799002033	4	7.95E+00	-0.341358138	4
0.042534148	5	2.30E-01	-0.036952372	5
-0.821073553	11	2.29E+02	-0.705254066	11
0.418880508	57	6.11E-10	0.717817916	57
0.072646259	27	1.47E-02	-0.270732495	27
-0.349462621	14	6.14E+00	-0.238954538	14
-0.091244344	2	4.48E-01	-0.098626104	2
-0.916571891	11	5.25E+02	-1	11
-0.425885404	7	3.22E+00	-0.180478233	7
-0.805560647	7	3.22E+01	-0.793662678	7
-0.099481389	6	4.48E-01	-0.025145343	6
-0.68971802	8	2.33E+01	-0.518774576	8
-1	10	4.46E+03	-1	10
0.182642055	9	5.51E-02	-0.703851802	9
-0.991782155	11	1.01E+03	-2	11
-0.970382909	2	5.17E+00	-1	2
-0.040832442	1	4.07E-01	-0.008587802	1
-0.391097449	15	1.15E+01	-0.023556641	15
-0.81126751	9	8.37E+01	-0.780297587	9
-0.622897881	10	2.93E+01	0.077514302	10
-0.53385154	11	1.89E+01	0.254800155	11
-1	13	2.07E+04	0.023889358	13
0.449021489	8	1.11E-02	-0.537697499	8
-1	7	1.86E+03	-0.333089091	7
-0.790548451	12	2.75E+02	-0.108074699	12
-1	3	5.18E+01	-0.869030464	3
-0.335588009	4	1.19E+00	-0.157136533	4
-0.581048727	4	3.26E+00	-0.147321847	4
-0.791311502	7	2.95E+01	-0.264462749	7
-0.444599686	8	4.50E+00	-0.889561574	8
-0.373048123	4	1.39E+00	-0.734265954	4
0.302700674	5	6.68E-02	-0.029571966	5
-1	7	6.06E+02	-0.806881036	7
-0.206636901	7	8.54E-01	-0.86502421	7
-0.218519833	8	9.86E-01	-0.169302352	8
-0.003067082	8	2.32E-01	-0.319834389	8
-0.288464511	17	4.57E+00	-0.377396638	17
-0.623856234	8	1.50E+01	-0.228120407	8
-0.912945366	9	1.77E+02	-0.246650801	9
-0.032976781	3	3.63E-01	-0.192890371	3
0.031419361	3	2.91E-01	-0.399199129	3
-1	5	2.18E+02	-0.411173773	5
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0	9	2.12E-01	0	9
0	9	2.12E-01	-0.004654112	9
-0.507551368	8	6.87E+00	-2	8

-0.21424641	6	8.34E-01	-0.206115145	6
-0.143564658	17	7.35E-01	-0.525274324	17
-0.611533681	3	2.65E+00	-0.303127675	3
-0.455150408	3	1.55E+00	-0.690663989	3
-0.506758085	3	1.85E+00	-0.71454313	3
0.49799899	4	3.93E-02	-0.443048966	4
-0.598289254	3	2.53E+00	-0.56962684	3
0.853054285	2	3.24E-02	-0.174706953	2
2	13	1.33E-08	-1	13
0	4	3.02E-01	-0.056734609	4
-0.170122815	3	5.81E-01	-0.076633683	3
-0.014662847	2	3.62E-01	0	2
-0.26659118	5	9.97E-01	0	5
-0.278434817	3	8.44E-01	-0.007676157	3
-0.118686951	14	5.26E-01	0.180933253	14
-0.826972559	8	5.87E+01	-0.470036198	8
-0.272191586	7	1.27E+00	-0.1717301	7
-0.54241659	7	6.53E+00	0.103798192	7
-0.602313454	6	6.79E+00	-0.096979235	6
-0.301544318	4	1.04E+00	-0.478810565	4
-0.013631616	3	3.39E-01	-0.091940085	3
0.00622048	2	3.42E-01	-0.028411877	2
0	10	1.97E-01	0.013065793	10
0	8	2.27E-01	-0.036912772	8
-0.171600309	7	6.90E-01	0.005457357	7
1	120	1.07E-40	0.405142911	120
0.293637396	6	5.36E-02	-0.006908783	6
0.030169722	3	2.92E-01	-0.006466895	3
0	5	2.81E-01	0	5
-0.505480132	12	1.92E+01	-0.136489963	12
0.155412985	43	1.90E-04	0.037097689	43
-0.385845765	39	8.59E+02	0.507327131	39
-0.966767115	13	2.50E+03	-1	13
-1	14	1.73E+04	-0.698172022	14
-1	13	1.22E+04	-0.986204054	13
-0.006736183	4	3.10E-01	-0.059000302	4
-0.388470869	7	2.57E+00	-0.192188208	7
-0.429160846	2	1.15E+00	-0.117336083	2
-0.324485011	9	2.32E+00	-0.492957007	9
-0.701621775	15	3.85E+02	-0.389979818	15
-1	3	1.53E+01	-0.732680994	3
-0.198599712	18	1.56E+00	-0.233215571	18
-2	4	4.13E+03	-2	4
-0.001429235	3	3.26E-01	-0.015856835	3
-0.177811234	4	6.25E-01	-0.587810665	4
-0.010404424	4	3.15E-01	0.103516469	4
0.000683006	10	1.96E-01	0.089120371	10

-0.136716747	25	7.84E-01	-0.090768345	25
0.747924505	11	2.78E-04	1	11
0.042312514	33	1.46E-02	0.369610778	33
-0.053313765	7	3.37E-01	0.01056089	7
-0.366125053	5	1.60E+00	0.457252959	5
-0.035069516	1	4.02E-01	-0.00335575	1
-0.328156124	15	5.66E+00	-0.172979251	15
-0.882814989	3	6.74E+00	-0.444935192	3
0	1	3.73E-01	0	1
0	2	3.48E-01	0	2
0	7	2.44E-01	0	7
-0.587312545	3	2.44E+00	-0.73129137	3
-0.119917821	5	4.97E-01	-0.180613468	5
-2	7	2.38E+03	-0.067880201	7
-0.039602966	4	3.55E-01	-0.188490008	4
-0.200039536	3	6.44E-01	-0.463672415	3
-0.486068066	5	2.83E+00	0.542535639	5
-0.448637351	1	9.69E-01	0.494774312	1
-0.157417062	13	7.69E-01	0.12418764	13
0.45605626	11	3.51E-03	-0.184916106	11
-0.081878027	18	3.32E-01	-0.069884157	18
-0.23890648	7	1.04E+00	0.128049392	7
-0.18633977	30	2.46E+00	-0.133896726	30
-0.462717371	6	3.19E+00	-0.114967679	6
-0.159172799	11	7.32E-01	-0.119244776	11
-0.227421988	3	7.08E-01	-0.093125695	3
0	51	1.08E-02	0	51
0.196528647	8	6.08E-02	-0.145628892	8
-0.142255064	6	5.65E-01	-0.536923025	6
-0.192741851	6	7.42E-01	-0.524650308	6
-0.003817362	3	3.28E-01	-0.406580292	3
-0.019065099	26	9.05E-02	-0.004667053	26
-0.015608915	10	2.24E-01	0.045254956	10
-0.027039909	14	1.98E-01	-0.177468202	14
0	2	3.48E-01	0	2
0	2	3.48E-01	0.017196698	2
-0.132019315	8	5.52E-01	0.432873448	8
-0.063888447	1	4.28E-01	0.809997774	1
-0.35696386	5	1.53E+00	0.503622001	5
-0.922844759	5	2.25E+01	-0.03797251	5
-0.74941921	7	2.29E+01	-0.476712161	7
-0.428135733	7	3.27E+00	-0.355262017	7
-1	4	2.38E+01	-2	4
-0.198545671	6	7.66E-01	-0.265866634	6
-0.478421569	3	1.68E+00	0	3
0	1	3.73E-01	-0.006874326	1
0	4	3.02E-01	-0.093415086	4

-0.01974385	1	3.89E-01	-0.032702053	1
-0.080371297	3	4.27E-01	-1	3
-0.608602929	4	3.64E+00	-0.924403092	4
-0.337590548	4	1.20E+00	-0.098555185	4
0.079633065	13	7.20E-02	-0.931457668	13
-0.435641589	18	3.63E+01	-0.243780613	18
-0.057137605	4	3.81E-01	-0.163798822	4
-1	8	5.59E+02	-0.801803496	8
-0.386089411	4	1.47E+00	-1	4
-1	7	1.55E+03	-1	7
-2	12	1.32E+07	-0.947192096	12
0.117631638	4	1.86E-01	-0.02285241	4
0.684257433	10	8.13E-04	-0.606190548	10
0.178555773	18	1.05E-02	-0.674457624	18
-0.398118726	36	6.76E+02	-1	36
-0.724543088	12	1.49E+02	-1	12
-0.894043796	8	9.21E+01	-0.75709349	8
-0.799055041	12	2.98E+02	-0.860454787	12
-0.337575486	10	2.96E+00	-0.212598108	10
-0.628487926	6	7.82E+00	-0.416999034	6
-0.516017113	4	2.50E+00	-0.866277714	4
-0.327823734	2	8.66E-01	-0.428302272	2
-0.813014471	4	8.42E+00	-0.134073077	4
-0.594514252	4	3.44E+00	-0.131252519	4
-0.529919531	2	1.52E+00	-0.252905055	2
-1	18	4.43E+07	-1	18
-0.782826693	10	1.06E+02	-1	10
-0.956547454	3	8.68E+00	-0.649794244	3
-0.81179208	7	3.34E+01	-1	7
-2	7	4.85E+03	-1	7
-0.70896487	4	5.50E+00	-1	4
-0.683474072	4	4.95E+00	-0.220425667	4
-1	6	3.92E+02	-0.413552624	6
-0.120298739	4	4.94E-01	-0.473212894	4
2	7	1.36E-06	-0.637912709	7
2	6	1.92E-06	-0.574504518	6
-0.156822305	1	5.21E-01	-0.029445364	1
-2	4	4.72E+02	-0.648847422	4
-2	16	1.94E+08	-0.531067625	16
-0.183585432	7	7.42E-01	-0.881373558	7
-1	7	5.73E+02	-0.43146133	7
-1	55	3.43E+20	-0.616832142	55
-0.506193622	6	4.04E+00	-0.999135405	6
-0.834808296	9	9.96E+01	-0.447984207	9
-1	14	1.35E+04	-0.562373502	14
-0.372838442	3	1.17E+00	-1	3
-2	4	3.52E+02	-0.621565477	4

-0.73159804	9	4.65E+01	-1	9
-0.91986734	6	3.78E+01	-1	6
-1	4	3.79E+01	-0.635992031	4
-0.044267119	9	2.94E-01	-1	9
-2	21	9.66E+09	-1	21
-0.998361832	8	1.86E+02	-1	8
0	1	3.73E-01	0	1
-1	6	1.51E+02	-0.758571046	6
-0.467225455	4	2.04E+00	-0.530977223	4
-0.644644393	4	4.22E+00	-0.432126705	4
-0.99475373	6	5.66E+01	-0.834356736	6
-0.858450128	5	1.66E+01	-0.843999672	5
-1	13	6.71E+03	-0.83389641	13
-0.962371492	5	2.72E+01	-0.694703317	5
-0.754773433	5	1.01E+01	-1	5
-0.017500866	7	2.71E-01	-0.496247817	7
-0.324410749	3	9.88E-01	-0.779651412	3
-1	5	1.96E+02	-0.85989192	5
2	10	1.29E-08	-0.701908197	10
0.227402226	6	7.66E-02	-0.604985984	6
-2	12	1.95E+07	-2	12
-0.29919367	13	3.17E+00	-0.693460241	13
-0.766811715	11	1.43E+02	-0.766503334	11
-0.079245285	6	4.02E-01	-0.371501509	6
-0.786844802	7	2.87E+01	-0.39814746	7
0.062894331	4	2.33E-01	-0.238545257	4
-0.103405484	5	4.59E-01	0.054861486	5
-1	10	3.00E+03	-0.626278254	10
-0.653062172	3	3.06E+00	-0.410169734	3
-0.500868087	3	1.81E+00	-1	3
-0.367828409	3	1.15E+00	-0.073345396	3
-0.940025844	4	1.42E+01	-1	4
-0.264347681	12	2.02E+00	-0.279796269	12
-0.009075393	4	3.13E-01	-0.13414105	4
-0.440242765	9	5.44E+00	-0.047045601	9
0.666164511	19	9.77E-06	-0.128314141	19
1	8	2.78E-05	-0.1225176	8
0.977416891	13	9.15E-06	-0.085377912	13
-0.061313804	4	3.88E-01	-0.002785538	4
0.813094516	11	1.58E-04	-0.416046772	11
0.762645709	5	7.52E-03	0.227908633	5
-0.243431614	6	9.76E-01	-0.001813571	6
-0.537466722	2	1.55E+00	0.207333831	2
-0.543718772	9	1.17E+01	-0.470561087	9
-0.116865039	6	4.93E-01	-0.356075167	6
0.029136546	5	2.45E-01	-0.035467069	5
0	2	3.48E-01	0.23943782	2

0.093830247	6	1.58E-01	0.044913233	6
-0.328250558	4	1.16E+00	0.003679397	4
-0.806176731	7	3.23E+01	-0.637748152	7
0.630663215	16	6.84E-05	-0.396028543	16
1	4	7.68E-04	-0.168392763	4
0.912309295	5	3.69E-03	-0.532817319	5
0.448109187	7	1.61E-02	-0.36316953	7
-0.3284315	14	4.91E+00	-0.108299203	14
1	7	3.99E-04	-0.725069368	7
0.07986441	6	1.70E-01	-0.070826762	6
0.275316398	9	2.78E-02	-1	9
-1	7	1.10E+03	-2	7
-1	10	1.01E+03	-0.882472849	10
-0.971580315	2	5.19E+00	-1	2
-1	10	1.44E+03	-1	10
-0.303733683	3	9.20E-01	-0.391324101	3
-0.433549424	7	3.38E+00	-0.423224091	7
-0.057315575	1	4.22E-01	-0.024117509	1
-0.314151823	6	1.43E+00	-0.682530299	6
0.239989758	3	1.42E-01	0.015940181	3
0.224097307	6	7.80E-02	-0.438271585	6
-1	9	2.84E+03	-0.939125807	9
0.156162082	2	2.25E-01	-0.16941792	2
-0.058458368	3	3.96E-01	0	3
0	3	3.24E-01	-0.165375698	3
0	2	3.48E-01	-0.155166238	2
-0.090299621	1	4.52E-01	-0.237699388	1
-0.498791258	9	8.37E+00	-0.978979619	9
-0.414910795	3	1.35E+00	-0.884745684	3
0	2	3.48E-01	-0.2085219	2
-0.499956681	8	6.53E+00	-0.459297982	8
1	6	1.71E-04	-0.527920351	6
0.002662435	4	2.99E-01	-0.000601719	4
-0.070033383	11	3.38E-01	-0.442461558	11
0.056638091	1	3.31E-01	0.010412547	1
-0.307030348	2	8.17E-01	-0.226126844	2
-0.927799299	7	6.75E+01	-1	7
-0.26280606	5	9.79E-01	-0.198139859	5
-0.584863136	6	6.18E+00	0.000652358	6
-0.015061989	5	3.02E-01	0.252185705	5
-0.225232463	5	8.19E-01	-0.058420471	5
-2	9	4.73E+04	-2	9
0.302200225	5	6.69E-02	-1	5
-0.379985072	13	7.11E+00	-0.630844895	13
0.261917067	5	8.11E-02	-0.152860461	5
0.06840632	1	3.23E-01	-0.021980477	1
0	1	3.73E-01	0	1

-2	7	2.31E+04	-1	7
-0.758079679	7	2.41E+01	-0.521843832	7
0.307822357	5	6.52E-02	-0.002470821	5
0.002583877	43	1.77E-02	0	43
0.000466503	43	1.88E-02	0	43
-0.07601673	3	4.21E-01	-0.021297415	3
0.007042405	2	3.41E-01	-0.022660081	2
1	5	1.40E-03	-0.305736729	5
0.491341031	3	5.98E-02	-0.373857652	3
-0.062719674	3	4.02E-01	-0.604308637	3
-0.002165844	42	2.18E-02	-0.03406646	42
-0.016471916	1	3.87E-01	-0.034048683	1
0.150123095	5	1.38E-01	-0.472043026	5
-0.46892748	6	3.30E+00	-1	6
-0.517579184	10	1.26E+01	-1	10
-0.048685575	2	3.98E-01	-0.282824894	2
-0.132268852	10	5.71E-01	-0.510797031	10
-0.029806779	3	3.59E-01	-0.005320519	3
-0.553275746	3	2.17E+00	-0.213038164	3
-0.101472281	8	4.49E-01	-0.026195631	8
-0.674457931	9	3.05E+01	-0.945052277	9
0.050969186	3	2.72E-01	-0.642868256	3
0.014516999	4	2.84E-01	-0.036815958	4
-0.073671348	4	4.08E-01	-0.060372025	4
-0.612866787	2	1.91E+00	-0.407458922	2
0.037768662	7	1.94E-01	0.101256008	7
-0.474842814	5	2.68E+00	-0.059070816	5
-2	3	2.89E+02	-0.838599099	3
-0.377471064	7	2.40E+00	-1	7
-0.053128306	2	4.03E-01	-0.351483299	2
-0.028245718	1	3.96E-01	-0.070836756	1
-0.817811065	12	3.55E+02	-0.795646117	12
-0.653742686	20	1.34E+03	-0.566577682	20
0.492446758	3	5.96E-02	-0.405248346	3
0.369378855	2	1.24E-01	-0.063968705	2
-1	6	1.52E+02	-0.467482715	6
-0.096387985	10	4.28E-01	-0.258589568	10
-1	2	6.58E+00	-0.164067644	2
-1	6	1.95E+02	-0.406360231	6
-0.672877942	10	4.37E+01	-0.537798271	10
0.183810683	12	3.08E-02	-0.112135043	12
0.011565974	2	3.37E-01	0.013752973	2
-0.405211587	5	1.93E+00	-0.150767312	5
-0.147666898	3	5.38E-01	-0.32961652	3
0	4	3.02E-01	-0.07607671	4
-0.153164817	9	6.55E-01	6.59E-05	9
-0.243376787	7	1.07E+00	-0.384143285	7

-0.039677561	6	3.25E-01	-0.149235665	6
-0.779051138	5	1.14E+01	-0.725386363	5
-0.182871768	7	7.39E-01	-0.211332155	7
-0.609488753	7	9.81E+00	-0.323677086	7
-0.19751754	6	7.62E-01	-0.167848715	6
-0.064263512	5	3.82E-01	-0.336507156	5
-0.39620638	6	2.23E+00	-0.856044428	6
0.373090608	3	8.98E-02	-0.500546957	3
1	3	5.74E-03	-2	3
0.466923718	4	4.46E-02	0.048392767	4
0.555411001	8	5.46E-03	-0.847941751	8
0.091487165	1	3.07E-01	-0.125312964	1
0	1	3.73E-01	0	1
0.113401333	8	1.06E-01	-0.11700507	8
-0.162705272	8	6.78E-01	0.172517777	8
-0.128302307	4	5.10E-01	0.62701001	4
-0.188840501	3	6.20E-01	-0.027449237	3
-0.119185731	1	4.81E-01	-0.139847071	1
-0.188950988	16	1.24E+00	-0.056513669	16
-0.336216878	8	2.17E+00	-0.104859409	8
0.183929701	31	8.11E-04	0.856567536	31
-0.392930352	32	2.81E+02	-0.729536342	32
0.055727634	2	2.98E-01	0	2
0.136268365	11	5.63E-02	0.018713003	11
0.121089239	16	3.03E-02	0.130795576	16
0.018025244	11	1.57E-01	-0.02300408	11
0.155036316	29	2.15E-03	-0.313783757	29
0.753546724	15	2.77E-05	-0.240369811	15
0.551906198	11	1.53E-03	-1	11
0.777850229	9	6.86E-04	0.167912312	9
0.226985157	10	3.19E-02	0.443352581	10
-1	4	1.83E+01	2	4
0.298567483	8	3.06E-02	1	8
-0.885259015	12	6.66E+02	2	12
-2	6	1.76E+03	1	6
-0.394769417	5	1.83E+00	0.218275658	5
-1	11	1.39E+04	-0.363409484	11
-1	6	4.56E+02	-0.771721094	6
-0.814348547	6	2.14E+01	-0.658047006	6
-0.948656509	5	2.54E+01	-1	5
0.21506597	3	1.55E-01	-0.115445159	3
0	5	2.81E-01	-0.062594933	5
0	2	3.48E-01	0	2
0.220117627	2	1.88E-01	-0.024749091	2
1	8	1.11E-04	-0.528129067	8
0.821686328	4	1.04E-02	-0.322649514	4
0.627964785	3	3.74E-02	-0.084552347	3

-0.27398406	2	7.45E-01	-0.800300715	2
0.49671781	7	1.20E-02	-0.491409517	7
0.901093811	6	2.01E-03	-1	6
-0.242799959	5	8.91E-01	-0.091398709	5
-0.643336714	10	3.45E+01	-0.209428975	10
-0.310800227	5	1.23E+00	-0.089205637	5
-0.193388243	5	7.04E-01	-0.098768372	5
-0.013595792	14	1.72E-01	0.063468504	14
0	1	3.73E-01	0.001321724	1
-0.394017066	7	2.66E+00	-0.045609478	7
-0.147788812	8	6.13E-01	-0.405191937	8
0.079434519	3	2.47E-01	-0.202264156	3
-0.255510253	6	1.04E+00	-1	6
-1	5	1.14E+02	-1	5
-0.404480187	14	1.10E+01	-0.705544368	14
-0.149905995	5	5.73E-01	-0.639996118	5
-0.802545529	7	3.16E+01	-0.60724881	7
-0.359861363	4	1.32E+00	-0.237418928	4
-0.455417009	6	3.07E+00	-0.34341778	6
-0.21062725	2	6.25E-01	-0.094803822	2
-0.028245718	1	3.96E-01	-0.099826195	1
-0.058438977	1	4.23E-01	-0.024595771	1
-0.480227728	3	1.69E+00	-0.19250788	3
-0.650670693	3	3.03E+00	-0.862453237	3
-1	8	2.09E+03	-1	8
-0.333546049	5	1.37E+00	-0.41823536	5
-0.523071793	4	2.57E+00	-0.73161815	4
0.120467645	2	2.49E-01	-0.008409601	2
-0.031960229	1	3.99E-01	-0.014690798	1
-0.045865288	15	2.33E-01	-0.319357765	15
-0.281642783	7	1.34E+00	-0.9155582	7
0.298807578	7	3.99E-02	-0.681559599	7
0.146018603	5	1.41E-01	-0.5777557	5
-0.370756138	5	1.64E+00	-0.554191978	5
0.745679325	15	3.03E-05	-0.677341024	15
-0.105115797	11	4.58E-01	-0.018868633	11
0.306394228	30	7.38E-05	-0.001290185	30
0.170909823	7	8.66E-02	-0.092729678	7
-0.071704826	21	2.70E-01	0.119565098	21
-0.448001	11	8.99E+00	-0.047777694	11
-0.002818081	6	2.66E-01	0.127215566	6
-0.944628467	4	1.44E+01	-0.10467472	4
-0.339170449	5	1.41E+00	-0.115945648	5
-0.703963778	2	2.47E+00	-0.428081662	2
-0.137425523	21	7.35E-01	-0.163560826	21
0.01174609	12	1.54E-01	-0.002781664	12
-2	8	3.36E+06	-1	8

-0.320953292	20	1.05E+01	-0.317204092	20
-0.007992887	3	3.33E-01	-0.024294034	3
0	5	2.81E-01	-0.015595763	5
-0.009365223	6	2.76E-01	-0.113746055	6
-0.219277339	19	2.21E+00	-0.701323921	19
0.534648788	30	5.93E-07	-0.776130663	30
-0.328304899	12	3.67E+00	-0.601519583	12
-0.973712349	33	2.28E+08	-0.406671625	33
0.007885372	18	1.01E-01	0.070334942	18
-0.159528056	6	6.20E-01	-0.124068344	6
-0.120320949	3	4.90E-01	-0.09253709	3
-0.617869456	5	5.29E+00	-0.34590803	5
-0.394690384	10	4.69E+00	-0.509009654	10
0.175291405	42	1.27E-04	-0.090361666	42
-0.205376054	12	1.17E+00	-1	12
-0.274717849	7	1.29E+00	-0.732270795	7
-0.886971126	8	8.78E+01	-0.372302753	8
-0.047360547	5	3.52E-01	-0.041365766	5
-0.141009048	2	5.15E-01	-0.289407869	2
-1	3	1.06E+01	-0.502651336	3
-0.26209104	5	9.76E-01	-0.25459128	5
-0.009175773	5	2.94E-01	-0.146639607	5
-0.260954783	5	9.71E-01	-0.145713004	5
-0.038846589	2	3.87E-01	-0.018893611	2
-0.59736283	7	9.11E+00	-0.363069748	7
-0.432785676	6	2.72E+00	-0.352304494	6
-0.029180371	2	3.77E-01	-0.012433473	2
0	2	3.48E-01	-0.010700893	2
-0.561281137	5	4.04E+00	-0.214023934	5
-0.925169857	2	4.56E+00	-0.766962405	2
-0.530627132	8	8.02E+00	-0.331344341	8
-0.838629775	6	2.44E+01	-1	6
-1	6	1.68E+02	-0.337015675	6
-0.110985647	3	4.74E-01	-0.044492257	3
-0.246068792	3	7.55E-01	0	3
-0.633425036	24	3.95E+03	-0.705513792	24
0.023229398	1	3.55E-01	-0.009810468	1
-0.200941906	3	6.46E-01	-0.188536622	3
-1	7	7.43E+02	-1	7
1	18	2.06E-08	-0.718017849	18
0.4087849	7	2.05E-02	-1	7
-0.026714189	13	2.08E-01	-0.603691439	13
-0.051968776	5	3.60E-01	-0.159429855	5
-1	6	1.02E+02	-0.661080679	6
-0.937721295	2	4.73E+00	-2	2
-2	2	3.59E+01	-0.844821913	2
-0.416837886	2	1.11E+00	0.053448725	2

-0.014410914	5	3.01E-01	-0.045007132	5
-0.732992755	4	6.06E+00	-0.527852561	4
-0.144685717	6	5.73E-01	-0.3162713	6
-0.033937082	4	3.47E-01	0	4
-0.365337655	4	1.35E+00	-0.177868318	4
-0.685789886	12	1.03E+02	-0.349857685	12
-0.399997328	11	5.92E+00	-0.411245229	11
-0.007468771	3	3.32E-01	-0.118259304	3
0.093408853	5	1.80E-01	0.057053325	5
0.053686156	19	4.94E-02	0.286192173	19
-0.364093037	1	8.10E-01	1	1
-1	22	3.20E+06	0.085822436	22
2	7	3.57E-06	0.632502234	7
0.018568163	2	3.30E-01	-0.004588275	2
-1	10	6.29E+02	-0.021785462	10
-0.014130268	1	3.85E-01	0.023103071	1
-0.058935473	4	3.84E-01	0.175647575	4
0	2	3.48E-01	0.033265463	2
-0.019864289	2	3.67E-01	0	2
-1	10	8.78E+03	-0.180922911	10
-0.215628748	9	1.04E+00	-0.196781652	9
-0.571013865	6	5.73E+00	-1	6
-0.398077862	6	2.25E+00	-0.080395657	6
-0.403244153	3	1.30E+00	-0.278117763	3
-0.611588308	5	5.13E+00	-0.867929742	5
-0.980927016	6	5.25E+01	-0.719682511	6
-0.578843303	9	1.51E+01	-0.626120107	9
-0.420237401	7	3.11E+00	-0.841286171	7
-0.324363748	4	1.14E+00	-0.594577554	4
0.339224945	4	7.53E-02	-0.034684187	4
-0.0955046	5	4.43E-01	2	5
-0.8753898	18	1.24E+04	2	18
-0.228059615	11	1.33E+00	0.167445919	11
0.093829942	22	1.90E-02	0.26599737	22
-0.006319325	2	3.54E-01	-0.003636124	2
-0.072758028	4	4.06E-01	0	4
-0.101874576	9	4.49E-01	0.012898392	9
-0.491227067	8	6.16E+00	-0.143000989	8
-0.125194013	1	4.87E-01	0.031436102	1
-0.754601663	2	2.84E+00	0.141029872	2
-0.401968387	3	1.29E+00	-0.725495501	3
0.447777909	5	3.35E-02	-1	5
-1	5	2.55E+02	0.266657234	5
0.979409916	8	3.16E-04	0.083758528	8
-1	9	1.88E+03	-0.936459049	9
0	2	3.48E-01	0.001712494	2
-0.019507783	3	3.46E-01	-0.124395077	3

-0.898352561	4	1.19E+01	-0.624643411	4
-0.051482726	30	1.42E-01	0.023651336	30
-1	6	3.65E+02	-0.562456418	6
-0.840195724	1	2.23E+00	-0.203786823	1
-0.067315883	2	4.19E-01	-0.172789685	2
-0.490770789	9	7.89E+00	-0.53598809	9
-0.607631991	2	1.89E+00	-0.165370019	2
-0.172163157	3	5.85E-01	0	3
0.050083801	13	9.68E-02	0.013034246	13
0	5	2.81E-01	0.017007086	5
-0.034908033	7	3.02E-01	0.009925371	7
0	3	3.24E-01	0	3
-0.056099488	18	2.36E-01	0.072725256	18
-0.005834016	9	2.21E-01	-0.026056246	9
-0.489672228	9	7.82E+00	-0.055551331	9
0.878883801	18	9.64E-07	0.02850155	18
-0.79162102	3	4.93E+00	-0.261715583	3
-1	1	7.51E+00	-0.605077174	1
-2	16	1.64E+07	-2	16
-0.393145637	16	1.42E+01	-0.558857486	16
-0.833450279	6	2.37E+01	-0.892747717	6
-0.256758596	9	1.41E+00	-0.312754266	9
-0.178148056	7	7.18E-01	-0.436326118	7
-0.58588476	8	1.16E+01	-0.572230584	8
-0.496545983	10	1.06E+01	-0.610557867	10
-0.917342541	10	3.11E+02	-0.840188524	10
-0.175416923	6	6.76E-01	-0.157154758	6
-0.561081579	9	1.32E+01	-0.369718693	9
-0.145101821	4	5.47E-01	-0.304226708	4
-0.345075925	7	1.98E+00	-0.02153412	7
0.272262357	34	5.60E-05	0.661085121	34
-0.571408209	18	2.20E+02	0.120281348	18
-0.411496082	11	6.55E+00	-0.150510451	11
-0.239957124	11	1.48E+00	-0.109048839	11
-0.979061699	8	1.63E+02	-0.090121886	8
-2	11	1.72E+06	-0.917766847	11
-0.989476245	12	1.76E+03	0.527930993	12
-1	8	1.28E+03	-0.324491156	8
-0.225042315	4	7.58E-01	-0.260827358	4
-0.111426375	2	4.74E-01	-0.314226848	2
-0.302531907	3	9.17E-01	-0.324442092	3
0.950663923	9	1.92E-04	-0.539429051	9
0.319980955	9	2.00E-02	-0.127447006	9
-0.112120521	7	4.81E-01	-0.143440149	7
-0.788234909	9	7.07E+01	-0.54683462	9
-0.25342703	4	8.52E-01	-0.421927626	4
-0.112496768	5	4.80E-01	-0.452979342	5

-1	15	3.81E+05	-1	15
0	3	3.24E-01	-0.069771096	3
-0.352705239	9	2.85E+00	-0.535398354	9
-0.650565681	12	7.44E+01	-0.234170029	12
-0.397295735	7	2.71E+00	-0.326964828	7
-1	9	3.90E+02	0.587851188	9
-0.378784133	14	8.39E+00	0.41447345	14
-0.641612019	3	2.94E+00	-0.465288994	3
-0.118434094	7	5.00E-01	-0.002232508	7
0.11727847	14	4.27E-02	0.019131273	14
0.251965955	22	1.54E-03	0.034556431	22
-0.339886484	12	4.09E+00	-0.266491976	12
-0.821484953	12	3.67E+02	-0.759579389	12
-0.213331106	5	7.74E-01	-0.024272722	5
-0.618011653	2	1.94E+00	-0.217855303	2
-0.006801772	5	2.90E-01	-0.001910113	5
-0.239618072	12	1.60E+00	-0.005274039	12
-2	40	5.21E+19	-0.242757319	40
-0.387233331	9	3.68E+00	0.101822892	9
-1	5	6.56E+01	-0.2159322	5
-0.770671726	16	1.30E+03	-0.804094293	16
-0.387024388	4	1.47E+00	-0.001249063	4
0.173894126	26	2.54E-03	0.166676046	26
-1	3	1.25E+01	0.281641351	3
-0.733875432	6	1.38E+01	-1	6
-2	6	1.32E+03	-2	6
-0.390582773	9	3.77E+00	-1	9
0	7	2.44E-01	0.108710602	7
-0.268849421	7	1.24E+00	-0.033426874	7
0.329741114	6	4.41E-02	-0.020455629	6
-0.352238472	2	9.27E-01	-0.423247777	2
0.084149671	4	2.14E-01	-0.349861788	4
-0.375605954	12	5.71E+00	-0.497170819	12
-0.111011489	2	4.74E-01	-0.074947503	2
-0.793227531	7	2.99E+01	-0.65502022	7
-0.021948951	3	3.49E-01	-0.072935972	3
-0.000903957	6	2.63E-01	-0.089173375	6
-0.860666672	7	4.49E+01	-0.744009128	7
-0.172033079	4	6.10E-01	-0.218754907	4
-1	9	3.91E+03	-0.90680261	9
-0.275883206	7	1.30E+00	-0.158314134	7
-0.85385542	5	1.62E+01	-0.563990783	5
-0.86031996	6	2.74E+01	-0.317810262	6
0	4	3.02E-01	-0.010826773	4
0	1	3.73E-01	0	1
-0.960837249	27	5.91E+06	-0.593656318	27
-0.510590306	4	2.44E+00	-0.094549637	4

-0.250026923	2	6.97E-01	0	2
-0.001519954	7	2.46E-01	-0.87091209	7
-0.449153549	3	1.52E+00	-0.047294957	3
-0.495047562	3	1.78E+00	-0.273543224	3
-0.040832442	1	4.07E-01	0.025922978	1
-0.076934346	3	4.22E-01	-1	3
-0.194780999	5	7.09E-01	-0.047240886	5
-1	3	4.24E+01	-0.735035194	3
0	4	3.02E-01	-0.321655833	4
-0.126278736	6	5.18E-01	-0.474221659	6
-0.289816315	4	9.88E-01	-0.077066303	4
-0.854773685	4	9.98E+00	-0.299288619	4
0.208603947	4	1.28E-01	-0.261906875	4
0.409626093	2	1.11E-01	-0.130038692	2
-0.069303849	5	3.91E-01	0	5
0.476272049	4	4.30E-02	0	4
0.092739744	3	2.35E-01	0	3
-0.166139939	5	6.19E-01	-0.080472712	5
-0.093924182	9	4.23E-01	-0.036587248	9
0	2	3.48E-01	0	2
-0.008671353	4	3.13E-01	0	4
-0.232712169	10	1.28E+00	-0.442043085	10
0.57407872	1	1.10E-01	-0.355094813	1
-0.317729387	2	8.42E-01	-0.006502098	2
-0.118455462	9	5.07E-01	-0.37004086	9
0.97350878	4	5.61E-03	-0.269999499	4
-0.220778719	9	1.08E+00	-0.345037254	9
-0.145490333	14	7.00E-01	-0.081288205	14
0	2	3.48E-01	0	2
-0.204056818	5	7.41E-01	0.022505456	5
-0.634651394	10	3.22E+01	0.404085888	10
-0.385717817	5	1.76E+00	-0.485990538	5
-1	16	7.54E+04	-0.514509666	16
-2	28	5.57E+11	-1	28
-2	8	7.48E+03	-1	8
-1	7	2.05E+02	-0.80038653	7
-1	1	3.30E+00	-0.515880057	1
0.950897306	5	3.07E-03	-0.191269002	5
0.370951647	6	3.53E-02	-0.705485412	6
-2	5	3.91E+02	-0.832761257	5
-1	5	8.55E+01	-1	5
-0.550669551	3	2.15E+00	-0.48577679	3
1	10	1.82E-06	-0.495786545	10
0.211461541	14	1.56E-02	0.391724262	14
0.436496935	4	5.05E-02	0.93350533	4
-0.802180644	5	1.27E+01	-0.378792623	5
-1	9	6.41E+02	-0.937735059	9

0.323207598	6	4.57E-02	-0.613924809	6
-1	4	7.16E+01	-0.130136983	4
0.451343428	4	4.76E-02	-0.775374758	4
0.570150775	5	1.88E-02	-0.635424414	5
-0.20102611	8	8.77E-01	-0.781747061	8
-1	7	2.10E+03	-1	7
-1	8	4.50E+02	-1	8
0.277829763	3	1.25E-01	-0.276686207	3
-0.094188486	9	4.24E-01	-0.361769753	9
-0.724470261	31	3.20E+05	-0.44339932	31
-1	5	4.39E+01	-1	5
-0.373552848	7	2.35E+00	-0.583975402	7
-0.206443366	13	1.26E+00	-0.024127248	13
-0.561785833	4	3.01E+00	-0.714903859	4
-2	7	1.81E+04	-1	7
-2	7	2.10E+04	-0.801877593	7
-0.006655143	4	3.10E-01	-0.027690119	4
-0.26382099	7	1.21E+00	-0.243898731	7
-0.26282324	6	1.08E+00	-0.718707902	6
-1	14	2.96E+05	-1	14
-0.091461009	5	4.34E-01	-0.186340523	5
-0.851041216	1	2.28E+00	-1	1
-0.666089135	12	8.61E+01	-0.510773894	12
-0.376432839	12	5.76E+00	-0.402974647	12
-1	16	2.64E+04	-0.722907159	16
-2	25	2.55E+12	-2	25
-0.347591713	14	6.02E+00	-0.78406028	14
-0.103914512	12	4.52E-01	-0.38614903	12
-0.365085722	17	1.20E+01	-0.719454981	17
-0.471480441	2	1.29E+00	0	2
-0.959709349	12	1.33E+03	-0.304251278	12
-0.063719266	20	2.46E-01	1	20
-0.143615326	8	5.96E-01	0.188345929	8
-0.92026825	31	2.28E+07	-0.454318466	31
-1	13	5.85E+03	-0.867579414	13
-0.902243406	5	2.04E+01	-0.923348941	5
-0.243852558	3	7.49E-01	-0.379238111	3
-0.016979083	4	3.24E-01	-0.18337218	4
0	7	2.44E-01	-0.500723631	7
0	5	2.81E-01	-0.204263062	5
-0.218750548	5	7.95E-01	-0.240486417	5
-0.117771706	6	4.95E-01	-0.102886339	6
0.051627199	5	2.20E-01	-0.130859908	5
0	3	3.24E-01	-0.010962058	3
-0.0009883	4	3.03E-01	-0.000209787	4
0.29987055	3	1.16E-01	-0.284838044	3
0	2	3.48E-01	0.331903626	2

-0.244244551	2	6.86E-01	-0.577133684	2
-0.789983706	3	4.90E+00	-0.273888253	3
0.35414426	3	9.59E-02	-0.445359734	3
-0.722064156	2	2.59E+00	-0.40128718	2
0	2	3.48E-01	-0.472954546	2
0	1	3.73E-01	-0.025611551	1
0	1	3.73E-01	-0.203786823	1
-0.258063717	6	1.06E+00	-0.041488444	6
-0.488141558	7	4.70E+00	-0.240163659	7
0.096516855	5	1.78E-01	-0.522766607	5
-0.03135844	14	2.08E-01	0.054035919	14
-0.159395271	5	5.99E-01	-0.284312266	5
0.057588276	35	8.24E-03	-0.112080611	35
-0.099277254	8	4.43E-01	-0.447421317	8
0.48371486	6	1.92E-02	0.041223348	6
-0.158243054	8	6.58E-01	-0.036896898	8
-0.112465684	5	4.80E-01	0.071293282	5
-0.479023756	5	2.73E+00	0.130667067	5
-0.301047306	9	1.95E+00	-0.147512057	9
2	24	1.00E-13	-0.06433988	24
3	5	5.05E-07	2	5
0.375504181	12	5.14E-03	0.24882914	12
0.275254339	7	4.60E-02	-0.021401927	7
0.155878379	15	2.38E-02	0.196307335	15
0.01969232	18	8.63E-02	0.063903302	18
0.314616361	12	9.08E-03	-0.383733158	12
-0.364247181	8	2.62E+00	0.59273375	8
-0.062091649	38	1.40E-01	-0.323360034	38
-0.595897633	4	3.46E+00	-1	4
-0.818615025	4	8.61E+00	-0.826897648	4
-1	3	1.53E+01	0.077735398	3
-0.374797902	2	9.87E-01	0.194325125	2
2	3	4.50E-04	0.16008591	3
-0.069374816	4	4.01E-01	-0.116014484	4
-0.460506452	4	1.99E+00	-0.34998812	4
-1	7	2.49E+02	-0.601498798	7
-0.64516724	6	8.56E+00	-0.878448762	6
-0.163090523	7	6.56E-01	-1	7
1.60E-05	3	3.24E-01	-0.001715771	3
-0.265226597	5	9.91E-01	-0.12004113	5
-0.137332888	8	5.72E-01	-0.604307117	8
0	2	3.48E-01	0	2
0	2	3.48E-01	0	2
0	1	3.73E-01	0	1
-0.490760537	2	1.36E+00	-0.124818361	2
-0.08031934	25	2.86E-01	-0.608261451	25
-0.969497	19	7.62E+04	-0.767713073	19

-0.683297266	21	3.01E+03	-0.520470315	21
-0.423385058	3	1.39E+00	-0.002066564	3
-0.077220858	9	3.74E-01	-0.360139847	9
-1	16	2.12E+04	-0.893338907	16
-0.68168692	9	3.22E+01	-1	9
-0.472196877	9	6.88E+00	-0.349237594	9
-0.681875862	6	1.04E+01	-0.491519345	6
-0.984682101	4	1.70E+01	-0.692467766	4
0.104903896	17	3.20E-02	-0.755465175	17
0	3	3.24E-01	0.006207721	3
-0.144053345	3	5.32E-01	0	3
-0.395856785	19	2.59E+01	-0.426923398	19
-2	12	5.39E+05	-1	12
-0.377813778	6	2.02E+00	-0.345735003	6
0.06015532	3	2.63E-01	-1	3
0	3	3.24E-01	-0.117681663	3
-0.087644704	1	4.50E-01	-0.225695944	1
0.078132792	4	2.19E-01	-0.182610939	4
-0.016809482	3	3.43E-01	-0.00377385	3
-1	9	2.27E+03	-1	9
-0.929394144	3	7.91E+00	-0.068780969	3
-0.114187259	11	4.95E-01	-0.137552669	11
-0.715207571	9	4.13E+01	-0.536207561	9
-1	6	2.80E+02	-0.403284888	6
-2	8	5.73E+04	-1	8
-0.051732334	2	4.02E-01	-0.029616756	2
-0.006257223	2	3.54E-01	-0.010680462	2
-0.080842135	2	4.35E-01	0	2
-0.550442826	8	9.16E+00	-0.764108212	8
-0.358066947	2	9.42E-01	-0.261429772	2
0.204459986	7	7.07E-02	-0.424340553	7
-0.408081024	4	1.60E+00	-0.265694517	4
-0.446097267	4	1.87E+00	-0.273770012	4
-0.103381484	8	4.55E-01	-0.156934949	8
-0.756473016	11	1.31E+02	-0.955081933	11
-0.069306743	1	4.32E-01	-0.095225973	1
-0.328170052	5	1.34E+00	-0.443108182	5
-0.988370071	9	3.09E+02	-1	9
-1	9	1.21E+03	-1	9
0.084854585	4	2.13E-01	-0.660109022	4
-0.854737271	2	3.75E+00	-0.649240446	2
-1	9	6.46E+02	-0.640332917	9
-0.523451099	3	1.96E+00	-0.790702039	3
-2	11	4.61E+06	-1	11
-0.943690239	8	1.29E+02	-0.833485131	8
-1	9	7.87E+03	-1	9
-0.968748769	8	1.52E+02	-0.986438686	8

-0.396627884	6	2.23E+00	-0.830062396	6
-1	4	2.48E+01	-0.526521388	4
0.014984819	9	1.90E-01	-0.23075879	9
-0.114852895	3	4.81E-01	-0.166728231	3
-0.52475703	5	3.40E+00	-0.450387318	5
-2	10	5.89E+04	-0.679726098	10
-0.358419924	3	1.11E+00	-0.527870231	3
-0.669117967	28	3.18E+04	-0.258059874	28
-0.166802407	5	6.21E-01	-0.110769083	5
-0.224784492	5	8.18E-01	-0.533114398	5
0	4	3.02E-01	-0.023048711	4
-0.468747982	10	8.50E+00	-0.269811197	10
-0.74540913	6	1.47E+01	-0.804678421	6
0	1	3.73E-01	-0.180489619	1
-0.304558009	3	9.23E-01	0.056421854	3
-0.149952738	8	6.22E-01	-0.880606851	8
-0.702665047	18	1.26E+03	-0.864074857	18
-2	4	3.27E+02	-1	4
-1	7	7.57E+02	-0.31200868	7
-0.256229524	5	9.49E-01	-0.115733223	5
-0.148778103	8	6.17E-01	-0.416583985	8
-0.47238837	6	3.36E+00	-0.019522753	6
-0.515762887	6	4.25E+00	-0.333217438	6
0.148955086	7	9.90E-02	-0.745242655	7
-0.382774132	6	2.07E+00	-0.310787504	6
-0.677198144	10	4.53E+01	-0.51643696	10
-0.455453159	6	3.07E+00	-0.284667144	6
-0.141943348	3	5.28E-01	-0.045856688	3
-0.668790588	8	2.03E+01	-0.324546869	8
-0.146762632	7	5.94E-01	-0.311942188	7
-0.009943493	5	2.95E-01	-0.329815427	5
0	7	2.44E-01	-0.001232787	7
-0.207177629	5	7.52E-01	-0.158545038	5
-0.24343727	3	7.48E-01	-0.048739544	3
-0.305747772	10	2.30E+00	-0.030813383	10
0.159247663	4	1.57E-01	-0.134231184	4
-0.31587796	7	1.65E+00	-0.108329463	7
-1	21	1.35E+08	-1	21
0.079677265	3	2.46E-01	-0.674528532	3
-0.388200088	3	1.23E+00	-0.226415994	3
-0.738382115	11	1.12E+02	-1	11
-0.469461114	8	5.32E+00	-0.295376908	8
-2	3	8.74E+01	-0.850074195	3
-0.227515888	8	1.05E+00	-0.14848801	8
0.39900668	9	1.12E-02	-0.117160958	9
-0.010168379	6	2.77E-01	-0.256381562	6
-0.210521203	7	8.74E-01	-0.515639169	7

-0.337821246	3	1.03E+00	-0.279022829	3
0.518727036	10	3.07E-03	-0.855456297	10
-0.495695093	5	2.96E+00	-0.296799027	5
0.07054697	22	2.75E-02	0.636356438	22
-1	12	8.51E+04	-0.434599661	12
-0.804737272	7	3.20E+01	-0.403705403	7
0.078734722	74	4.16E-05	0.917874359	74
0.062487497	2	2.92E-01	1	2
-0.234799	15	1.97E+00	-0.201071261	15
0.198991842	8	5.98E-02	-0.414155018	8
-0.188810562	9	8.52E-01	-0.11040988	9
-0.145889821	5	5.62E-01	-0.16307496	5
0	2	3.48E-01	-0.004102486	2
-2	4	1.54E+02	-0.846362196	4
-0.040322489	1	4.07E-01	-0.05294399	1
-0.436511002	25	1.66E+02	0.064496532	25
-1	10	3.15E+03	-1	10
-0.014838586	6	2.84E-01	-0.011773637	6
-0.072595094	3	4.16E-01	-0.039812222	3
0	1	3.73E-01	-0.007636122	1
-0.722407629	10	6.51E+01	-0.519253727	10
-0.169284784	8	7.09E-01	-0.006250431	8
-0.516305706	10	1.24E+01	-0.467246005	10
-0.538329292	6	4.81E+00	0.202927974	6
0.234764783	8	4.70E-02	-0.972802297	8
-0.190633223	7	7.75E-01	-0.624750887	7
-0.124366065	7	5.19E-01	-0.479668309	7
-0.831883187	10	1.57E+02	-0.04718725	10
-0.61953343	9	2.04E+01	-0.461893332	9
0.619712008	15	1.26E-04	-0.74674066	15
-0.057142792	69	4.37E-02	0.867390164	69
-0.462386738	19	6.53E+01	-0.117047815	19
-0.026816504	2	3.75E-01	0	2
-0.455597825	18	4.73E+01	0.063722012	18
-0.210885548	30	4.13E+00	-0.182686359	30
-0.096123298	1	4.58E-01	-0.024595771	1
-0.538328965	2	1.56E+00	-0.21017235	2
-0.398671767	9	4.00E+00	-0.408895084	9
0.225523743	5	9.63E-02	-0.297632547	5
-1	7	1.27E+02	-0.495128562	7
-0.393503186	4	1.51E+00	-2	4
0.134451433	70	4.85E-06	-0.764681825	70
-0.077383534	20	3.00E-01	-0.83604387	20
0.309395636	32	4.01E-05	-0.895058245	32
-0.109249487	1	4.71E-01	-0.099826195	1
-0.863301717	5	1.70E+01	-0.281267576	5
-0.041435386	5	3.42E-01	-0.267839521	5

-0.784864734	15	9.87E+02	-0.714805971	15
-0.284696365	14	3.08E+00	-0.273138507	14
0.099009322	8	1.17E-01	-0.221652936	8
-0.001986913	4	3.04E-01	-0.102132066	4
-0.143743673	7	5.83E-01	-0.02018227	7
0.147876099	7	9.96E-02	-0.382441391	7
-0.876085954	11	3.70E+02	-0.724291771	11
-0.050990961	12	2.76E-01	-0.052237151	12
0.08771667	15	5.14E-02	-0.082288558	15
-0.609164851	8	1.36E+01	-0.1996667	8
-0.423187457	4	1.71E+00	-0.109418904	4
-0.201133649	9	9.33E-01	-0.495253576	9
-0.233611468	8	1.09E+00	-0.00942351	8
0.050963319	9	1.45E-01	0.162690283	9
-0.633879172	13	8.99E+01	0.79566308	13
0.21783587	6	8.07E-02	0.045277766	6
-0.157928924	4	5.76E-01	-0.0398758	4
-0.299853637	8	1.70E+00	0.067389309	8
-0.120308233	6	5.02E-01	-0.033081897	6
0	1	3.73E-01	0	1
0.045227575	8	1.68E-01	0.063287308	8
-0.327053976	5	1.33E+00	-0.760486049	5
-1	4	1.30E+02	-0.453725655	4
-0.07649877	4	4.13E-01	0.565171435	4
0.171655514	10	4.98E-02	0.225598054	10
-0.516351374	7	5.58E+00	0.309106378	7
0.074085959	11	9.66E-02	-0.020648765	11
-0.246433889	16	2.46E+00	0.219615793	16
-0.232040614	31	7.01E+00	-0.017944173	31
-0.411072581	14	1.18E+01	-0.591254514	14
-0.430470909	2	1.15E+00	-0.064185658	2
-1	18	1.11E+05	-1	18
-0.965647968	30	3.50E+07	-0.937584049	30
0.473072721	10	4.43E-03	-1	10
0.067502164	14	7.25E-02	-0.711105105	14
0.050043693	17	6.40E-02	1	17
-0.783845159	35	6.87E+06	0.135860281	35
-0.442954955	14	1.66E+01	0.067264878	14
-0.40852173	30	2.69E+02	-0.115883167	30
-0.323077867	24	1.90E+01	-0.271695253	24
-0.09984376	6	4.49E-01	0.075142919	6
-0.629992731	8	1.56E+01	-0.279321868	8
-0.252851873	10	1.50E+00	0.029809107	10
-0.197000212	44	6.97E+00	-0.394038016	44
1	7	4.25E-05	-0.650124658	7
0.165907009	7	8.93E-02	-0.289747426	7
0.473294206	7	1.39E-02	-0.527559724	7

-0.443951952	32	8.84E+02	1	32
-0.147621826	6	5.82E-01	0.485974356	6
-0.238141177	19	2.88E+00	-0.011154269	19
-0.754697257	15	7.02E+02	-0.202827814	15
-0.267524383	10	1.69E+00	-0.109457789	10
-0.512650124	7	5.45E+00	0.357171753	7
0	1	3.73E-01	0.068992948	1
-0.870071318	6	2.89E+01	-0.793071164	6
-0.158660625	4	5.78E-01	-0.472117149	4
-0.666296943	46	2.18E+07	0.148623377	46
-0.190410513	5	6.95E-01	-0.040220318	5
-0.236671513	11	1.43E+00	-0.716560092	11
-0.485923377	2	1.34E+00	-0.533252685	2
-2	8	1.08E+05	-1	8
-0.738654549	12	1.69E+02	-0.833451915	12
-0.309262524	5	1.22E+00	-0.149765377	5
0.036299988	3	2.86E-01	-0.010924778	3
-0.708693558	5	8.14E+00	-0.471632346	5
-1	7	2.91E+02	-0.570138495	7
-0.752721906	5	1.00E+01	-0.048722003	5
0.206872481	8	5.67E-02	-0.240442594	8
-2	5	1.85E+03	-2	5
0.070053126	5	2.02E-01	-0.47288303	5
-0.585467448	56	3.87E+07	1	56
0.189440832	23	3.42E-03	0.093608152	23
-0.28807862	5	1.10E+00	-0.262113788	5
0.696724553	3	2.95E-02	-0.615681447	3
0.721347523	13	1.18E-04	-0.379257362	13
-1	38	1.40E+11	-1	38
-0.179129849	3	6.00E-01	-0.183958539	3
-2	5	5.21E+03	-1	5
-0.933518074	4	1.38E+01	-0.573422428	4
-0.857589959	8	7.21E+01	-1	8
-0.286671687	4	9.76E-01	-0.961904037	4
-0.158963685	41	1.99E+00	-0.432850382	41
-0.733760346	8	3.14E+01	-0.490599692	8
-0.506241317	9	8.84E+00	-0.571847891	9
-1	6	1.40E+02	-0.135610741	6
0.063522565	5	2.08E-01	2	5
-0.713520709	10	6.06E+01	-0.299851506	10
-0.358769713	4	1.31E+00	0.080001467	4
-0.780082311	15	9.35E+02	-1	15
-1	6	5.54E+02	0.294618654	6
-0.360510996	4	1.32E+00	-2	4
-0.464250394	4	2.02E+00	-2	4
-1	7	1.35E+02	-0.62874008	7
0	5	2.81E-01	-0.589827742	5

-1	8	5.34E+02	-0.054794513	8
0	8	2.27E-01	-0.139017726	8
0	4	3.02E-01	-0.012720623	4
0.439776266	11	4.04E-03	-0.556396229	11
0.279643532	11	1.62E-02	0.132602433	11
-0.802248879	11	1.95E+02	-0.435306844	11
-0.110224936	10	4.78E-01	-0.140527974	10
0.294439977	13	8.42E-03	0.171805884	13
2	13	2.58E-10	-0.086840799	13
0.660429948	8	2.70E-03	-0.312951162	8
-0.22103009	52	2.61E+01	-0.273626691	52
-0.729384834	13	2.34E+02	-0.770203959	13
0.460154356	4	4.59E-02	-2	4
-0.031578795	4	3.43E-01	-0.121415428	4
-0.875776324	9	1.35E+02	-0.27334677	9
-3	11	1.19E+09	-2	11
-2	11	1.68E+07	-2	11
1	6	7.52E-04	0.215494623	6
-0.049353891	13	2.61E-01	-0.381046538	13
-2	12	2.16E+05	-1	12
-0.886025524	4	1.13E+01	-0.733618071	4
-0.865921338	13	9.14E+02	-0.874221771	13
-0.551065846	7	6.88E+00	-0.118440964	7
0.801040394	3	2.06E-02	-0.604932173	3
-1	5	1.83E+02	-0.624250421	5
-0.494083787	11	1.34E+01	-0.978829949	11
-0.518153091	3	1.92E+00	-0.424324012	3
-0.691159961	4	5.11E+00	-1	4
2	4	5.06E-04	-2	4
-0.467323916	22	1.42E+02	-1	22
-0.609251517	2	1.89E+00	-0.836534873	2
-0.973365808	6	5.04E+01	-0.43350528	6
-0.116466883	4	4.86E-01	-0.080105866	4
-2	23	1.70E+10	-1	23
-2	6	4.61E+03	-0.394748689	6
0.342489675	5	5.53E-02	0.936344227	5
-0.205004144	45	9.47E+00	1	45
-0.745620024	11	1.19E+02	0.355653775	11
-2	10	3.98E+04	-1	10
-0.763271319	4	6.87E+00	-1	4
-0.524565152	7	5.86E+00	-1	7
-0.401264125	14	1.07E+01	-0.048476727	14
-0.085846846	2	4.42E-01	-0.051826618	2
-0.021726777	2	3.69E-01	-0.009082331	2
-0.004543585	3	3.29E-01	-0.167511553	3
-0.713709989	3	3.77E+00	0.597954464	3
-0.984425165	5	3.02E+01	0.37949305	5

-0.446460088	9	5.69E+00	0.4590185	9
-1	17	1.29E+05	-0.782247329	17
1	8	5.88E-05	0.020018127	8
-2	4	1.74E+02	-1	4
-2	4	1.56E+03	-2	4
-1	4	5.33E+01	-1	4
-0.044527168	4	3.62E-01	-0.104845464	4
-0.559839872	8	9.76E+00	0.054412533	8
-1	7	1.23E+02	-0.780963231	7
-2	5	1.76E+03	-1	5
-1	3	4.65E+01	-0.799710545	3
-0.80800513	2	3.29E+00	-0.445819174	2
0.371516485	6	3.52E-02	-2	6
-0.217201329	6	8.47E-01	-1	6
-0.866809362	8	7.67E+01	-1	8
-0.196254181	3	6.36E-01	-0.176401526	3
0.619183474	14	2.04E-04	-0.297097178	14
-0.412429313	12	8.06E+00	-0.958099423	12
-0.327172997	5	1.33E+00	-2	5
-0.018896091	6	2.90E-01	-0.333908015	6
-0.770226592	7	2.60E+01	-0.110372957	7
-0.872822165	6	2.93E+01	0.673398854	6
-0.206999439	21	2.12E+00	0.396541282	21
-0.488290536	8	6.04E+00	0.123668719	8
1	41	7.55E-21	-0.606181749	41
2	4	1.94E-04	0.137102849	4
-0.902144268	6	3.43E+01	-2	6
-0.527095739	11	1.79E+01	-1	11
-0.938477219	13	1.89E+03	-0.081561367	13
-0.326310345	3	9.95E-01	0.368458805	3
0.022970797	12	1.38E-01	-0.089419572	12
0.77745546	3	2.24E-02	-0.208744085	3
2	10	4.73E-07	0.125862597	10
0.311600439	4	8.43E-02	-0.014308547	4
0.285683785	7	4.32E-02	0.353781513	7
0.176887509	9	5.75E-02	0.591621507	9
0.360813327	17	1.27E-03	0.159802239	17
-0.192114382	6	7.40E-01	-0.368514479	6
0.008280803	4	2.92E-01	0.08284632	4
-0.177374399	20	1.29E+00	-0.133309696	20
-0.117579814	48	6.44E-01	-0.198471412	48
0.088783502	4	2.10E-01	-0.892785568	4
0.891618189	9	2.96E-04	0.760168534	9
0.97205328	5	2.78E-03	0.894284132	5
-1	7	7.16E+02	-0.33436282	7
0.596140732	9	2.62E-03	-0.549614726	9
0.47348741	3	6.36E-02	-0.527387631	3

-1	23	6.27E+06	-1	23
-0.662863959	3	3.16E+00	-0.273582258	3
-1	17	1.20E+06	-1	17
-0.762584766	16	1.18E+03	-0.625744792	16
-0.141498167	3	5.27E-01	-0.074812921	3
-1	4	2.71E+01	0.322253948	4
0.666919888	28	1.00E-07	2	28
0.214530713	1	2.36E-01	-0.477642491	1
1	4	4.95E-03	2	4
0.532985759	6	1.47E-02	2	6
-0.293415009	6	1.28E+00	-0.189511378	6
0.627942171	13	3.01E-04	0.574773188	13
0.032781667	3	2.89E-01	0.258957898	3
-0.137133407	21	7.32E-01	2	21
-0.80835151	7	3.27E+01	1	7
3	3	8.97E-06	2	3
3	6	1.07E-07	1	6
0.152169968	13	3.49E-02	0.354983283	13
-0.75673927	25	5.05E+04	-0.266238457	25
-0.229272092	1	6.08E-01	-0.059635418	1
-0.487437886	6	3.65E+00	-0.636949834	6
-0.019545684	2	3.67E-01	-0.053188417	2
0.269935698	20	1.90E-03	-0.578456133	20
-0.044165519	5	3.47E-01	0.677749459	5
0.256100852	33	1.04E-04	0.312533864	33
1	2	1.04E-02	0.8643734	2
-0.830877224	3	5.64E+00	-0.855582642	3
-0.547209113	7	6.72E+00	-0.752161904	7
-0.577824487	7	8.09E+00	-0.788868208	7
-0.03886066	3	3.70E-01	-0.293818119	3
-0.814003171	3	5.32E+00	-1	3
0	2	3.48E-01	-0.172451444	2
-0.011978135	11	2.04E-01	0.041872367	11
-0.465507137	7	4.10E+00	-0.199741195	7
-0.446431457	9	5.69E+00	-1	9
-0.996214768	2	5.56E+00	-1	2
-0.312602384	6	1.42E+00	-0.049601782	6
-0.3270048	8	2.04E+00	-0.360631651	8
-0.236710032	4	7.95E-01	-0.220865973	4
-0.95028214	10	4.05E+02	-0.706114686	10
-0.298072921	8	1.68E+00	-0.586516214	8
-0.414525029	7	3.01E+00	-0.340205127	7
-0.357778097	6	1.81E+00	-0.089045465	6
-0.018989447	1	3.89E-01	-0.031457894	1
-0.276423593	6	1.17E+00	-0.398704753	6
-0.346187138	3	1.07E+00	-0.529011929	3
-0.610756506	3	2.64E+00	-0.552985865	3

0.161898447	5	1.30E-01	-0.573891089	5
-0.020768188	2	3.68E-01	-0.042155429	2
0	4	3.02E-01	0	4
-0.160958018	4	5.83E-01	-0.137246231	4
-0.170886189	4	6.07E-01	-0.195620171	4
-0.032028799	2	3.80E-01	-0.057761494	2
-1	20	3.51E+05	-0.770123604	20
-0.390075083	4	1.49E+00	-0.962197272	4
-2	2	2.42E+02	-1	2
0.653951506	19	1.16E-05	0.087771523	19
-0.684355495	3	3.41E+00	-1	3
-0.377348367	12	5.81E+00	-0.365475471	12
-1	4	8.01E+01	-0.29633647	4
2	21	1.18E-14	0.696300961	21
0.963240131	4	5.85E-03	-0.143843495	4
-1	4	1.23E+02	-0.928378989	4
-2	4	1.08E+03	-0.921468418	4
-0.894169957	40	1.34E+09	0.463156074	40
-0.38176398	4	1.44E+00	-0.49115341	4
1	11	1.76E-06	0.496710738	11
1	13	1.01E-06	0.076634282	13
2	5	1.58E-04	0.598135885	5
-0.02400462	2	3.72E-01	-0.062668206	2
-0.757495894	14	4.73E+02	-0.261698635	14
-0.324729786	8	2.01E+00	0.089145911	8
0.506287836	2	8.50E-02	-0.16714421	2
-1	6	1.58E+02	2	6
1	16	7.73E-08	-0.123810945	16
-0.359719796	10	3.54E+00	0.210732257	10
0.319395147	8	2.66E-02	2	8
2	6	1.57E-05	1	6
-0.036526624	10	2.65E-01	0.856303027	10
-0.449911788	41	7.60E+03	3	41
-0.166443202	53	3.90E+00	0.176028486	53
-0.539265476	8	8.50E+00	-0.792709329	8
-1	4	1.97E+01	-0.346517278	4
-0.124218932	11	5.41E-01	0.000563707	11
0.274166822	4	9.82E-02	-0.246435427	4
1	9	2.99E-05	-0.285919981	9
0.828357601	6	2.98E-03	-0.783793573	6
-0.200257158	11	1.05E+00	-0.531484919	11
-0.519788082	8	7.46E+00	-0.691406497	8
-0.290089296	41	8.19E+01	-0.014545744	41
0.101878778	9	1.00E-01	0.062906368	9
-0.357757451	5	1.54E+00	0.126498028	5
0.890855081	3	1.51E-02	-0.466243318	3
0.457105873	7	1.53E-02	-0.181987918	7

-0.357651464	9	2.96E+00	-0.591625472	9
0.106403964	6	1.47E-01	-0.324807417	6
0.082093342	16	4.84E-02	-0.179852957	16
-0.293521308	13	3.00E+00	-0.473739983	13
1	11	2.84E-05	0.967852677	11
0.549011583	7	8.76E-03	0.138013231	7
0.000271451	16	1.29E-01	0.227509005	16
0.138669661	5	1.46E-01	-0.022897622	5
0.27048755	16	5.08E-03	0.306167897	16
0.09846003	32	4.56E-03	0.24540234	32
-0.335013154	4	1.19E+00	-0.022786754	4
-1	4	3.49E+01	-1	4
-1	3	4.30E+01	-0.370048511	3
-2	6	1.36E+04	-1	6
-2	1	7.02E+01	-2	1
-2	9	3.40E+06	-2	9
-0.962128001	8	1.45E+02	-0.807482237	8
-0.185520174	6	7.14E-01	-0.355050504	6
-1	8	7.44E+02	0.113075016	8
-0.588098359	7	8.61E+00	-0.692142154	7
-0.157346725	5	5.94E-01	-0.468150382	5
0.268579356	7	4.79E-02	0.301721568	7
0.059753852	12	9.81E-02	0.332114936	12
-0.526494422	5	3.43E+00	-0.287764872	5
-0.273488784	2	7.44E-01	0.016914879	2
-0.463521915	3	1.59E+00	-0.253870034	3
-1	7	1.52E+02	-0.743699882	7
-0.605110594	21	9.14E+02	-0.263957559	21
-2	8	1.48E+04	-1	8
-0.017582614	4	3.24E-01	-0.038243451	4
-0.479361986	9	7.25E+00	-0.439414299	9
-0.059574053	32	1.58E-01	1	32
-0.666558601	7	1.39E+01	0.405758338	7
-0.552533557	15	7.14E+01	-0.339529427	15
-0.35486713	11	4.00E+00	0.263480254	11
-1	7	1.02E+03	0.236470005	7
-1	17	3.90E+05	-1	17
-0.677431407	2	2.29E+00	-0.502405096	2
-1	2	6.63E+00	-0.819966514	2
-0.358450244	7	2.14E+00	-0.655591179	7
-2	4	3.59E+02	-0.071656384	4
-0.567431272	10	1.88E+01	-0.349886497	10
-0.795691086	16	1.75E+03	-2	16
0.297459127	19	1.66E-03	-0.906556522	19
-0.5581059	11	2.34E+01	-1	11
-0.866111442	15	2.47E+03	-0.182780289	15
-0.189783349	4	6.56E-01	-0.386861116	4

-0.425224	3	1.40E+00	-0.776151858	3
-1	6	2.20E+02	-0.240262209	6
-0.545291916	1	1.19E+00	-0.054098734	1
-0.046572439	1	4.12E-01	-0.029233508	1
-1	5	2.39E+02	-0.806074454	5
-0.765529457	10	9.20E+01	-0.819948402	10
-0.436374749	7	3.43E+00	-0.723531989	7
-0.035738504	2	3.84E-01	-0.072941891	2
-0.468070952	6	3.29E+00	-0.399880209	6
-0.27994112	5	1.06E+00	-0.302516395	5
-0.935969267	4	1.39E+01	-0.245450734	4
-0.591227486	7	8.78E+00	-0.44505409	7
-0.603412729	5	4.94E+00	-0.731877347	5
-0.040832442	1	4.07E-01	0	1
-0.489206004	14	2.72E+01	-1	14
-0.850990253	4	9.83E+00	-0.376351727	4
-2	6	1.07E+05	-0.815404146	6
0.0778743	3	2.48E-01	-0.071985614	3
-0.248415619	1	6.33E-01	-0.225695944	1
-0.280618243	5	1.07E+00	-0.38329445	5
-0.081653933	4	4.22E-01	-0.216616719	4
-0.605538536	4	3.60E+00	-0.303739431	4
0.146304416	13	3.70E-02	-0.731887703	13
0.034145323	3	2.88E-01	-1	3
-0.451097584	4	1.91E+00	-0.381097757	4
-0.181407124	7	7.33E-01	-0.57287648	7
-0.349145532	5	1.48E+00	-0.565966036	5
1	8	4.02E-05	-0.467313633	8
0.510368195	6	1.66E-02	0.048109604	6
-0.633052081	11	4.48E+01	0.040041385	11
-0.400815668	12	7.23E+00	-0.34274939	12
1	9	7.12E-05	-0.42700626	9
0.017142233	2	3.31E-01	0.115087948	2
-0.00948026	15	1.54E-01	-0.557944726	15
-1	5	4.32E+01	-0.591140732	5
-0.442793794	6	2.87E+00	0.150906031	6
0.379209271	17	1.01E-03	0.005336364	17
-0.110838941	8	4.79E-01	-0.440004542	8
-0.053858711	7	3.38E-01	-0.065725449	7
0.135608302	8	9.15E-02	0.044303294	8
0.053418931	8	1.59E-01	-0.385394437	8
-0.750007776	7	2.30E+01	-0.166867007	7
0.281103787	6	5.73E-02	-0.351689369	6
-0.674471832	31	1.08E+05	0.056527373	31
0.246209581	5	8.73E-02	0.38146708	5
-0.608997839	8	1.36E+01	0.256384294	8
-3	5	4.64E+04	-0.43074198	5

-0.911242512	24	4.71E+05	-0.451348343	24
-1	2	1.68E+01	-0.666686878	2
-0.000950783	12	1.73E-01	0.425834649	12
-0.311931979	7	1.62E+00	0.502541821	7
0.682669471	4	1.85E-02	1	4
-0.43490594	7	3.40E+00	0.961094514	7
-0.262852269	3	8.00E-01	-0.265575996	3
-2	3	1.27E+02	-0.60137213	3
0.234625806	7	5.89E-02	0.081411328	7
0.240226255	1	2.24E-01	0.031320139	1
-0.266168799	72	1.03E+03	-0.22326739	72
-0.529867481	10	1.39E+01	-0.576971263	10
0.25895414	3	1.33E-01	-0.079260111	3
-0.533097489	13	3.28E+01	-0.522758251	13
0.016796061	4	2.82E-01	-0.514821917	4
-0.517385075	5	3.28E+00	-0.34928036	5
-0.61812889	8	1.44E+01	-0.849214206	8
-0.316911764	4	1.10E+00	-0.029728925	4
-0.390754544	10	4.54E+00	0.189398192	10
-0.522587633	11	1.72E+01	0.322815716	11
-0.602140193	5	4.91E+00	0.036727689	5
-0.178428111	3	5.98E-01	0.05165412	3
0.359607584	8	2.03E-02	0.346000836	8
0.072631084	8	1.40E-01	0.310310138	8
0.25322285	11	2.04E-02	1	11
-0.309739434	13	3.53E+00	2	13
-0.55428822	3	2.18E+00	0.138086862	3
-0.103544029	2	4.64E-01	-0.226705289	2
-0.057891707	3	3.95E-01	-0.950933563	3
0.961543042	7	7.19E-04	-0.048991934	7
3	23	1.15E-21	-0.425089858	23
1	10	6.95E-06	-0.857681118	10
-0.1909448	5	6.96E-01	-0.71112713	5
-0.914729413	3	7.52E+00	-0.53160226	3
0.013505188	28	4.22E-02	-0.203466637	28
0.5344068	4	3.39E-02	0.9342798	4
-0.182977289	3	6.08E-01	2	3
-0.243887731	18	2.85E+00	1	18
-1	5	3.50E+01	-0.563075828	5
-1	18	1.28E+05	-0.965361744	18
-0.781884552	8	4.34E+01	-1	8
-0.434893252	7	3.40E+00	-0.721580886	7
-1	4	2.64E+01	-0.859766805	4
-1	4	4.12E+01	-0.653837392	4
-2	4	4.52E+02	-0.599293786	4
-0.531752078	6	4.64E+00	-0.901563767	6
0.168026394	5	1.27E-01	-0.556378498	5

2	10	1.11E-06	-0.695516473	10
-1	4	5.11E+01	-2	4
-0.217919842	10	1.13E+00	-1	10
-2	20	5.80E+10	-2	20
-0.838945154	4	9.36E+00	-0.816360008	4
-0.961721941	2	5.05E+00	-0.321169917	2
-0.414107872	20	4.07E+01	1	20
0.53594517	24	7.26E-06	-0.25745311	24
-0.538789566	3	2.07E+00	-0.939858262	3
0.783512099	25	5.72E-08	-0.21588022	25
0.799803934	6	3.48E-03	0.331371782	6
-0.425026736	10	5.98E+00	-0.004577881	10
-0.194659875	11	9.96E-01	-0.428664922	11
-0.230426257	6	9.10E-01	-0.886163583	6
-0.541843384	13	3.58E+01	-1	13
-0.766307661	9	6.01E+01	-0.87550058	9
0.496613169	2	8.73E-02	1	2
0.513109755	16	2.79E-04	-0.532947572	16
-0.347810316	9	2.75E+00	-0.57823474	9
-0.388445741	10	4.46E+00	0.22226881	10
-2	9	1.39E+04	2	9
1	2	1.52E-02	-0.009008991	2
0.951911213	5	3.06E-03	0.024435293	5
-0.286280278	34	3.24E+01	0.576986899	34
-0.736281559	5	9.28E+00	-0.435260689	5
-2	4	2.16E+02	-0.576365696	4
0.111185222	28	6.09E-03	0.973461905	28
-0.817690037	25	1.50E+05	0.251324827	25
0.036892634	9	1.61E-01	0.233055335	9
-0.460055948	3	1.58E+00	-0.660298774	3
-0.542944444	15	6.41E+01	-0.085287296	15
0.735278777	9	9.38E-04	-0.280554544	9
0.450585314	5	3.31E-02	-0.457958926	5
0.238063053	14	1.18E-02	-0.029340173	14
-1	10	1.72E+03	-0.028023733	10
-0.12453552	24	6.24E-01	-0.108137753	24
0.148291042	2	2.30E-01	-0.170012592	2
-0.782619174	6	1.80E+01	0.787183167	6
-2	3	7.80E+01	0.958170142	3
-0.86993491	37	1.53E+08	2	37
-0.145919913	2	5.22E-01	2	2
-0.343764247	4	1.23E+00	-0.171787605	4
-0.05041047	11	2.85E-01	-0.252348002	11
-0.202684721	8	8.87E-01	1	8
-1	3	1.23E+01	-0.915383792	3
-0.032345877	3	3.62E-01	-0.027126056	3
-0.134065358	5	5.31E-01	-0.260456253	5

-1	8	5.17E+03	-1	8
-0.264177603	3	8.03E-01	-0.25424362	3
-1	1	6.09E+00	-0.693537038	1
-0.058218607	2	4.09E-01	-0.177248866	2
-1	7	1.09E+02	-0.447962467	7
0	1	3.73E-01	-0.200860666	1
-0.00458206	6	2.69E-01	0.165489171	6
0.548627061	4	3.19E-02	-0.277103063	4
-0.101891573	2	4.62E-01	2	2
-0.586634366	1	1.30E+00	2	1
-0.167878459	4	6.00E-01	1	4
-1	5	3.38E+01	0.726790793	5
-1	7	1.44E+02	0.121187569	7
0.775736334	8	1.24E-03	0.329897908	8
3	22	2.57E-19	-1	22
0.055304793	2	2.98E-01	-0.002169258	2
-0.95900397	17	2.16E+04	-0.498722565	17
-0.025477003	4	3.35E-01	-0.715008279	4
0	1	3.73E-01	-0.038431155	1
-0.564584326	8	1.01E+01	-0.50196995	8
-0.894110688	7	5.50E+01	-0.823688497	7
-0.96937355	14	4.52E+03	-2	14
-0.153215351	9	6.55E-01	-0.308967695	9
0.620962908	7	5.67E-03	-0.427511911	7
0.595808147	21	1.03E-05	0.047994624	21
-2	10	1.24E+05	-1	10
-0.569936379	38	9.20E+04	-0.428151493	38
-1	12	9.37E+03	-0.439792364	12
-2	11	2.71E+05	1	11
0.875692826	4	8.37E-03	0.682577159	4
-0.538818668	12	2.62E+01	-0.836050825	12
-0.94495486	82	5.53E+19	1	82
-0.565985067	14	6.16E+01	0.655881374	14
-1	13	4.47E+03	-0.639546654	13
-0.255900187	4	8.60E-01	-0.617678415	4
-2	6	1.03E+04	0.30220302	6
-0.403019023	20	3.47E+01	0.049925451	20
-2	7	4.43E+03	-1	7
-0.641450668	10	3.40E+01	-1	10
-1	11	8.79E+03	-1	11
0.564078196	7	8.00E-03	-0.211482874	7
0.128820391	3	2.08E-01	-0.659244674	3
-0.482122232	17	5.26E+01	-1	17
-0.121909044	4	4.97E-01	-0.444653836	4
-0.496728291	12	1.77E+01	-0.139931914	12
0	1	3.73E-01	0	1
-0.326052066	9	2.34E+00	-0.427080227	9

-0.795998823	10	1.17E+02	-0.353252446	10
-0.289577288	29	1.93E+01	-0.45857752	29
-1	3	2.60E+01	-0.525470754	3
-0.501973927	3	1.82E+00	0.332225475	3
-0.556435911	3	2.19E+00	0.323649884	3
0.418617161	9	9.68E-03	-0.166996293	9
1	8	8.23E-05	-0.405976832	8
0.684059216	11	4.85E-04	-0.009265421	11
-0.233212158	5	8.51E-01	-0.488723098	5
0.420370368	10	6.76E-03	-1	10
-0.484191489	6	3.59E+00	-0.616229115	6
-0.969306659	6	4.94E+01	-0.631403706	6
-0.687054127	15	3.27E+02	-2	15
-0.136792833	16	6.63E-01	-0.22136065	16
-0.483987002	21	1.44E+02	0.436830207	21
-1	9	9.86E+03	-0.049978623	9
0.521015763	6	1.57E-02	-0.234339555	6
0.413300337	7	1.99E-02	-0.910606239	7
-0.006753205	4	3.10E-01	-0.570312482	4
-0.703959738	4	5.39E+00	-0.973116555	4
-0.320562668	4	1.12E+00	0.006436505	4
-0.775671328	9	6.44E+01	-1	9
0	2	3.48E-01	-0.285242213	2
-0.610298468	7	9.85E+00	-1	7
-0.768963841	16	1.27E+03	0.667939775	16
-0.412857834	3	1.34E+00	-0.48414527	3
0.69238236	13	1.58E-04	-1	13
0.079155043	7	1.51E-01	-0.341680715	7
0.623796347	8	3.45E-03	-0.450901137	8
1	5	2.37E-04	-0.290812721	5
-0.356233843	12	4.77E+00	-0.878287279	12
-1	16	2.60E+04	-0.476916682	16
-0.901805355	9	1.63E+02	-0.395539117	9
0.970564851	3	1.15E-02	0.486384551	3
0.268175179	21	1.52E-03	0.234002644	21
-0.052799982	18	2.26E-01	0.270118919	18
-0.847445359	7	4.15E+01	-0.484133705	7
-0.332897196	4	1.18E+00	-0.253083093	4
-0.811636563	17	3.36E+03	-0.616096462	17
0.739892198	9	9.07E-04	-2	9
0.374196047	6	3.47E-02	-1	6
-0.231412836	14	1.75E+00	0.42457586	14
2	4	2.88E-04	-0.320070077	4
-1	5	1.46E+02	0.645644429	5
0.138945068	2	2.36E-01	0.609282521	2
1	5	1.59E-03	-0.164627159	5
-0.942718694	6	4.27E+01	-0.445183066	6

0.873814453	6	2.33E-03	2	6
-1	6	1.80E+02	1	6
1	9	1.00E-04	-0.563946764	9
-0.155186124	4	5.70E-01	-0.199313813	4
0.539185627	12	1.12E-03	-0.051461816	12
-0.594304118	8	1.23E+01	-0.247901387	8
-1	6	1.04E+02	-0.499208871	6
-0.42049904	13	1.07E+01	-0.67499804	13
0.182175631	6	9.79E-02	-0.407509788	6
1	14	9.63E-08	-0.085107523	14
-0.014085664	13	1.84E-01	0.452432054	13
-0.6579073	7	1.32E+01	-0.374013568	7
-0.410710627	37	1.13E+03	-0.474484499	37
-0.673370613	24	7.86E+03	-0.765312394	24
-0.304190473	4	1.05E+00	-0.123075323	4
0	2	3.48E-01	-0.489851767	2
-2	8	1.33E+04	-2	8
-0.239695407	11	1.47E+00	-1	11
-0.311376957	3	9.45E-01	-0.378293355	3
0.443550544	12	2.72E-03	0.96753109	12
-0.215541483	1	5.90E-01	1	1
-1	4	3.01E+01	3	4
-0.963021636	13	2.41E+03	2	13
-2	4	4.95E+02	0.849088261	4
-2	5	1.72E+03	-0.12834232	5
-0.145563189	1	5.09E-01	0.062445372	1
-0.489861273	126	4.09E+13	0.022903784	126
-1	26	1.61E+10	0.354880579	26
-0.969853201	10	4.74E+02	-0.419071892	10
-1	13	6.49E+03	0.086897438	13
-0.55084135	7	6.87E+00	-0.121437406	7
-0.423607615	6	2.59E+00	-0.185933491	6
-0.787856015	12	2.68E+02	-0.359306734	12
-0.314440133	70	8.26E+03	-0.344040234	70
-0.78366554	16	1.52E+03	-0.730169456	16
-0.365881644	19	1.70E+01	-0.195810176	19
0.33252575	8	2.44E-02	1	8
0.575533716	9	3.05E-03	2	9
1	5	9.94E-04	1	5
-0.363918081	3	1.13E+00	-0.034755962	3
-1	9	7.86E+02	0.010546794	9
-0.691358334	9	3.46E+01	-0.223521973	9
-0.561844631	6	5.46E+00	-0.787471118	6
-0.550127102	3	2.15E+00	-0.051490121	3
-1	9	4.55E+02	-0.849239212	9
0.146248855	8	8.52E-02	-0.266917611	8
0.256736146	8	4.05E-02	0.286418672	8

2	6	1.15E-05	2	6
-0.25500558	4	8.57E-01	0.522726935	4
0.200750169	12	2.63E-02	0.668337638	12
-0.737517171	5	9.33E+00	0.799111192	5
-0.270899025	19	4.54E+00	0.751054616	19
0.073872676	62	2.22E-04	-0.274378299	62
0.377159801	18	7.51E-04	-0.38533395	18
1	11	7.81E-06	-0.348527371	11
1	6	9.74E-04	0.187611989	6
0.035024961	2	3.15E-01	-0.00888376	2
-0.750083761	6	1.51E+01	-1	6
-0.077107078	12	3.52E-01	-0.841939715	12
2	23	3.76E-13	-0.74872469	23
2	8	6.62E-08	-1	8
-0.575894102	19	3.17E+02	-0.168884477	19
-0.230818668	3	7.16E-01	-0.083069835	3
-0.000364993	5	2.82E-01	-0.045188852	5
-0.183083022	3	6.08E-01	-0.124452199	3
-0.592206872	8	1.21E+01	-0.276774397	8
-1	4	5.50E+01	-0.42804985	4
0.613043677	13	3.49E-04	-0.889728112	13
2	38	2.36E-23	-1	38
1	39	2.66E-17	-1	39
0.318790006	11	1.15E-02	-0.823333393	11
0.085371297	30	7.88E-03	0.710106982	30
-0.151246434	10	6.64E-01	0.167071208	10
-0.339028124	6	1.64E+00	-0.842059763	6
1	4	4.99E-03	0.006479683	4
-0.557920701	13	4.21E+01	2	13
0.017506362	7	2.19E-01	-0.714110363	7
0.095196048	7	1.37E-01	-0.693662649	7
-0.448840521	8	4.63E+00	-0.98856864	8
-0.058335729	2	4.09E-01	-0.831752685	2
-0.33751277	1	7.65E-01	-0.949629474	1
1	5	2.40E-03	0.083257799	5
-0.151834654	21	9.16E-01	1	21
-0.403659198	10	5.04E+00	-0.072221801	10
-2	6	1.49E+03	0.113977844	6
-0.017874607	4	3.25E-01	-0.036845287	4
-0.894353527	21	7.50E+04	0.084984908	21
0.205912634	4	1.30E-01	-0.440431572	4
0.100291491	9	1.01E-01	0.162279866	9
-0.325695559	2	8.61E-01	-0.145185621	2
-0.002978259	2	3.51E-01	-0.187026307	2
-0.741974538	6	1.44E+01	-0.612309477	6
-1	3	1.02E+01	-0.523440103	3
-0.316146038	2	8.38E-01	-0.199460214	2

-1	1	3.53E+00	-0.240618435	1
-1	3	1.48E+01	-0.498681395	3
-0.118806234	3	4.87E-01	-0.052901432	3
-0.211832271	5	7.69E-01	-0.152361899	5
-0.55374288	12	3.01E+01	-0.671032942	12
-0.857698376	11	3.15E+02	-0.936034316	11
-0.401012712	42	2.30E+03	0.129831382	42
-0.249962963	2	6.97E-01	0.155613413	2
0.051076654	3	2.72E-01	0.130659524	3
0.507527061	6	1.69E-02	-0.471277148	6
-0.04401688	4	3.61E-01	-0.076129139	4
0.688238869	26	1.86E-07	-0.291793468	26
0.12960715	9	8.15E-02	-1	9
0.310802066	21	7.95E-04	-0.363324659	21
0.325486732	4	7.96E-02	-0.581537696	4
-0.00788373	8	2.40E-01	-0.083635603	8
-0.854081003	11	3.05E+02	-0.680202358	11
-0.671731481	17	5.75E+02	2	17
-0.052000715	34	1.24E-01	0.630493612	34
-0.040083689	15	2.18E-01	-0.258053062	15
2	3	1.23E-03	2	3
1	24	4.10E-12	2	24
-0.106692799	6	4.66E-01	-0.026469776	6
-0.85602411	3	6.15E+00	-0.246892439	3
-1	5	2.81E+02	-1	5
-0.209097026	12	1.21E+00	-0.065841712	12
0.679212097	6	6.67E-03	-0.621026668	6
2	13	1.53E-08	0.121385863	13
2	17	8.15E-11	-0.838775308	17
0.883820846	10	1.64E-04	0.810928586	10
-0.482836565	9	7.44E+00	-0.714522996	9
0.572309445	17	8.81E-05	-0.191099337	17
0.503641285	16	3.13E-04	0.302437788	16
0.841824386	4	9.62E-03	-0.022617172	4
0.039440799	10	1.44E-01	-0.064531579	10
-0.264725016	10	1.65E+00	-1	10
-0.721430613	5	8.65E+00	0.085166985	5
0.046636623	3	2.76E-01	0.552275048	3
0.04340135	11	1.26E-01	-0.514262261	11
-0.012624683	7	2.63E-01	-0.11145263	7
-2	7	2.50E+03	-0.221923534	7
-0.535267013	55	4.31E+06	0.567400792	55
-0.434225034	13	1.22E+01	0.334505754	13
0.578925955	14	3.13E-04	0.582088791	14
-0.140743535	37	1.09E+00	-0.03204546	37
-0.880427119	6	3.05E+01	-0.515380211	6
-1	12	6.98E+04	0.117261822	12

1	8	1.57E-04	-0.647588755	8
1	8	1.08E-05	-0.255707205	8
-0.402006269	5	1.90E+00	0.036071198	5
-0.100726662	34	3.95E-01	0.260608571	34
-0.338164328	5	1.40E+00	0.371970402	5
0.781528027	64	7.90E-18	1	64
-0.227516046	10	1.23E+00	0.824322301	10
0.055986044	30	1.47E-02	0.581341103	30
-0.681835909	9	3.23E+01	-2	9
0.910670325	21	8.53E-08	-0.002637264	21
0.040350331	14	9.68E-02	-0.49472255	14
-0.520181499	9	9.80E+00	-0.429179899	9
-0.572554085	12	3.59E+01	0.211135695	12
0.096253861	5	1.78E-01	-0.324005558	5
0.230751055	8	4.83E-02	-0.207594876	8
0.132650577	5	1.50E-01	-0.280407266	5
0.037287228	7	1.95E-01	-0.236469315	7
0.156224345	6	1.13E-01	-0.485544411	6
0.379118095	6	3.38E-02	-0.491963034	6
-0.583890091	12	3.99E+01	-0.804418478	12
-0.683294167	25	1.36E+04	-0.755811267	25
-2	7	3.45E+03	-1	7
2	14	6.77E-10	0.474808476	14
-0.156433167	5	5.91E-01	-0.761541092	5
0.435477219	7	1.74E-02	-0.279528137	7
-0.029988383	1	3.98E-01	-0.067312285	1
-0.064628087	6	3.71E-01	-0.177091908	6
-0.807531005	28	4.95E+05	-0.815319773	28
-1	16	6.10E+04	-2	16
-0.621354294	12	5.67E+01	-0.275428963	12
0.442600514	19	2.20E-04	-0.313110193	19
2	4	3.48E-04	1	4
0.348154825	11	8.95E-03	1	11
0.737348694	3	2.57E-02	-0.445267513	3
0.164870026	2	2.20E-01	0.183081165	2
-0.242559416	10	1.38E+00	-0.739366668	10
-1	14	2.02E+04	-1	14
-1	6	1.81E+02	-0.59311744	6
-0.677387916	14	2.02E+02	-0.605837889	14
-2	7	2.57E+03	-1	7
-0.476391773	6	3.44E+00	-0.002027025	6
-1	26	4.63E+07	-1	26
-0.213464244	8	9.53E-01	-0.256834238	8
-0.289643856	13	2.88E+00	0.044899578	13
0.063079779	17	5.43E-02	0.742847117	17
-0.765576651	13	3.35E+02	-0.822063047	13
-0.028942399	1	3.97E-01	0	1

0.443223115	15	9.24E-04	-0.920848282	15
-0.653280491	9	2.61E+01	-1	9
-0.504142409	7	5.18E+00	-0.677961142	7
-0.873867362	13	9.89E+02	0.150222022	13
-0.178501315	3	5.98E-01	2	3
0.039526361	7	1.92E-01	-0.146706942	7
-0.412142479	13	9.81E+00	-1	13
1	11	9.12E-06	-0.270612483	11
2	9	5.81E-08	-0.757279467	9
0.195809109	8	6.10E-02	-0.262293224	8
2	8	8.28E-06	1	8
0.247628475	2	1.75E-01	-0.033009767	2
-0.042439169	4	3.59E-01	-0.312397589	4
0.628592384	3	3.73E-02	-0.421972972	3
0.232926958	4	1.16E-01	-0.776144248	4
-0.674582225	8	2.11E+01	-0.712395663	8
-1	5	7.01E+01	-2	5
-2	4	4.15E+02	-3	4
-0.590846476	8	1.20E+01	-1	8
-0.02347414	1	3.92E-01	-0.0578864	1
-0.348614361	20	1.57E+01	-0.836339036	20
-2	7	6.02E+04	-2	7
1	14	7.02E-08	-1	14
1	6	7.80E-04	-0.711690465	6
-0.722084881	19	2.43E+03	-1	19
-0.092213711	2	4.49E-01	0.022146435	2
-0.288013412	4	9.81E-01	-0.418383789	4
-0.254688735	13	2.03E+00	-0.259829556	13
-0.0791577	4	4.17E-01	-0.511347607	4
-1	9	1.03E+04	-0.483871225	9
-0.181808871	7	7.34E-01	-0.692985165	7
-0.711063065	17	9.45E+02	-0.856040804	17
-0.692851017	14	2.38E+02	-1	14
-0.100575233	6	4.51E-01	-0.344338687	6
-0.926094775	15	4.87E+03	0.086296633	15
0.492470021	16	3.57E-04	-0.37220136	16
-0.297779824	5	1.16E+00	-0.687882867	5
-0.297289941	17	5.11E+00	-0.253652165	17
-0.366645892	2	9.64E-01	-0.417162145	2
-0.683902631	4	4.96E+00	-0.241724683	4
-0.276767451	13	2.54E+00	2	13
-0.792438154	9	7.29E+01	-0.594740485	9
-0.490044231	38	1.12E+04	-0.238681927	38
1	15	9.56E-08	0.466582695	15
-0.076828954	11	3.58E-01	0.138963537	11
-1	15	7.66E+05	0.12929683	15
-0.913657599	6	3.65E+01	0.521404921	6

-1	22	1.99E+08	-1	22
-2	6	1.05E+03	-1	6
0.955556588	5	3.01E-03	0.257632728	5
0.977724065	3	1.12E-02	0.287488368	3
-0.069490979	16	2.96E-01	0.131502084	16
-0.225989569	4	7.61E-01	-0.436483993	4
0.335934019	7	3.19E-02	-0.77993446	7
-0.387926865	6	2.13E+00	-0.859385665	6
-0.318347945	7	1.68E+00	-0.473594569	7
-0.720053687	3	3.85E+00	-1	3
-0.805383833	10	1.27E+02	-0.771011815	10
-0.680938608	8	2.20E+01	0.51283966	8
-1	5	1.08E+02	2	5
-0.677748487	27	2.60E+04	-0.664571219	27
-1	7	1.19E+02	-0.255410001	7
-0.18087329	3	6.03E-01	-0.080214633	3
-1	54	1.12E+18	-1	54
1	4	9.78E-04	-0.645913014	4
-0.237359434	6	9.45E-01	-0.83725413	6
-0.444877744	6	2.90E+00	-0.908454326	6
0	2	3.48E-01	-0.27967053	2
-0.00634254	7	2.54E-01	0.041741896	7
-0.021692616	35	5.71E-02	0.079227962	35
-0.386656511	2	1.02E+00	0.324489943	2
-0.490050911	10	1.01E+01	0.218757665	10
-0.173381869	5	6.41E-01	-0.233058716	5
-0.123904771	4	5.01E-01	-0.322236496	4
-0.167632978	4	5.99E-01	-0.059974831	4
-0.430513001	4	1.76E+00	0.693859242	4
0.076720771	6	1.73E-01	2	6
0.038700427	5	2.34E-01	-0.173431596	5
-0.475338625	32	1.79E+03	-0.508304656	32
-0.826353431	16	2.53E+03	-0.587120905	16
0.619474176	3	3.85E-02	-0.154725143	3
0.159163947	2	2.23E-01	-0.348115793	2
-2	18	1.32E+09	-2	18
-0.037075532	4	3.51E-01	-1	4
-1	11	6.73E+04	-2	11
-0.863536692	8	7.50E+01	-0.449421849	8
-0.282037525	5	1.07E+00	-0.150495911	5
0.302050233	14	5.96E-03	-0.189294141	14
-1	8	3.78E+02	-1	8
-2	13	5.44E+07	-2	13
-1	12	3.38E+04	-1	12
-0.088819938	4	4.34E-01	-0.081680571	4
-0.183213181	5	6.71E-01	0.19975862	5
-0.811043658	4	8.35E+00	-0.755685319	4

-0.025853759	2	3.74E-01	-0.077553712	2
-0.096577705	3	4.52E-01	-0.004148927	3
-2	9	1.54E+04	-2	9
-0.93737075	15	5.53E+03	-2	15
-2	12	5.87E+06	-1	12
-0.660338614	18	7.16E+02	-0.585299854	18
-0.6487698	30	4.32E+04	1	30
-0.7623673	11	1.38E+02	-0.791626909	11
-0.738480707	44	9.36E+07	-0.250569799	44
-0.966283093	9	2.63E+02	-0.437638402	9
-0.551809242	7	6.91E+00	-0.329162239	7
-0.120387379	10	5.19E-01	0.195275666	10
-3	4	2.25E+04	-1	4
-0.327947926	8	2.06E+00	1	8
-1	9	7.99E+03	0.839475477	9
-0.59557159	71	6.88E+09	1	71
0.306625748	19	1.46E-03	-1	19
0.009564279	6	2.49E-01	-1	6
-0.669949931	11	6.17E+01	-0.23951473	11
-0.062606249	11	3.17E-01	0.041182575	11
0.032948478	32	1.98E-02	0.907954589	32
0.51972753	9	4.60E-03	1	9
-0.592665086	31	1.81E+04	-1	31
2	4	2.33E-05	-1	4
1	7	1.84E-04	-0.730325849	7
-0.486211716	16	4.33E+01	-0.709639721	16
-1	2	1.24E+01	0.200038712	2
-0.556103748	19	2.41E+02	-0.513986287	19
0.120856252	18	2.25E-02	0.189899863	18
-0.296142483	14	3.48E+00	-0.680809292	14
-0.707798186	4	5.47E+00	-0.658471635	4
-1	6	1.36E+02	0.306922859	6
-0.873586747	20	3.31E+04	0.812212014	20
-1	111	9.34E+32	-2	111
-0.898377843	5	2.00E+01	-1	5
-0.238606128	3	7.36E-01	-0.035673181	3
2	4	3.48E-04	0.220870226	4
1	6	1.10E-04	0.134459062	6
-0.03938974	4	3.55E-01	-0.447939356	4
-0.810886701	10	1.32E+02	-0.880691608	10
-0.058433174	7	3.48E-01	-1	7
-0.513719256	14	3.53E+01	-0.336085783	14
0.55953127	6	1.27E-02	-0.527246703	6
1	24	3.66E-12	0.025491448	24
-0.010036592	8	2.43E-01	-0.133909099	8
-1	8	7.37E+02	-0.570498208	8
0.233681658	5	9.27E-02	-0.180988857	5

-1	36	1.62E+12	0.145275888	36
-2	3	8.38E+01	-0.645937947	3
-0.171477828	6	6.62E-01	-0.935817492	6
-0.026611886	7	2.87E-01	-0.158268605	7
-1	7	3.12E+02	-1	7
-0.394852587	7	2.67E+00	-0.766106496	7
-0.493991926	2	1.37E+00	-0.074569382	2
-2	15	1.58E+10	-2	15
-0.595845387	11	3.24E+01	0.768729977	11
-0.312389429	18	7.07E+00	-0.630240179	18
-0.941343155	5	2.46E+01	-0.745534017	5
-0.703618553	6	1.17E+01	-0.827903812	6
-0.284075354	9	1.72E+00	0.092008589	9
-0.220576661	6	8.63E-01	-0.55615426	6
-0.388068175	5	1.78E+00	-0.515271888	5
-2	6	3.74E+03	0.293197446	6
-0.38665944	6	2.12E+00	0.300201896	6
0.109734421	13	5.33E-02	0.248525559	13
-0.088405467	10	4.01E-01	-0.21660983	10
0.257479477	11	1.97E-02	-0.113009642	11
-0.173979891	10	7.97E-01	0.045379038	10
-0.016206427	18	1.39E-01	-0.51460423	18
1	7	6.55E-05	0.502073013	7
-0.043834781	2	3.93E-01	-0.015234527	2
-1	7	3.78E+02	-0.004608386	7
-0.191611081	44	5.92E+00	2	44
-0.461434243	16	3.22E+01	0.837757439	16
-0.240628749	10	1.36E+00	-0.206407636	10
-0.714190309	3	3.77E+00	0.065325371	3
-0.789277339	50	6.36E+09	0.855415331	50
-0.774333249	12	2.36E+02	-0.995145502	12
-0.03407238	4	3.47E-01	-0.424298715	4
-0.323177953	8	1.99E+00	-1	8
-0.039781289	5	3.40E-01	-0.25516227	5
-0.651602657	8	1.81E+01	-0.058984156	8
-0.719949255	60	3.27E+10	2	60
-0.298733352	15	4.06E+00	-0.232478875	15
-0.778205635	18	3.42E+03	-2	18
-0.22763841	9	1.13E+00	-0.667924404	9
1	10	4.73E-06	0.357640316	10
0.812644191	8	9.70E-04	0.7317414	8
-0.184331543	16	1.17E+00	0.461663655	16
0.212943536	16	1.01E-02	-0.524937719	16
0.751713955	7	2.57E-03	0.205617192	7
-0.074844567	11	3.52E-01	-0.387593037	11
0.147583746	6	1.18E-01	-0.860022766	6
0.310413838	5	6.44E-02	-0.47091033	5

-0.078876195	8	3.86E-01	0.080229329	8
0.302146224	24	4.05E-04	-0.171248633	24
-0.106427199	9	4.64E-01	-0.032800522	9
-0.198796849	6	7.67E-01	0.124407047	6
-1	11	3.38E+04	-0.891535739	11
-0.75585947	8	3.64E+01	2	8
0.865733314	19	6.07E-07	0.046448328	19
0.089866196	4	2.09E-01	0.260837764	4
0.012600521	23	6.38E-02	0.277355974	23
0.152576774	3	1.92E-01	1	3
0.815828626	13	4.60E-05	-0.824203682	13
0.218425033	23	2.12E-03	-0.230253625	23
-0.705031694	19	1.92E+03	-0.996720272	19
-0.171542179	10	7.82E-01	-1	10
-0.112795611	6	4.82E-01	-0.250123721	6
1	4	1.43E-03	-0.092387977	4
0.151815446	5	1.37E-01	-1	5
-1	11	1.98E+03	-1	11
-0.711627019	46	9.15E+07	-0.655434981	46
-0.450707122	23	1.36E+02	-0.652919497	23
-0.014130842	16	1.53E-01	2	16
-0.046108373	6	3.36E-01	0.215263133	6
1	19	1.94E-08	0.110459673	19
0.14803129	14	3.07E-02	-0.531984939	14
2	4	1.19E-04	1	4
1	12	4.40E-06	0.413335405	12
-1	11	1.23E+03	0.017115641	11
-0.8344368	6	2.38E+01	-0.901166695	6
-0.957611403	2	4.99E+00	-0.569997735	2
-0.257987381	4	8.68E-01	-0.350393868	4
-0.313964934	12	3.21E+00	-0.59944919	12
-0.684334285	32	1.95E+05	-0.523002164	32
-0.890059207	5	1.93E+01	-0.275966551	5
-0.451490693	1	9.75E-01	-0.013716052	1
-0.675609502	8	2.12E+01	-0.197343226	8
-0.025923029	1	3.94E-01	0.112442671	1
-1	7	2.17E+02	0.061634759	7
-2	11	2.48E+07	-0.858320001	11
-0.455529028	2	1.24E+00	-0.286414902	2
-0.850802323	13	7.86E+02	-0.455391741	13
0.316881321	10	1.55E-02	0.78422117	10
-0.077913068	14	3.41E-01	-0.2981945	14
-0.025503294	2	3.73E-01	-0.031129516	2
-0.977182235	33	2.47E+08	-0.707869528	33
-0.418081468	6	2.51E+00	-0.362269071	6
-0.022378475	2	3.70E-01	-0.027530552	2
-0.195617193	3	6.35E-01	-0.059105641	3

-0.361309878	4	1.32E+00	0.006728456	4
-0.453737392	2	1.23E+00	-0.038036799	2
0.276606512	21	1.34E-03	0.930997988	21
-0.176087754	13	9.27E-01	-0.143222308	13
0.008571688	4	2.91E-01	-0.182634553	4
-0.827968015	15	1.61E+03	-1	15
-0.270799433	14	2.66E+00	-0.347384836	14
-1	16	5.57E+04	-1	16
-1	9	4.03E+02	-1	9
0.437476413	10	5.89E-03	-0.976503319	10
-2	7	1.16E+04	-1	7
-0.021050813	7	2.77E-01	-1	7
0.061843058	6	1.88E-01	-0.331960791	6
-0.812490513	15	1.35E+03	-0.788569138	15
-0.055933812	6	3.54E-01	-0.409208438	6
-0.505126139	18	9.13E+01	-1	18
-0.234388443	19	2.73E+00	-1	19
-0.023893156	4	3.33E-01	0.042515247	4
0.367578262	5	4.91E-02	1	5
-0.026887258	5	3.19E-01	0.458980829	5
-0.294390629	7	1.45E+00	0.332817978	7
0.597909629	12	6.44E-04	-0.046444526	12
-0.203072987	2	6.12E-01	-0.091311956	2
-0.610032743	36	1.37E+05	0.12952016	36
-0.915181149	10	3.06E+02	-0.284293426	10
0.101910582	20	2.20E-02	0.420981961	20
0.39790379	6	3.05E-02	0.519499352	6
-0.259401759	15	2.60E+00	-0.349781856	15
-1	10	1.10E+03	-0.727523623	10
-0.215358559	11	1.19E+00	1	11
-0.488414517	19	9.38E+01	2	19
-0.300170708	4	1.03E+00	0.052921225	4
-0.789726918	8	4.57E+01	-0.543136736	8
-0.399640635	20	3.30E+01	-0.19663606	20
0	1	3.73E-01	-0.156566133	1
-0.315316552	6	1.44E+00	-0.398454627	6
0.444624108	3	7.02E-02	-0.012970046	3
-1	4	1.98E+01	-0.671749602	4
-0.614493924	11	3.81E+01	-2	11
-0.341623353	2	9.00E-01	-0.015215071	2
-2	3	1.12E+02	-0.604473599	3
0.227398628	13	1.65E-02	-0.327289064	13
-2	4	2.04E+03	-0.895214821	4
-0.973873412	6	5.06E+01	-0.577268716	6
0.267894227	15	6.71E-03	-0.549875323	15
-0.884677719	5	1.88E+01	-2	5
0.090481081	8	1.24E-01	-4	8

0.318004765	22	5.39E-04	-0.115656737	22
-0.116228776	10	5.02E-01	-0.92746367	10
-0.135943426	9	5.77E-01	-0.55861553	9
-0.966653328	8	1.50E+02	-0.651668943	8
-0.302838553	18	6.23E+00	-0.968387966	18
0.132318013	3	2.06E-01	0.339734288	3
0.244276109	7	5.55E-02	-0.018934425	7
-0.235625295	8	1.11E+00	-0.550772538	8
-2	7	3.81E+04	-0.905816547	7
-0.03621258	4	3.50E-01	-0.029564409	4
-0.187268797	2	5.85E-01	-0.029782128	2
0.450274003	26	1.52E-05	0.834577972	26
0.384452174	6	3.28E-02	-0.107348339	6
0.559391768	4	3.06E-02	-0.237577303	4
-0.373153859	11	4.69E+00	0.13274253	11
-0.111036891	4	4.75E-01	-0.349784438	4
-1	11	5.13E+04	-1	11
-0.894628982	17	9.57E+03	-1	17
0.359408575	9	1.50E-02	-0.748314589	9
-1	6	1.09E+02	-0.454135644	6
-2	3	6.23E+01	-0.10268603	3
0.169842647	9	6.06E-02	-0.439512824	9
-0.508731008	47	1.95E+05	0.138880047	47
-0.698091874	4	5.26E+00	0.513194006	4
-0.597323102	11	3.29E+01	-0.847009961	11
-0.140554276	9	5.97E-01	-0.331751911	9
-0.692498796	6	1.11E+01	-0.263997939	6
-2	17	4.53E+08	-1	17
-0.932924161	8	1.20E+02	-0.617964987	8
0.5366918	3	5.12E-02	-0.163699894	3
-0.171593065	20	1.19E+00	-1	20
-0.540440781	4	2.76E+00	-0.928893388	4
-0.476762556	12	1.47E+01	-2	12
-1	13	5.63E+04	-1	13
0.658119307	6	7.47E-03	0.303479252	6
-0.161185886	22	1.09E+00	-0.139472661	22
1	8	7.85E-05	0.952008097	8
0.085656017	6	1.65E-01	0.324693516	6
-0.108104829	8	4.70E-01	-0.064913105	8
0.918933073	1	5.28E-02	-0.227028241	1
0.083767299	6	1.67E-01	-0.003008118	6
2	8	2.26E-06	2	8
-0.200382694	9	9.28E-01	0.929236389	9
-1	9	1.51E+03	0.049850252	9
-1	17	6.77E+04	-0.611055771	17
0.454861118	9	7.41E-03	-0.084681499	9
0.463540805	6	2.14E-02	1	6

-0.277688852	7	1.31E+00	2	7
-0.421154206	6	2.55E+00	-0.075313289	6
-0.517718794	7	5.62E+00	-0.644052257	7
-0.836074029	13	6.78E+02	-0.708112647	13
0.715045893	2	4.75E-02	-0.251739268	2
-0.174627791	12	8.75E-01	-0.243448362	12
0.113526741	4	1.90E-01	0.406667254	4
-0.039166144	14	2.26E-01	-0.336635085	14
0.038918771	6	2.12E-01	0.311912393	6
-0.543559011	8	8.75E+00	-0.964103524	8
-2	6	1.32E+03	-2	6
-0.839732867	9	1.03E+02	-1	9
-0.960363691	11	7.68E+02	-0.75516604	11
-0.289049686	5	1.11E+00	-1	5
-0.500643809	3	1.81E+00	-0.710904461	3
-0.550011518	8	9.14E+00	-0.420112942	8
-1	11	8.28E+04	-0.902948052	11
-0.443608767	9	5.57E+00	-0.249323303	9
-0.082532041	5	4.16E-01	1	5
-0.840524909	3	5.83E+00	-0.524824164	3
0.163130358	44	1.27E-04	-0.196299987	44
-0.286115856	6	1.23E+00	-0.780795597	6
-2	12	4.55E+05	-0.536335513	12
0.099356756	10	8.89E-02	0.636439916	10
0.110526828	19	2.24E-02	0.286588057	19
-0.222232449	54	3.17E+01	-0.426419733	54
-0.33014384	1	7.53E-01	0.07231721	1
-0.439156344	15	1.98E+01	-0.960608805	15
-0.781558742	5	1.15E+01	-1	5
0.149388147	16	2.16E-02	-0.516037603	16
-0.87250187	11	3.58E+02	-0.468415605	11
0.352844135	2	1.30E-01	-2	2
-0.036531818	8	2.91E-01	-1	8
-0.619082138	9	2.03E+01	-1	9
0.470861581	7	1.41E-02	-1	7
-1	6	5.46E+02	0.040216591	6
-0.5011812	5	3.04E+00	-0.217211742	5
-0.215128085	1	5.90E-01	0.227285411	1
-0.571035686	13	4.80E+01	-0.285857439	13
0.544569254	15	2.94E-04	0.774088014	15
-0.400342449	4	1.55E+00	0.709610655	4
-0.944490116	3	8.33E+00	0.805602897	3
-0.046572439	1	4.12E-01	-0.009810468	1
-0.001844498	15	1.41E-01	-0.137158001	15
-2	7	3.53E+03	-0.306688235	7
-1	3	1.17E+01	-0.702722936	3
-0.334135125	4	1.19E+00	-0.212153208	4

-1	25	4.60E+07	-0.784469782	25
-2	2	9.97E+01	-1	2
-1	8	7.86E+02	-1	8
0.161449961	30	1.58E-03	0.391456238	30
-1	8	7.69E+02	-0.281673836	8
-0.179384884	6	6.91E-01	-2	6
-1	2	8.32E+00	-0.370339378	2
-1	5	4.96E+01	1	5
-0.680471368	16	4.41E+02	-0.976634972	16
1	14	2.42E-07	-2	14
0.23130033	12	1.98E-02	-0.817155938	12
-0.135706056	8	5.66E-01	-0.16207105	8
1	6	2.61E-04	0.02310153	6
-1	3	1.44E+01	-1	3
-0.789706616	7	2.92E+01	-1	7
-1	17	3.25E+05	-0.000808207	17
-0.360513993	3	1.12E+00	2	3
-0.418537354	13	1.05E+01	0.921521811	13
0.028401962	4	2.69E-01	0.505927709	4
-1	19	1.08E+08	-1	19
0.195944729	12	2.75E-02	-0.432752058	12
-0.284413652	14	3.07E+00	-0.30126237	14
-0.884441326	4	1.13E+01	-0.318978627	4
0.56662401	17	9.46E-05	-0.540108295	17
-2	12	3.00E+06	-2	12
-0.664405395	25	9.70E+03	-0.471848794	25
-0.172274149	3	5.86E-01	-0.100006528	3
-0.167885771	26	1.42E+00	-0.259464722	26
-0.033727949	33	8.44E-02	-0.384825108	33
-1	6	4.59E+02	-0.972404018	6
0.485622598	10	4.00E-03	1	10
-3	11	4.49E+09	-0.471943121	11
0.264545774	15	6.96E-03	-0.067877616	15
-1	8	4.11E+02	-0.223099679	8
-0.369022589	14	7.56E+00	1	14
0.329264121	24	2.54E-04	0.284112716	24
-0.218640217	7	9.18E-01	-0.422276724	7
-1	8	3.36E+03	-0.478914027	8
-0.010137368	15	1.55E-01	0.879451892	15
-0.775127197	24	4.53E+04	0.942683404	24
-0.109518578	5	4.73E-01	2	5
-0.249305652	5	9.19E-01	0.318895968	5
-0.441295963	2	1.19E+00	0.276602953	2
-0.143070739	9	6.08E-01	0.454073739	9
2	9	8.17E-07	-0.482714654	9
0.616169297	3	3.89E-02	-0.007097539	3
-2	17	9.85E+09	-2	17

-2	11	3.97E+06	-2	11
-0.026949086	2	3.75E-01	-0.020888551	2
-1	6	1.29E+02	0.055974778	6
-0.078126311	3	4.24E-01	-0.195538292	3
-0.185489997	4	6.45E-01	-0.429104412	4
0.409320048	3	7.93E-02	-0.684478106	3
-0.852664041	7	4.28E+01	0.157291632	7
-0.015267615	3	3.41E-01	0.193195812	3
-2	3	3.60E+02	0.677695574	3
-0.545695684	8	8.88E+00	0.311470618	8
-1	39	1.92E+11	0.446517138	39
-1	7	4.28E+02	-0.738196867	7
-0.659987228	15	2.41E+02	-0.799360281	15
0.364116506	7	2.69E-02	-0.002658243	7
-0.195274367	69	2.76E+01	-0.334565738	69
0.730293567	10	5.62E-04	0.002253521	10
2	4	9.51E-05	2	4
0.116273558	8	1.04E-01	2	8
-0.333529211	22	1.69E+01	-1	22
-0.044487809	1	4.10E-01	0	1
-2	5	1.16E+03	-0.604443541	5
0.410818604	6	2.84E-02	-0.697102076	6
-0.014993348	15	1.64E-01	0.132756759	15
-0.233736423	3	7.24E-01	-0.108320881	3
-0.759030644	22	1.46E+04	-1	22
0.66450409	3	3.30E-02	-0.480634446	3
0.344666437	5	5.47E-02	0.087281133	5
0.444804394	7	1.65E-02	0.333237891	7
0.008622621	46	1.17E-02	-0.158476464	46
-0.014899034	6	2.84E-01	-0.510843973	6
-0.310350339	3	9.42E-01	-0.326805286	3
-1	4	5.50E+01	-1	4
-0.396229298	11	5.73E+00	-0.30679881	11
-0.614068115	21	1.05E+03	-0.358320716	21
-1	9	5.72E+03	-0.73955987	9
-0.162533242	13	8.10E-01	-0.38107435	13
1	10	3.89E-05	-0.656940445	10
-0.272366044	13	2.43E+00	-0.270936459	13
0.282261226	4	9.50E-02	0.093238606	4
-0.371330085	20	2.18E+01	-0.062948604	20
-0.332281069	8	2.12E+00	-0.199503508	8
-0.375679712	19	1.95E+01	-0.39340263	19
0.070270479	5	2.01E-01	-0.016861692	5
-0.430269322	23	9.72E+01	0.129735463	23
-0.954786965	28	9.16E+06	0.146342678	28
-0.081144159	20	3.17E-01	-0.433694682	20
0.719383916	7	3.12E-03	2	7

-0.536168074	31	5.29E+03	-0.147766088	31
-0.958441868	10	4.33E+02	-0.77678511	10
-2	7	6.40E+03	-2	7
-0.122422631	2	4.89E-01	-0.100912659	2
-0.702486599	15	3.89E+02	-0.608571943	15
0.326190808	31	3.65E-05	-0.002754214	31
0.032000913	3	2.90E-01	-0.021966856	3
-0.693964734	7	1.64E+01	0.806339793	7
-0.877292837	14	1.70E+03	-1	14
-0.577538632	11	2.77E+01	2	11
-3	4	1.32E+04	-1	4
-2	8	2.81E+04	-0.967291328	8
-0.375136089	5	1.67E+00	0.194944698	5
0.572872514	19	3.58E-05	1	19
0.050993424	16	7.01E-02	-0.531633491	16
0.403174287	8	1.52E-02	-0.737925665	8
0.208439347	7	6.90E-02	0.355353381	7
-0.849492143	44	2.71E+09	0.647043205	44
-0.757870542	13	3.10E+02	-2	13
-0.073500912	9	3.64E-01	-0.654641941	9
-0.510762777	2	1.44E+00	-0.424073603	2
-0.025607708	5	3.18E-01	0.328216434	5
0.644688236	27	2.54E-07	0.144974602	27
0.167153634	4	1.52E-01	-0.058511027	4
0.260890477	7	5.02E-02	-0.144169634	7
0.471647195	18	2.14E-04	0.063031083	18
1	14	1.32E-06	0.110906528	14
-0.746250326	20	5.17E+03	-0.560730878	20
-0.317708615	9	2.20E+00	-0.04866885	9
0.111867703	9	9.29E-02	-0.943587308	9
-0.485459782	29	1.07E+03	-0.031427708	29
-0.384778217	13	7.46E+00	-0.270985789	13
-0.0198595	5	3.09E-01	-0.157226678	5
0.618925217	6	9.24E-03	-0.752326747	6
0.043294922	3	2.79E-01	-0.306347275	3
0.275138549	4	9.79E-02	-0.118231958	4
0.102334141	9	9.96E-02	-0.164786227	9
0.137001209	3	2.02E-01	-0.333568209	3
-0.696727476	16	5.36E+02	-0.645219872	16
0.602047055	14	2.44E-04	-1	14
-0.400917232	4	1.56E+00	-0.828878876	4
0.29046413	8	3.23E-02	-0.836850851	8
-0.636582427	3	2.89E+00	-0.183626254	3
-0.320102741	11	2.96E+00	-0.417018904	11
0.013919552	3	3.09E-01	-0.010566853	3
-0.573625983	10	1.97E+01	-0.709417745	10
-0.760189445	9	5.75E+01	-1	9

-0.020269619	13	1.95E-01	-1	13
-0.086626963	6	4.18E-01	-0.755731669	6
1	11	6.76E-06	-0.336400261	11
0.062155986	2	2.92E-01	0.03809736	2
-0.756146598	1	1.86E+00	0	1
0.143736655	6	1.20E-01	0.159712483	6
0.137614822	5	1.46E-01	0.477047625	5
-0.294572719	12	2.68E+00	-0.518000306	12
-0.381414271	5	1.72E+00	0.052433962	5
-0.528189666	12	2.37E+01	-0.064878902	12
-0.565240451	14	6.11E+01	-0.259761796	14
-0.711838113	5	8.26E+00	-0.525869779	5
-1	8	6.00E+02	-0.821633163	8
-0.345194457	6	1.69E+00	-0.105614634	6
-0.369375583	6	1.93E+00	-0.442567755	6
0.072031309	5	2.00E-01	-0.322076968	5
-1	8	2.03E+03	-1	8
0.093458412	8	1.21E-01	-0.538291062	8
0.338596304	5	5.63E-02	-0.442159468	5
-0.222878175	5	8.10E-01	-0.975903733	5
-0.719776626	2	2.58E+00	-0.545696082	2
0.882258894	8	6.08E-04	-0.292055333	8
0.000111232	5	2.81E-01	-0.318623815	5
1	6	2.08E-04	-0.529095836	6
1	3	8.14E-03	-0.968326993	3
-0.484617155	7	4.60E+00	-0.716582171	7
-1	5	6.22E+01	-0.399109691	5
-2	6	1.74E+03	-2	6
-0.993997095	2	5.53E+00	-1	2
-0.338966531	10	3.00E+00	-1	10
-1	26	1.80E+08	-0.892602254	26
-0.457541728	13	1.54E+01	-0.533532056	13
-0.613164168	15	1.42E+02	-0.457970559	15
-0.008639195	5	2.93E-01	-0.233376263	5
-0.141944378	5	5.52E-01	-0.715880837	5
0.584209569	4	2.76E-02	-0.405323794	4
-0.195637971	2	5.99E-01	-0.550391343	2
-0.769087076	8	3.98E+01	-0.394864416	8
-0.290130507	5	1.12E+00	-0.393018449	5
-0.222555349	5	8.09E-01	-0.464008518	5
-0.263913775	7	1.21E+00	-0.431654685	7
-0.287552092	4	9.79E-01	-0.22669826	4
-0.596859619	4	3.47E+00	-0.525653298	4
-0.546828359	5	3.77E+00	-0.171253291	5
-0.887612629	5	1.90E+01	-0.858244973	5
-0.005684172	2	3.53E-01	-0.231953329	2
-0.751333752	2	2.81E+00	-0.90026676	2

0.044617875	7	1.86E-01	-0.36260691	7
0.371228041	6	3.52E-02	0.230377923	6
0.301507785	3	1.15E-01	-0.21709473	3
-0.555733897	14	5.52E+01	2	14
-0.736806058	6	1.40E+01	0.139640152	6
0.143560257	5	1.42E-01	-0.421290989	5
-0.150677029	9	6.43E-01	-0.472178736	9
-0.415307818	4	1.65E+00	-0.037557378	4
1	6	6.06E-04	-0.368985963	6
-0.032659655	7	2.97E-01	0.363876872	7
0.111487655	6	1.43E-01	0.272309289	6
-1	6	9.39E+01	-0.859675545	6
-0.651598856	3	3.04E+00	-0.488842772	3
-0.294537426	24	1.16E+01	0.141071765	24
-2	17	1.22E+10	-2	17
-0.13940811	2	5.12E-01	-0.118156236	2
-1	9	3.52E+02	-1	9
-0.581445964	4	3.26E+00	-0.503406655	4
-0.799091145	7	3.09E+01	-0.95596599	7
0.713576708	28	3.97E-08	-0.785086044	28
0.061212851	7	1.68E-01	0.27612165	7
-0.542411466	8	8.68E+00	-0.555052242	8
0.359766242	16	1.75E-03	0.382043215	16
-1	10	1.68E+03	0.364726256	10
-1	10	9.95E+03	0.294860001	10
-0.849071598	6	2.58E+01	-0.080933606	6
-1	7	8.73E+02	-2	7
0.424362929	2	1.07E-01	-0.824032823	2
2	5	3.30E-05	-0.823691799	5
0.620412074	7	5.68E-03	-2	7
3	5	1.41E-07	-0.545544126	5
1	4	1.98E-03	-0.547459244	4
-0.649820891	5	6.15E+00	-0.705755803	5
-1	12	2.17E+04	-2	12
-0.283524386	6	1.21E+00	-0.220759704	6
-0.024715587	6	2.99E-01	-0.264442789	6
-0.194583841	8	8.40E-01	0.238435149	8
-0.297753276	15	4.01E+00	-0.790794363	15
0.045196328	5	2.27E-01	1	5
-1	7	6.68E+02	-0.473511094	7
-1	4	1.26E+02	0.5048969	4
-1	13	1.75E+04	-0.386127339	13
0.337815685	5	5.65E-02	0.454523314	5
-0.457096737	10	7.74E+00	0.465509044	10
1	6	2.12E-04	0.095061799	6
0.91383865	6	1.88E-03	0.188422051	6
-0.079411353	13	3.53E-01	-0.736868958	13

0.570423638	18	5.78E-05	0.469819414	18
-0.6421927	3	2.95E+00	-1	3
-0.489794941	6	3.70E+00	-0.679561879	6
-0.54332902	6	4.94E+00	-0.273221846	6
-0.716340243	16	6.78E+02	-0.990254738	16
0.395606573	8	1.60E-02	-0.024078386	8
0.809627771	13	4.89E-05	0.129011223	13
0.295546437	20	1.31E-03	0.534611672	20
0.784681736	4	1.22E-02	-0.482546268	4
-1	6	3.51E+02	-0.678035395	6
-0.276190818	21	6.09E+00	-0.189744093	21
0.453170217	5	3.27E-02	-0.679003473	5
0.475322863	15	6.43E-04	-1	15
1	6	8.54E-04	0.140888903	6
-0.737916061	12	1.68E+02	-0.137547208	12
-0.38159718	1	8.40E-01	-0.40315817	1
0.003891038	6	2.57E-01	-0.541613379	6
-0.908245552	20	5.48E+04	-1	20
-0.306960911	7	1.57E+00	-1	7
-0.042075415	6	3.29E-01	-0.623580772	6
-1	9	9.31E+03	-1	9
0.058547394	8	1.53E-01	-0.574865056	8
-0.968592908	9	2.67E+02	-0.793826407	9
-0.25803056	8	1.29E+00	-0.538386952	8
-0.566073345	10	1.86E+01	-0.59726395	10
-0.427055478	1	9.26E-01	-0.687249997	1
-0.434520581	12	9.90E+00	-0.248735741	12
0.14988447	7	9.84E-02	-0.635301476	7
-0.015065475	4	3.21E-01	-0.479059961	4
-2	5	2.07E+03	-1	5
-3	8	5.78E+06	-2	8
-0.937464291	21	1.45E+05	-0.871683462	21
-0.486629076	9	7.65E+00	-0.313252959	9
-0.172889655	3	5.87E-01	-0.22890664	3
-0.119736068	6	5.00E-01	-0.243361056	6
0.346965141	7	2.98E-02	-0.481295553	7
-0.897974851	6	3.36E+01	-0.733351669	6
-0.858871076	7	4.44E+01	-0.466306403	7
-1	1	3.74E+00	-0.193189757	1
-0.403048407	15	1.32E+01	-0.43032944	15
-0.373826435	11	4.72E+00	-0.767450962	11
-0.580853637	6	6.05E+00	-1	6
-0.284000188	6	1.22E+00	-0.804756265	6
-0.938770618	4	1.41E+01	-0.549862931	4
-0.179092828	9	7.93E-01	-0.056748411	9
0.085113091	4	2.13E-01	-0.663779472	4
0.252297457	9	3.30E-02	-0.230810545	9

3	34	4.21E-29	0.456644587	34
-0.445720604	6	2.91E+00	-0.252300631	6
0.666422018	7	4.30E-03	0.977430069	7
0.024465428	8	1.93E-01	2	8
-0.496028223	42	3.62E+04	-0.307475333	42
0	2	3.48E-01	0	2
0	3	3.24E-01	-0.131331291	3
-0.313467604	3	9.52E-01	-0.071253338	3
0.074740873	37	4.27E-03	0.322343143	37
2	11	1.55E-07	-0.858212145	11
1	13	3.38E-06	-0.319832191	13
-1	6	2.53E+02	-2	6
-1	7	1.05E+02	-2	7
-0.251523308	14	2.16E+00	0.079856149	14
0.334443624	15	3.16E-03	-0.667850693	15
-0.392906244	17	1.71E+01	-0.331399934	17
0.500661798	14	7.19E-04	-0.081412682	14
0.777505451	4	1.25E-02	0.564360724	4
-0.34448017	4	1.24E+00	-0.040471945	4
-0.533590854	3	2.03E+00	0.055336612	3
-1	23	1.60E+07	0.206802963	23
-3	8	4.62E+06	-2	8
-0.385932732	3	1.22E+00	-1	3
-0.14404399	2	5.19E-01	-0.039304871	2
-0.321342616	29	3.71E+01	1	29
1	5	3.95E-04	0.966657978	5
-1	10	5.81E+03	-1	10
-2	7	4.77E+03	-2	7
-2	4	6.78E+02	-3	4
-1	21	6.20E+06	-0.610009268	21
-1	11	2.30E+03	-2	11
0.130880986	5	1.51E-01	-1	5
-0.129113743	8	5.41E-01	-0.59574888	8
-1	21	2.80E+06	-0.443700649	21
0.007757	3	3.15E-01	-0.235692163	3
-0.408699181	7	2.90E+00	0.022166079	7
-2	1	2.22E+01	-0.591205945	1
-0.987618954	3	9.66E+00	-2	3
-0.574342804	15	9.14E+01	-0.814678563	15
-0.417926585	4	1.67E+00	-0.634918269	4
-1	43	1.44E+16	-0.802544498	43
0.445780098	16	6.25E-04	0.029454563	16
0.514469115	4	3.67E-02	0.945463643	4
0.97163974	11	3.99E-05	0.65216788	11
-0.903159565	15	3.76E+03	0.220718871	15
-2	9	4.21E+05	-1	9
-2	7	8.82E+04	-1	7

-3	3	4.85E+03	-2	3
-0.707106553	52	8.37E+08	-0.743927542	52
-0.140236228	2	5.14E-01	-0.004264981	2
-0.216880802	4	7.33E-01	-0.523844235	4
-0.437335925	13	1.26E+01	-0.660330383	13
-1	2	5.87E+00	-0.49453123	2
-0.767411348	5	1.08E+01	-1	5
0.32697391	10	1.43E-02	-0.857611953	10
-0.761342544	18	2.73E+03	-1	18
-0.693837591	17	7.61E+02	0.004658162	17
-0.050439663	4	3.71E-01	-0.042800211	4
-0.419530661	36	1.16E+03	0.928278091	36
0.074742308	10	1.08E-01	-0.333326765	10
-1	8	3.78E+02	0.1907796	8
-0.629533594	43	2.45E+06	-0.375170824	43
-0.982843242	11	9.34E+02	-1	11
-0.158741978	3	5.59E-01	-0.006792958	3
-0.457197751	7	3.90E+00	-0.634806189	7
-0.796163248	3	5.00E+00	-0.844129381	3
-0.328115851	8	2.06E+00	-0.190668336	8
-1	6	4.02E+02	-0.585338644	6
-0.344206109	12	4.26E+00	-0.617438595	12
-0.604127613	3	2.59E+00	-0.52455453	3
-2	14	3.88E+06	-2	14
-0.289342818	7	1.41E+00	-0.116996655	7
-0.43352317	29	3.69E+02	-0.513064889	29
-0.054190416	1	4.19E-01	-0.034048683	1
0.249508414	10	2.66E-02	0.496162003	10
-0.191981259	2	5.93E-01	0.32857203	2
-0.096627195	11	4.25E-01	0.323588579	11
0.533689974	8	6.31E-03	0.184812105	8
0.421331911	23	7.38E-05	-0.519908913	23
-0.61720184	10	2.80E+01	-0.209561291	10
0.179589844	68	8.34E-07	-0.094254098	68
-0.455864858	4	1.95E+00	-0.408637742	4
-0.325918623	4	1.15E+00	-0.68503374	4
-2	9	7.13E+04	-1	9
-0.94216242	55	1.84E+13	0.407752757	55
1	12	9.30E-06	0.236984218	12
1	6	2.97E-04	0.219371849	6
2	5	3.49E-05	0.895553276	5
0.675957588	16	3.98E-05	-0.71350728	16
-1	6	1.35E+02	-0.474566989	6
-0.731806699	20	4.19E+03	-1	20
-0.263504153	4	8.87E-01	-2	4
-0.311189192	2	8.27E-01	-0.264612186	2
-0.717470654	5	8.49E+00	-0.820364132	5

-1	9	4.35E+02	-0.041032224	9
-0.472642827	23	1.96E+02	-0.642623955	23
-0.07192972	17	2.98E-01	0.01154504	17
0.456168695	3	6.75E-02	-0.103479602	3
-0.070604469	25	2.41E-01	-0.244807926	25
-0.28122573	2	7.60E-01	-0.154492793	2
-0.042168935	3	3.74E-01	-0.080043788	3
0.067026824	22	2.91E-02	-0.527420825	22
-0.702081921	12	1.20E+02	-0.638291151	12
-0.928466707	7	6.78E+01	-0.609402622	7
0.267869012	7	4.81E-02	-0.166549476	7
0.523070942	5	2.35E-02	-0.005442411	5
0.546507361	7	8.90E-03	0.020661457	7
0.624736668	1	9.88E-02	-0.695306345	1
0.031880844	10	1.53E-01	-0.801170693	10
-0.390784641	5	1.80E+00	-1	5
-0.050734407	14	2.55E-01	-0.661485041	14
-0.452277386	4	1.92E+00	-0.349909394	4
-0.250156816	10	1.47E+00	0.196731443	10
-0.502765389	12	1.87E+01	0.728013289	12
-0.661398134	11	5.73E+01	0.008074167	11
0.805200483	6	3.38E-03	-0.426535456	6
0.467372135	7	1.44E-02	-0.847220618	7
0.059711012	8	1.52E-01	0.069042767	8
-1	4	7.25E+01	-0.773770625	4
-1	16	8.75E+05	-0.035209035	16
-0.52797862	14	4.11E+01	1	14
-0.285941011	2	7.70E-01	2	2
-1	5	1.29E+02	0.816114076	5
-1	2	1.75E+01	-1	2
-0.420446963	5	2.07E+00	-1	5
0.307984837	8	2.87E-02	-1	8
-1	2	7.91E+00	-2	2
-2	2	9.97E+01	-1	2
-0.947196682	7	7.59E+01	-0.215673392	7
0.706383121	2	4.87E-02	-0.713227396	2
-0.844133472	6	2.51E+01	-0.984276405	6
-0.396980755	6	2.24E+00	-0.383582278	6
-0.209909443	3	6.67E-01	-0.190121887	3
-0.856557462	6	2.68E+01	-0.567598493	6
-0.533893215	9	1.08E+01	-0.43518793	9
-0.955275209	8	1.39E+02	-0.824924664	8
-0.447767075	4	1.89E+00	-0.378846319	4
-1	2	7.39E+00	0.642148942	2
0.262854064	11	1.88E-02	2	11
-1	7	2.13E+02	-0.718101309	7
-1	5	5.61E+01	-0.955744953	5

-0.439769493	14	1.61E+01	-0.482791941	14
-0.048027363	4	3.67E-01	0.03978196	4
-0.296613662	5	1.15E+00	-1	5
-0.320730361	19	9.08E+00	1	19
-0.128458908	19	6.24E-01	0.820640753	19
0.0227197	4	2.75E-01	0.374837769	4
0.087538174	17	3.99E-02	0.952858052	17
0.466693231	51	9.15E-10	1	51
1	21	1.12E-10	0.623147205	21
-0.682203432	3	3.38E+00	-0.902120201	3
-0.008765854	3	3.34E-01	-0.215475905	3
0.615656725	8	3.64E-03	1	8
-0.680865024	21	2.90E+03	1	21
-0.191808694	9	8.71E-01	-0.707567498	9
-0.394038803	8	3.21E+00	-0.62616248	8
-0.232612348	8	1.08E+00	-0.074015899	8
-0.19243409	18	1.44E+00	-0.317977097	18
-0.026983502	7	2.87E-01	0.002527261	7
-0.276182961	14	2.81E+00	-0.227037737	14
1	3	4.99E-03	-0.842363182	3
1	8	1.71E-04	-0.480455414	8
-0.60453827	6	6.87E+00	-0.169373307	6
-0.139244928	6	5.56E-01	-0.359439725	6
-0.568052677	5	4.17E+00	-2	5
-0.382516697	5	1.73E+00	-1	5
0.141324613	6	1.22E-01	0.576183312	6
0.243886745	6	7.01E-02	-0.418512112	6
-0.009756237	16	1.45E-01	-0.559846423	16
-2	7	3.00E+03	-0.56197499	7
-1	17	1.87E+07	-0.466666126	17
0.386246139	15	1.76E-03	-0.288799739	15
0.234729065	18	4.97E-03	-0.505614503	18
-0.572055318	18	2.22E+02	-0.645317587	18
-0.83824279	18	7.59E+03	-0.564512783	18
0.378045584	2	1.21E-01	-0.179501039	2
0.198978196	14	1.79E-02	-0.216442801	14
0.521007837	11	2.00E-03	-0.213270777	11
-0.580455936	6	6.03E+00	0.393001152	6
0.860975635	26	7.60E-09	0.783023478	26
1	5	4.72E-04	1	5
-0.357337777	4	1.30E+00	0.32555312	4
-2	12	4.24E+07	-1	12
-0.948795302	41	1.05E+10	-0.343498909	41
-0.187676572	6	7.22E-01	-0.044905546	6
0.199953993	20	5.27E-03	1	20
-0.393581434	40	1.28E+03	-0.180854631	40
0.164152207	4	1.54E-01	-0.243810492	4

-0.176526858	5	6.50E-01	-0.543764907	5
-2	3	2.40E+02	-0.484117639	3
-0.164609209	15	8.90E-01	-0.112788417	15
-0.473500529	6	3.39E+00	-0.98779753	6
-0.345037145	7	1.97E+00	-0.064631097	7
-0.214578212	28	3.88E+00	-0.514212808	28
0.069801837	1	3.22E-01	-0.009810468	1
-1	8	8.92E+02	-1	8
-0.12056375	6	5.03E-01	1	6
-0.216148412	88	2.82E+02	1	88
-0.488798975	22	1.99E+02	-0.321744329	22
0.272541174	11	1.73E-02	-1	11
-0.026762391	3	3.55E-01	-0.208820438	3
-0.508790124	15	4.36E+01	-0.243655542	15
-0.006083004	9	2.22E-01	-0.539540161	9
-0.849071196	12	4.75E+02	-0.287860067	12
-0.631803471	11	4.43E+01	0.538291125	11
-0.981716908	7	9.36E+01	-0.183908902	7
-1	6	1.49E+02	-0.925947823	6
0.091649317	28	8.97E-03	0.065512055	28
0.25947883	5	8.20E-02	0.210790871	5
0.346653103	13	5.00E-03	0.149048495	13
0.398430883	38	7.41E-07	1	38
-0.04474833	5	3.48E-01	2	5
0.656443463	10	1.02E-03	0.375712559	10
-0.316312483	39	1.31E+02	0.042787645	39
-0.274700012	4	9.29E-01	0.087050037	4
-0.336552347	11	3.42E+00	0.157916837	11
-0.54007787	20	2.56E+02	-0.162426203	20
0.727994081	13	1.11E-04	0.605451534	13
-0.422886689	10	5.88E+00	0.272167058	10
-1	5	5.88E+01	-0.147131351	5
-0.709023901	10	5.84E+01	-0.141557839	10
-0.597842165	3	2.53E+00	0.550161447	3
-1	14	4.18E+04	0.484179261	14
0.092146948	1	3.07E-01	-0.069839536	1
-0.864500702	10	2.04E+02	-0.382945184	10
-0.966610478	4	1.58E+01	-0.633987379	4
-0.671283277	10	4.32E+01	-0.753938018	10
-1	6	3.23E+02	-0.642584204	6
-0.446225081	7	3.65E+00	-0.599484865	7
-1	2	1.31E+01	-0.917072362	2
-1	6	4.89E+02	-2	6
-0.792711001	5	1.21E+01	-2	5
0.555860678	14	4.00E-04	-1	14
0	1	3.73E-01	-0.006445639	1
-0.039316663	5	3.39E-01	-0.930648825	5

2	32	2.11E-19	-0.719364512	32
-0.502034184	18	8.76E+01	-0.752545503	18
-0.146031381	2	5.22E-01	-0.197063987	2
-0.221906949	6	8.69E-01	0.355668481	6
-0.850511547	7	4.22E+01	-1	7
0.282438665	5	7.35E-02	-0.139562908	5
-0.581692095	9	1.54E+01	-2	9
-0.162447773	15	8.69E-01	-0.878191599	15
-0.782572049	97	5.36E+18	1	97
-1	10	9.29E+02	0.198398783	10
-1	6	8.63E+01	-0.197137862	6
0.186099482	40	1.36E-04	0.10601437	40
-0.325382862	7	1.75E+00	-0.252029374	7
-0.225059741	9	1.11E+00	0.475033011	9
-0.911942161	11	5.05E+02	-0.362212141	11
-0.981012718	10	5.19E+02	1	10
-0.693393302	6	1.11E+01	-0.317904312	6
0.060531974	8	1.51E-01	-0.007936115	8
-0.067593179	2	4.20E-01	-0.23737279	2
-1	51	3.58E+13	-0.593229898	51
-0.827194751	13	6.21E+02	-1	13
-0.240110925	67	1.89E+02	1	67
-0.847165517	4	9.68E+00	-0.013569121	4
0.651272386	6	7.76E-03	0.686402681	6
0.625714887	2	6.10E-02	0.242595123	2
-0.314623361	10	2.47E+00	0.070806704	10
0.137409197	3	2.02E-01	0.795586046	3
0.13976085	10	6.43E-02	0.315228455	10
-0.82605257	9	9.34E+01	0.007043412	9
-0.792421396	5	1.21E+01	-0.104312169	5
0.105618561	6	1.48E-01	-0.177643279	6
-0.155282875	11	7.08E-01	-0.701476033	11
-0.239172716	28	6.32E+00	-0.179122253	28
-0.846478068	8	6.69E+01	-0.762958079	8
1	5	1.26E-03	0.941038042	5
-0.735152984	5	9.23E+00	1	5
-2	5	3.56E+02	0.928665556	5
-0.754177859	5	1.01E+01	0.649113781	5
-1	1	4.07E+00	0.827564649	1
-0.364263015	8	2.62E+00	0.336902755	8
-0.591734764	34	4.60E+04	-2	34
-1	7	1.33E+02	-0.098317935	7
-0.017617018	17	1.50E-01	1	17
2	8	4.86E-06	0.566485622	8
0.32276812	15	3.61E-03	-0.001621539	15
-0.256690322	12	1.88E+00	-0.317933366	12
-1	2	2.16E+01	-0.25106814	2

0.084204733	3	2.43E-01	0.077733985	3
-0.077160796	6	3.97E-01	0.753237186	6
-0.060027455	2	4.11E-01	-0.001301283	2
-1	7	2.18E+02	-1	7
-0.708170024	102	3.03E+17	0.231456878	102
-0.013721888	9	2.34E-01	-0.131947496	9
-0.622682825	49	1.51E+07	-0.763130914	49
-0.85965681	7	4.47E+01	0.073603399	7
-0.115454775	8	4.94E-01	-0.589244571	8
-0.097376521	4	4.50E-01	0.6233642	4
0.245225663	8	4.38E-02	0.752658926	8
0.04660881	15	8.18E-02	-0.352201972	15
-0.776902552	39	3.35E+07	-0.610435825	39
-0.146351975	6	5.78E-01	-0.16464138	6
-0.934060316	8	1.20E+02	-2	8
-0.906247233	14	2.31E+03	-0.822515259	14
-0.041418529	8	3.00E-01	-2	8
-0.164355042	9	7.11E-01	-0.508159597	9
-0.734856856	11	1.08E+02	-0.464655912	11
-0.670626914	8	2.05E+01	0.466289547	8
0.716400198	14	7.23E-05	-0.180780875	14
-0.020282667	21	1.23E-01	-0.053152746	21
-0.494190614	13	2.23E+01	-0.157812056	13
-2	2	1.05E+02	-1	2
-0.674678449	5	6.93E+00	-0.320636807	5
-0.427055478	2	1.14E+00	-0.770747846	2
-0.128012799	27	6.89E-01	2	27
-0.823023836	6	2.24E+01	-0.190306972	6
-0.370844948	5	1.64E+00	-0.103490392	5
-0.208238232	10	1.05E+00	-0.077383103	10
-0.451803796	11	9.29E+00	0.513142549	11
-0.081469531	9	3.86E-01	0.213404555	9
-0.116787922	9	5.01E-01	0.044015852	9
0.368758953	6	3.57E-02	0.252727645	6
-0.426085998	30	3.90E+02	0.436609951	30
-0.678962886	8	2.17E+01	-0.396646751	8
0.066701229	1	3.24E-01	0	1
0.422856848	3	7.57E-02	-0.069201551	3
-0.801601359	21	1.82E+04	-0.779962422	21
-0.651016554	6	8.84E+00	-0.061164214	6
-0.119426892	8	5.07E-01	-0.326492042	8
-0.112053172	14	4.90E-01	-0.24081455	14
1	15	9.44E-07	-0.805364662	15
-0.382204429	4	1.44E+00	-0.190577024	4
2	9	8.84E-09	-0.844029121	9
3	18	6.82E-17	-0.970824829	18
-0.729206385	6	1.35E+01	-0.477231524	6

-0.530199934	3	2.01E+00	0.468542749	3
-0.203713039	5	7.40E-01	0.191640686	5
-0.267280964	12	2.08E+00	-0.231525016	12
-0.094232564	6	4.36E-01	-0.129452108	6
2	8	3.23E-07	0.903850892	8
0.564476613	18	6.25E-05	1	18
0.435869918	14	1.43E-03	-0.011599788	14
0.092519948	13	6.33E-02	-0.276631356	13
0.173492591	26	2.56E-03	0.425602733	26
0.093808733	12	7.13E-02	0.795936525	12
0.405754036	7	2.09E-02	0.6798209	7
-0.35624937	7	2.11E+00	0.026995797	7
0.283920061	13	9.35E-03	-0.121636695	13
0.608611279	9	2.39E-03	0.012107394	9
-0.226712886	1	6.04E-01	-0.40315817	1
-0.290522696	11	2.29E+00	-0.971575858	11
-0.902768977	6	3.44E+01	0.402904067	6
-0.940817825	6	4.23E+01	0.712070511	6
0.827065641	6	3.00E-03	0.883348189	6
1	16	7.20E-07	0.460432568	16
0.029273565	9	1.71E-01	0.216343255	9
-0.445264823	4	1.87E+00	-0.489239921	4
-0.24307078	6	9.74E-01	0.019263451	6
0.150708975	4	1.63E-01	0.139867674	4
-0.053721048	1	4.18E-01	-0.023657493	1
-0.720379797	8	2.87E+01	-1	8
-0.567381223	8	1.03E+01	-0.784713688	8
-0.290794889	4	9.92E-01	-0.391886575	4
-0.383022191	41	1.14E+03	0.797297051	41
0.825981803	14	2.25E-05	0.947108572	14
0.077912495	64	1.47E-04	0.442984324	64
-2	4	1.37E+03	0.965825239	4
-0.277371418	10	1.83E+00	0.045986609	10
1	11	6.15E-07	0.490670463	11
1	11	2.24E-05	0.688921925	11
-0.677396105	14	2.02E+02	0.001942654	14
0.179472177	11	3.87E-02	-0.167067256	11
-2	15	1.04E+08	-0.304552221	15
-0.881276348	11	3.87E+02	-0.537130364	11
-0.415604583	1	9.03E-01	-0.764661507	1
-1	14	1.13E+05	-0.962940679	14
-1	11	1.44E+03	-0.965902013	11
-0.737331136	3	4.09E+00	-1	3
1	11	8.18E-06	-1	11
2	5	3.81E-05	-0.932872587	5
-0.037019984	4	3.51E-01	-1	4
-0.469946049	15	2.81E+01	-2	15

-0.763584262	31	7.51E+05	-0.435193095	31
-0.553812705	16	9.71E+01	-0.504743946	16
-2	18	7.56E+08	-1	18
-1	26	1.71E+07	-0.733015898	26
-1	24	1.79E+08	-0.188696692	24
0.019990193	28	3.71E-02	0.469392112	28
-1	8	2.12E+02	0.032503046	8
-0.236945312	73	2.71E+02	1	73
-0.931848538	5	2.35E+01	-2	5
0.741778662	7	2.72E-03	-0.818562879	7
0.125799615	6	1.33E-01	-0.018815791	6
0.383159462	5	4.56E-02	0.190023654	5
-0.192590281	3	6.28E-01	0.010067507	3
-1	21	6.54E+05	-2	21
-0.438369428	90	2.22E+08	-0.678910409	90
-0.218130347	17	1.88E+00	-0.11853984	17
-0.936138863	7	7.10E+01	-0.450140038	7
-0.681447404	5	7.15E+00	-0.531135454	5
-0.644981867	7	1.22E+01	-0.763024556	7
0.350456894	31	2.15E-05	0.277345553	31
0.605039219	20	1.43E-05	0.375335654	20
-0.619950128	42	1.32E+06	0.499889222	42
-0.850802076	17	5.51E+03	1	17
-0.246631781	32	1.05E+01	-0.632945902	32
-0.318910728	18	7.71E+00	-1	18
-0.960748511	8	1.44E+02	0.019199152	8
-0.286555896	4	9.75E-01	0.044545307	4
-0.72117361	11	9.63E+01	1	11
-0.363383798	11	4.31E+00	0.571753127	11
0.334173875	11	1.01E-02	-0.068898648	11
-0.18866933	7	7.66E-01	-0.011827656	7
0.491646849	8	8.37E-03	-0.175144331	8
-0.157749906	20	9.70E-01	2	20
-0.144995574	2	5.21E-01	3	2
-0.336495644	16	7.22E+00	-0.01869294	16
0	16	1.29E-01	0	16
0	7	2.44E-01	-0.029263188	7
0	6	2.62E-01	-0.295799062	6
-0.188012843	9	8.47E-01	0.076735756	9
0.938731709	1	5.07E-02	0.183298947	1
1	17	7.88E-09	0.775007238	17
-1	21	2.42E+06	-1	21
-0.032757885	1	4.00E-01	-0.263760599	1
-2	20	7.48E+09	0.059350183	20
0.083555617	11	8.90E-02	0.000313207	11
-1	7	1.57E+02	-0.490781896	7
-0.673189137	10	4.38E+01	-0.451702676	10

-0.620502501	6	7.49E+00	-0.987308691	6
-2	7	2.42E+05	-1	7
-2	7	2.81E+04	-0.314599696	7
-2	17	1.28E+08	-1	17
-0.099338971	3	4.56E-01	-0.041599828	3
-0.814290763	21	2.21E+04	-0.496257503	21
-1	17	7.39E+04	-2	17
-0.739295144	3	4.11E+00	-0.554055806	3
-1	7	2.61E+02	-0.54430852	7
-1	12	3.61E+04	-0.777503863	12
-1	31	4.12E+09	-0.587361276	31
0.098854362	8	1.17E-01	-0.157145803	8
-0.562390695	9	1.34E+01	-0.140853713	9
-0.38244093	43	1.61E+03	0.180602346	43
-0.318630922	7	1.68E+00	0.808347315	7
0.260605157	38	2.81E-05	0.425399202	38
-1	6	5.83E+01	-0.584996008	6
-0.257134578	5	9.53E-01	-0.292614475	5
-0.821704814	6	2.22E+01	-0.44953565	6
0.004734116	6	2.55E-01	0.197382502	6
-0.145307548	10	6.34E-01	0.037688192	10
-0.091076992	25	3.47E-01	0.287282122	25
0.389666013	3	8.48E-02	1	3
-0.226527759	4	7.63E-01	-0.279787994	4
-0.415137384	44	5.19E+03	-0.168091518	44
-0.060027878	3	3.98E-01	-0.141700113	3
0.591946454	24	2.77E-06	0.901386465	24
2	9	8.86E-07	2	9
0.149746379	8	8.32E-02	0.301915376	8
-0.137071749	4	5.29E-01	0.315231801	4
0.103691392	2	2.61E-01	0.086555082	2
-0.52306517	11	1.72E+01	-0.06044254	11
-0.797349068	5	1.24E+01	0.221331898	5
0.496121613	8	8.13E-03	1	8
1	10	2.66E-06	2	10
0.038731033	15	8.94E-02	0.111614998	15
-0.056851852	6	3.56E-01	0	6
-0.113578783	9	4.89E-01	-0.035800328	9
-0.820732397	6	2.21E+01	-0.489407215	6
-0.50456081	55	1.36E+06	-1	55
-0.072439984	24	2.55E-01	-0.00874334	24
0.011983742	3	3.11E-01	-0.049164012	3
1	9	7.87E-05	0.031015115	9
0.002646436	5	2.78E-01	0.000305311	5
0.113917941	13	5.11E-02	0.08000562	13
0.120973774	11	6.43E-02	-0.043427159	11
-0.162319491	43	2.35E+00	-0.292900918	43

0.670002405	4	1.94E-02	-0.391128254	4
-0.197978619	4	6.79E-01	-0.066813055	4
0	5	2.81E-01	0.086204435	5
-0.061637393	27	1.93E-01	0.265409838	27
-0.216508258	11	1.20E+00	0.042960677	11
-0.001302087	5	2.83E-01	-0.000271668	5
-0.182654348	9	8.14E-01	-0.339740084	9
-0.585159837	6	6.19E+00	-0.239443142	6
-0.236210774	29	6.49E+00	-0.193410105	29
-0.399999681	6	2.28E+00	-0.73055486	6
-0.226229283	42	1.45E+01	-0.253218589	42
-0.654503973	16	3.24E+02	-0.757667564	16
-0.491946526	5	2.91E+00	-0.150881417	5
-0.99554514	12	1.87E+03	-1	12
-0.491354893	14	2.78E+01	-0.731459635	14
-0.247978186	18	3.01E+00	-0.519844301	18
-0.167511444	18	1.03E+00	-0.202830735	18
-0.24798356	6	1.00E+00	-0.001414865	6
0.003946487	20	9.18E-02	0.006048064	20
0.205877193	6	8.61E-02	-0.057424111	6
-0.262704503	24	6.72E+00	-0.170687122	24
0.136397616	6	1.25E-01	-0.081174083	6
0.001080995	2	3.47E-01	0.001242155	2
0.00601315	59	4.83E-03	0.278070115	59
-0.612784885	17	2.74E+02	0.18579961	17
-0.064662933	10	3.32E-01	0	10
-0.449297625	8	4.65E+00	0.094173223	8
-0.005154357	7	2.52E-01	-0.004231033	7
-0.039743923	1	4.06E-01	-0.036693455	1
-0.015627073	14	1.76E-01	0.087924554	14
-0.371842665	49	3.31E+03	-0.209950288	49
-1	23	2.31E+08	-0.251378686	23
0	8	2.27E-01	0	8
-0.089498002	6	4.25E-01	0.056281554	6
-0.020560676	1	3.90E-01	0.013878488	1
-0.360267989	10	3.56E+00	0.019661205	10
0.025553566	24	4.72E-02	-0.042086389	24
-0.977249172	6	5.15E+01	-0.593510613	6
-0.468094807	4	2.05E+00	-0.632815308	4
-0.584039761	11	2.93E+01	-0.425786967	11
0	3	3.24E-01	-0.006035436	3
0	3	3.24E-01	0	3
0	1	3.73E-01	0	1
0	3	3.24E-01	0.036193326	3
0	1	3.73E-01	0	1
-0.11816086	4	4.90E-01	-0.053880681	4
-0.159553982	2	5.42E-01	0.003700398	2

-0.475485348	25	3.32E+02	0.494174332	25
-0.340153726	4	1.21E+00	-0.512054761	4
-0.336178908	15	6.19E+00	0.064295561	15
0.250106761	22	1.59E-03	1	22
-0.274150375	9	1.60E+00	0.488097279	9
-0.654002829	5	6.28E+00	-0.416069922	5
-0.41176403	10	5.38E+00	-0.876262309	10
-0.260193534	4	8.76E-01	-0.465875336	4
-0.074953486	4	4.10E-01	-0.015268826	4
-0.050424073	2	4.00E-01	0	2
-0.061611972	6	3.65E-01	-0.099929257	6
0	3	3.24E-01	0	3
-0.200983478	3	6.46E-01	-0.096998754	3
-0.222451014	5	8.09E-01	0	5
-0.14081026	7	5.73E-01	-0.01163731	7
-0.929539423	5	2.32E+01	-1	5
-0.129146991	6	5.26E-01	-0.549243789	6
-0.098028176	3	4.54E-01	-0.200482083	3
-0.090823628	3	4.43E-01	-0.154892063	3
2	12	7.66E-08	-0.652576918	12
-0.189331355	6	7.29E-01	-0.230902372	6
-0.001218928	6	2.64E-01	-0.429895466	6
-0.098028283	10	4.33E-01	-0.139184475	10
-0.583204991	3	2.41E+00	-0.174817891	3
-0.873522704	6	2.94E+01	-0.72317259	6
-0.812649104	10	1.34E+02	-1	10
-0.127767975	3	5.03E-01	-0.23697597	3
-0.238393841	5	8.72E-01	-0.278928532	5
-0.003248015	3	3.28E-01	-0.002073468	3
-0.091879809	8	4.21E-01	-1	8
-0.418550057	9	4.63E+00	-0.890246886	9
-0.331101589	6	1.57E+00	0.024966462	6
-0.596904294	3	2.52E+00	-0.121571439	3
-0.140501399	4	5.36E-01	-0.043008255	4
-0.827750328	6	2.30E+01	-0.748432796	6
-0.966642945	8	1.50E+02	-1	8
-0.094369999	6	4.36E-01	-0.436480057	6
-0.960593491	10	4.40E+02	-0.673661068	10
-0.011365374	2	3.59E-01	0.153647421	2
-0.796448775	7	3.04E+01	-0.743566533	7
-2	10	2.34E+05	-1	10
-0.260114567	7	1.18E+00	-0.644758872	7
-0.059003769	2	4.10E-01	-0.224736414	2
-0.653877152	7	1.28E+01	-0.154995255	7
0.767977968	6	4.13E-03	-0.103935796	6
-0.218794419	3	6.87E-01	0.206207624	3
0.485635735	5	2.80E-02	1	5

0.204372506	14	1.69E-02	-0.001757118	14
1	5	8.90E-04	-0.37807148	5
-2	8	1.69E+04	-0.942225778	8
-2	6	9.10E+02	0.231812747	6
-0.126154933	4	5.06E-01	0.027485496	4
0.054829435	2	2.98E-01	0.13015142	2
-0.012963466	3	3.39E-01	-0.384526501	3
-0.993444017	17	3.33E+04	-0.602016618	17
-0.180937715	5	6.64E-01	-0.474307523	5
-1	6	1.63E+02	-0.850708615	6
-0.067562379	3	4.09E-01	0.122733786	3
1	22	6.62E-10	-0.48451815	22
-0.756440096	10	8.55E+01	-0.728962229	10
1	4	2.93E-03	-0.19080777	4
-2	5	6.39E+02	-0.733321308	5
-0.248329314	6	1.00E+00	-0.705929522	6
-0.024097433	4	3.33E-01	-0.453639913	4
-0.117750515	6	4.95E-01	-0.010490899	6
-0.195105883	8	8.43E-01	-0.009661135	8
-0.8048961	3	5.16E+00	-0.67995782	3
-0.158925693	4	5.78E-01	-0.277312157	4
0.578513234	5	1.80E-02	-0.249126735	5
0.446043063	8	1.14E-02	-0.136048201	8
0.707013091	15	4.69E-05	-0.918395682	15
-0.01040877	20	1.13E-01	-0.002252947	20
-1	7	1.63E+02	-1	7
-2	8	4.25E+05	-2	8
-1	5	1.11E+02	-0.884045917	5
-0.389308802	3	1.24E+00	-0.046142109	3
-0.881229041	1	2.43E+00	-1	1
-0.52532411	1	1.14E+00	-0.653660647	1
-0.928066354	4	1.35E+01	-1	4
-0.468186772	4	2.05E+00	-0.420352454	4
-0.057315575	1	4.22E-01	-0.004410361	1
-2	14	1.31E+09	-2	14
-0.777735531	3	4.70E+00	-0.5270962	3
-0.640889712	3	2.93E+00	-0.233116113	3
-0.377331191	7	2.40E+00	-0.204009102	7
0.394066498	14	2.24E-03	-0.592097688	14
-0.380524219	7	2.45E+00	-0.06800692	7
-0.008734949	3	3.34E-01	-0.047822028	3
-0.830126124	28	7.74E+05	0.448250447	28
-0.393165764	29	1.61E+02	2	29
0.011597716	10	1.80E-01	0.167202401	10
0	2	3.48E-01	0	2
0	2	3.48E-01	0	2
0	7	2.44E-01	-0.037315416	7

-0.002078094	70	3.11E-03	0.449214587	70
-0.055242845	71	3.73E-02	0.426515138	71
0.717806874	10	6.21E-04	0.342282676	10
-0.389305557	5	1.79E+00	-0.926052164	5
-0.994166084	6	5.64E+01	-0.674498079	6
-0.405785521	6	2.35E+00	-0.089669894	6
-0.303679539	32	3.79E+01	-0.415429943	32
0.518161637	8	7.01E-03	-0.247299961	8
-0.04787963	10	2.90E-01	-0.034145879	10
-1	6	1.81E+02	-0.615135115	6
-0.518259433	20	1.86E+02	-0.205798899	20
-0.202279356	6	7.82E-01	-0.087779072	6
-0.001435152	7	2.46E-01	-0.434050445	7
0.072656017	20	3.37E-02	0.027307639	20
0.220675654	14	1.42E-02	0.06472974	14
0.241912468	19	3.59E-03	-0.126154683	19
0.4525975	1	1.43E-01	0.359508839	1
0.979629455	7	6.45E-04	-0.004500885	7
0.759081669	28	1.61E-08	-0.788527873	28
-0.84677487	5	1.57E+01	-0.752561919	5
0.392522678	2	1.17E-01	-0.121731868	2
-0.01974385	1	3.89E-01	-0.016443683	1
-0.243268524	3	7.48E-01	-0.206922412	3
-1	10	1.37E+03	-1	10
-0.465857691	15	2.68E+01	1	15
-0.52030973	8	7.48E+00	-0.417897498	8
-0.637887316	13	9.36E+01	-0.899901482	13
-0.394926339	18	2.11E+01	-0.484223612	18
-1	23	5.72E+07	-0.988436789	23
-0.175972499	23	1.45E+00	-0.021656333	23
-1	7	1.12E+02	-0.480379045	7
-0.688672374	12	1.06E+02	-0.676777038	12
0.474874087	5	2.95E-02	-0.213373616	5
1	4	5.03E-03	-0.343059779	4
1	13	1.90E-06	-0.260495449	13
3	11	2.08E-11	-0.486707115	11
0.445200057	10	5.54E-03	-0.068872177	10
2	9	5.15E-07	-0.543346326	9
0.140006589	13	3.94E-02	-1	13
-0.225777817	3	7.04E-01	-0.119453608	3
-0.029444695	2	3.77E-01	0.030498551	2
-0.429420837	17	2.71E+01	0.007742625	17
0.159042528	11	4.62E-02	-0.175404214	11
-0.663912589	24	6.68E+03	-1	24
-2	3	1.90E+02	-0.607792177	3
-1	16	4.02E+05	-0.531841459	16
2	7	4.59E-06	-0.406370943	7

-0.189489242	13	1.06E+00	-2	13
-0.875556765	18	1.24E+04	-0.562461056	18
-0.424485175	16	2.07E+01	-0.067681315	16
-0.232540139	6	9.20E-01	-0.149886038	6
-0.725241742	12	1.50E+02	-0.19489351	12
-0.415666932	33	5.73E+02	-0.280024615	33
-0.069400501	10	3.44E-01	-0.414479774	10
0.529920736	40	1.00E-08	-0.316063977	40
0.01151402	17	1.04E-01	-2	17
-0.022647157	3	3.50E-01	-0.164729793	3
-0.061851283	4	3.89E-01	0.067627331	4
-0.424134352	8	3.92E+00	-0.657705378	8
-0.634305156	9	2.27E+01	-0.263991673	9
-0.06776118	34	1.81E-01	-0.070471059	34
-0.226483845	18	2.26E+00	-0.336915392	18
-0.044505895	2	3.94E-01	-0.04183606	2
-0.261002986	11	1.77E+00	-0.006339077	11
0.582270188	4	2.78E-02	-0.003041726	4
-0.28708766	6	1.24E+00	-0.046178997	6
-0.55744643	33	1.52E+04	0.780842603	33
0.422165887	4	5.36E-02	-0.02733849	4
-0.166696066	5	6.21E-01	-0.129104263	5
-0.064585354	4	3.93E-01	-0.553513946	4
-0.460274606	1	9.93E-01	-0.3780717	1
-0.116660872	4	4.87E-01	-0.209607271	4
-0.076014178	37	2.06E-01	-0.329607621	37
-0.274444266	6	1.15E+00	-0.020317848	6
0.14454855	7	1.02E-01	0.003305576	7
-0.123436189	59	8.72E-01	-0.112838018	59
0.297579805	10	1.81E-02	0.477624222	10
0.146369144	26	4.23E-03	-0.507045238	26
-0.418214236	9	4.62E+00	-0.388679528	9
-0.316375848	2	8.39E-01	-0.267935079	2
-0.584079757	23	1.24E+03	-0.154202923	23
-0.389611638	8	3.11E+00	-0.003606509	8
-0.490432072	9	7.87E+00	-0.223432201	9
-0.046941517	7	3.24E-01	-0.011007412	7
0	6	2.62E-01	0.086898872	6
-0.181992766	13	9.84E-01	-0.344537779	13
-0.575918737	2	1.73E+00	-0.006082776	2
-2	4	4.84E+03	-1	4
-0.305669929	7	1.56E+00	0.002629753	7
-0.228240189	12	1.44E+00	-0.634862313	12
0.348979872	19	8.09E-04	0.743955838	19
-0.031384893	83	6.49E-03	-0.085473507	83
-0.153740927	9	6.58E-01	0.055735234	9
-1	6	9.56E+01	0.215059322	6

-0.584109671	3	2.41E+00	0.424580912	3
-0.458622772	9	6.22E+00	-0.486604813	9
0.606433571	8	3.87E-03	-0.589491101	8
-0.708566157	4	5.49E+00	-0.973929822	4
-0.038591267	2	3.87E-01	0.021484097	2
-0.08677642	58	2.03E-01	-0.225106383	58
-0.067038859	10	3.38E-01	0.469929698	10
0.01118468	8	2.11E-01	0.115974381	8
-0.111841938	20	4.97E-01	-0.002650491	20
-0.000117971	11	1.84E-01	0.053648172	11
-0.030969911	4	3.43E-01	-0.030950044	4
-0.265511165	20	4.67E+00	-0.284785602	20
-0.051251985	7	3.33E-01	0.142637938	7
0.048578577	21	4.32E-02	0.059382255	21
-0.112931758	17	5.00E-01	0.045980477	17
0	2	3.48E-01	0	2
-0.290429961	16	4.16E+00	0.022104737	16
-0.23000528	12	1.47E+00	-0.099737135	12
-0.091986813	28	3.42E-01	0.007272832	28
-0.22961745	9	1.15E+00	0.105657377	9
-0.463663743	8	5.12E+00	0.141836057	8
-0.235912891	19	2.79E+00	-0.028601621	19
-0.062820923	22	2.29E-01	-0.005138581	22
-0.59030517	15	1.09E+02	-0.402289148	15
-0.994728551	6	5.66E+01	-1	6
-0.147875146	27	1.01E+00	-0.804182812	27
-0.273112073	26	9.98E+00	0.013114714	26
0.466433848	5	3.07E-02	-0.176150005	5
1	3	2.69E-03	0.050167382	3
0.490749885	3	5.99E-02	-0.145597794	3
0	3	3.24E-01	0.291692218	3
-0.346820927	8	2.33E+00	-0.340249448	8
2	54	6.90E-37	-0.852183819	54
-0.121932976	22	5.86E-01	-0.460598919	22
-0.025655753	63	1.39E-02	0.039941816	63
-0.008388855	35	4.13E-02	0.037914846	35
0.389353312	7	2.31E-02	0.131950464	7
-0.022995883	11	2.24E-01	0	11
-0.023019517	20	1.36E-01	-0.009447559	20
0	7	2.44E-01	0.016194802	7
-0.021334083	18	1.49E-01	-0.008974714	18
0.207983031	8	5.63E-02	-0.159776438	8
0.259275064	4	1.04E-01	-0.685804998	4
0.094321199	5	1.80E-01	-0.058857323	5
-0.510767009	2	1.44E+00	-0.105023214	2
-0.459508949	10	7.89E+00	-1	10
0.197104449	9	4.95E-02	-0.314955679	9

0.354779975	11	8.45E-03	-0.394508051	11
0.91549793	5	3.64E-03	-0.30209636	5
-0.365246622	5	1.59E+00	-0.368531127	5
-0.025912121	5	3.18E-01	-0.102767593	5
-1	7	1.07E+02	0.466421092	7
0.15015682	5	1.38E-01	0.261684459	5
-0.223279851	7	9.44E-01	0.023941152	7
0	6	2.62E-01	0	6
-0.27727696	6	1.17E+00	0	6
0.788743254	12	1.08E-04	-0.057509256	12
0.534356614	11	1.78E-03	0.364450624	11
-1	4	2.00E+01	0.579299293	4
-0.013858921	14	1.72E-01	-0.298070451	14
0.006193634	17	1.11E-01	-0.433729025	17
0.101487655	5	1.74E-01	0.193521672	5
-0.017255547	71	6.02E-03	0.083109234	71
0.118537704	22	1.28E-02	-0.284919588	22
0.888600213	12	4.27E-05	-0.922668545	12
0.007666228	5	2.71E-01	-0.061452374	5
-0.152115197	7	6.13E-01	-0.047669185	7
-0.126840699	2	4.95E-01	0.07922391	2
-0.482386699	16	4.13E+01	-0.373214687	16
-0.029401911	2	3.77E-01	-0.047118806	2
0.275562609	4	9.77E-02	0.045932061	4
-0.073019296	14	3.24E-01	-0.017062427	14
-0.371016239	13	6.50E+00	-0.159999913	13
-0.960796173	9	2.52E+02	0.322459369	9
-0.559877131	11	2.37E+01	-0.505638707	11
-0.187397327	6	7.21E-01	-0.255840948	6
0.208406022	39	9.05E-05	-0.357987037	39
0.187832017	26	1.96E-03	-0.56385452	26
-0.189121532	44	5.49E+00	-0.14562051	44
0.08111406	1	3.14E-01	0	1
0.064141825	2	2.91E-01	0	2
0	2	3.48E-01	0	2
0	3	3.24E-01	0	3
0	1	3.73E-01	0	1
0	2	3.48E-01	0	2
0	2	3.48E-01	0	2
0	3	3.24E-01	0	3
0	4	3.02E-01	0	4
0	2	3.48E-01	0	2
0.000411521	2	3.47E-01	-0.013614529	2
0.000518629	1	3.73E-01	-0.017158037	1
0.571229848	4	2.91E-02	0.145702318	4
-0.515302017	9	9.45E+00	0.724165551	9
1	5	5.35E-04	1	5

1	5	7.78E-04	2	5
0.088929623	9	1.10E-01	-0.014412399	9
0.303759674	10	1.72E-02	-0.406846368	10
0.050100741	52	1.70E-03	-0.079771091	52
-0.003020271	10	2.02E-01	0.026808721	10
-0.113172894	13	4.94E-01	0.091497396	13
-0.169397013	22	1.25E+00	0.439258979	22
-0.329693757	20	1.19E+01	0.252209557	20
-0.182297278	7	7.37E-01	0.432816831	7
-0.196016757	32	3.39E+00	-0.029492367	32
-0.546778871	15	6.69E+01	-0.448489634	15
-0.806702841	18	4.99E+03	-0.648706362	18
-0.160441199	18	9.42E-01	-0.341809228	18
-0.217746581	3	6.85E-01	-0.137421004	3
-1	14	2.55E+04	-0.358109181	14
0.70072125	5	1.01E-02	-0.55784706	5
0.717214272	15	4.18E-05	-0.561173013	15
0.17379732	17	1.34E-02	-0.448100061	17
-0.14895885	6	5.86E-01	-0.164780641	6
0.099068976	5	1.76E-01	-0.082533107	5
-0.093263081	10	4.17E-01	-0.067377422	10
-0.805505064	9	8.03E+01	-0.293307093	9
-0.333385319	6	1.59E+00	-0.490514731	6
-0.031235377	2	3.79E-01	-0.198087732	2
-0.026560301	9	2.58E-01	-1	9
-0.955888602	1	2.85E+00	-1	1
-1	5	1.07E+02	-1	5
-0.484236792	13	2.02E+01	-0.600250921	13
-2	2	3.84E+01	-0.129910356	2
0.31410622	3	1.10E-01	-0.192757696	3
1	2	1.25E-02	-0.120712875	2
0.258768185	1	2.15E-01	0	1
1	6	8.30E-05	-1	6
-0.596070712	10	2.36E+01	-0.463414115	10
0.237834623	10	2.93E-02	-0.327983497	10
0.980074545	7	6.43E-04	-0.554466106	7
0.735341515	11	3.10E-04	-0.901042633	11
0.238283995	5	9.07E-02	-0.067100929	5
0.314076237	25	2.50E-04	1	25
0.41399818	5	3.94E-02	-0.010053791	5
0.160647853	6	1.10E-01	0.525965325	6
0.007769908	8	2.16E-01	-0.00413034	8
-0.071822218	46	1.50E-01	0.124936694	46
-0.267100163	25	8.05E+00	-0.287875774	25
-0.020995397	7	2.77E-01	-0.008306208	7
0.498332473	4	3.92E-02	0.266929643	4
-0.28110331	10	1.88E+00	-0.397461261	10

-1	8	5.43E+02	0.031749366	8
-0.027139912	25	1.11E-01	2	25
-0.324688575	12	3.55E+00	-0.064905825	12
-0.118174496	14	5.23E-01	-0.047546438	14
0.010370881	36	2.42E-02	0.151981487	36
-0.303891682	15	4.30E+00	0.30023885	15
-0.149204203	3	5.41E-01	-0.222185122	3
-1	12	5.51E+03	-0.514342309	12
0.136250732	14	3.48E-02	0.209226909	14
1	3	2.01E-03	2	3
0.200385937	38	1.38E-04	0.316143862	38
-0.401118018	16	1.56E+01	-0.489224571	16
-0.843415278	13	7.30E+02	-1	13
-1	34	1.08E+11	-0.74805878	34
-0.431062027	18	3.42E+01	0.028230567	18
-1	23	2.10E+07	0.177040957	23
-0.177001202	3	5.95E-01	-0.047933887	3
-2	13	2.00E+06	-1	13
0.049570269	13	9.73E-02	-0.024951475	13
0.025677697	14	1.13E-01	0.205768743	14
-0.015453519	23	1.02E-01	0.458053275	23
-0.353001514	2	9.29E-01	1	2
-0.060510531	7	3.52E-01	0.210007573	7
-0.223246926	2	6.47E-01	0.185180063	2
-0.121269264	18	5.60E-01	0.139880458	18
0.090858498	24	1.53E-02	-0.026925389	24
0	3	3.24E-01	-0.068820745	3
-0.323279105	4	1.13E+00	-0.654148503	4
-0.743868341	18	2.17E+03	-0.934901397	18
2	12	1.19E-09	-0.28100894	12
1	21	1.80E-11	-2	21
1	22	1.07E-09	-0.632920871	22
-0.71688488	24	1.66E+04	-0.620654736	24
0.233598445	11	2.42E-02	-0.037573096	11
-0.064501635	8	3.51E-01	0.166160615	8
-0.006408391	7	2.54E-01	0.085737963	7
-0.237401954	6	9.45E-01	0.139285883	6
-0.216987232	3	6.83E-01	0.051255572	3
0.205179559	4	1.30E-01	0.301530893	4
-0.832341479	36	3.61E+07	-0.035453828	36
-0.180677865	23	1.56E+00	-0.479396744	23
-0.104372604	17	4.49E-01	-0.123610261	17
0.428649019	36	6.75E-07	0.632744511	36
-0.362674135	19	1.63E+01	-0.668716968	19
-2	17	2.39E+08	-2	17
-0.590497865	15	1.10E+02	-0.334481653	15
-0.813346697	4	8.43E+00	-1	4

-0.351206536	2	9.24E-01	-0.461972401	2
-0.382283164	59	2.84E+04	-0.047008437	59
-0.470210775	7	4.22E+00	-0.31252309	7
-0.342957732	3	1.05E+00	0.070563725	3
-0.855467134	6	2.67E+01	-0.041218388	6
-0.703551665	28	6.30E+04	-0.390620427	28
-0.231140163	21	3.07E+00	0.876658311	21
-0.408953695	19	3.10E+01	-0.163554892	19
-0.407066137	19	3.02E+01	-0.093186897	19
0.583791829	24	3.19E-06	-0.104329218	24
-0.754040176	13	2.99E+02	-0.195209085	13
0.08080642	12	8.06E-02	0.207742543	12
-0.051938587	8	3.22E-01	-0.482916612	8
-0.147054086	6	5.80E-01	0.035247589	6
-0.002984075	5	2.85E-01	-0.151654647	5
0.02482906	2	3.24E-01	0.038746135	2
0	1	3.73E-01	-0.005576288	1
-0.143784683	6	5.70E-01	-0.098398825	6
-0.089889689	3	4.41E-01	-0.62779586	3
-0.002686898	3	3.27E-01	-0.147822721	3
0.599609004	4	2.59E-02	-0.356887212	4
-0.118600008	2	4.84E-01	-0.209115367	2
0.162771102	8	7.62E-02	-0.977829515	8
-1	7	5.30E+02	-2	7
-1	3	3.03E+01	-0.770614676	3
-0.107277513	2	4.69E-01	-0.096599626	2
-0.002458065	3	3.27E-01	-0.003058156	3
-0.351204999	7	2.05E+00	0.057543453	7
-0.390180066	3	1.24E+00	-0.534583904	3
-0.042836572	3	3.75E-01	0.019702961	3
-0.792613956	4	7.74E+00	0.062522745	4
-0.04402504	10	2.81E-01	-0.023114456	10
0	3	3.24E-01	-0.006671657	3
-0.456785329	27	3.76E+02	-0.352213618	27
-0.460197276	8	5.00E+00	-0.319214796	8
-2	11	9.53E+05	-1	11
-2	4	1.54E+02	-2	4
-0.667779461	8	2.01E+01	-2	8
-2	6	5.43E+03	-2	6
-3	4	9.77E+03	-2	4
-1	4	7.30E+01	-1	4
-0.919288303	5	2.21E+01	-1	5
0.202323112	4	1.32E-01	-1	4
0.20505358	19	6.00E-03	-1	19
-0.2943081	31	2.72E+01	-0.827093983	31
-0.246305542	36	1.50E+01	-0.831380098	36
0.084782662	2	2.75E-01	-0.280757264	2

-0.241968896	6	9.69E-01	-0.03335225	6
0.733552052	27	4.63E-08	-0.659754591	27
-0.458211898	9	6.21E+00	-0.391925098	9
-0.121534884	12	5.33E-01	-0.893678938	12
-1	14	7.58E+04	-0.697582114	14
-0.43839072	8	4.32E+00	0.424422889	8
0.83798801	5	5.26E-03	1	5
0.375622502	11	7.05E-03	0.801879134	11
-0.858205707	138	4.18E+29	-0.275192969	138
-1	13	1.07E+05	-0.449461758	13
-0.327916524	2	8.66E-01	-0.140837771	2
-0.950086746	2	4.89E+00	-0.82663144	2
-0.78825189	35	7.65E+06	-0.751084513	35
-0.425685098	33	7.23E+02	-0.330554317	33
-0.280406418	14	2.94E+00	-0.134443616	14
-0.075450918	7	3.86E-01	-0.163530078	7
-0.293387326	7	1.44E+00	0.118581149	7
-0.07891967	66	1.28E-01	0.023533712	66
0.030885843	4	2.66E-01	0.028868133	4
0.48066491	8	9.01E-03	0.378813344	8
4.07E-05	6	2.62E-01	0.035586339	6
-2	6	3.97E+03	2	6
0.299451732	5	6.78E-02	2	5
0.189769709	17	1.10E-02	0.434273021	17
0.090551765	8	1.24E-01	0.135870794	8
1	12	2.35E-06	1	12
-0.705077242	3	3.66E+00	-0.288805036	3
-0.226080617	3	7.05E-01	0	3
1	18	8.33E-08	0.406999709	18
2	2	8.42E-04	0.100630964	2
-0.295109782	93	5.55E+04	-0.58789555	93
-0.490115696	35	5.28E+03	-0.530660593	35
-0.403867556	7	2.82E+00	-0.328047591	7
-0.04783568	2	3.97E-01	0.005370823	2
-0.018124815	9	2.42E-01	-0.003160513	9
0	3	3.24E-01	0	3
-0.107543046	30	4.65E-01	-0.019744043	30
-0.045935027	4	3.64E-01	-0.024745834	4
0.216305401	10	3.48E-02	0.073197947	10
-0.619754882	8	1.46E+01	-0.281017859	8
-0.050218777	46	7.55E-02	0.241748894	46
-0.118693232	6	4.98E-01	-0.084722111	6
0.395035178	17	8.24E-04	-0.562476097	17
-1	4	1.85E+01	-0.245936275	4
-0.229280744	17	2.17E+00	0.146327438	17
-0.852301613	8	6.96E+01	0.012831646	8
-0.001010707	3	3.25E-01	-0.010720497	3

0.063804888	8	1.48E-01	-0.056525081	8
0.009836828	2	3.38E-01	-0.004096916	2
-0.366966919	10	3.75E+00	-0.316166614	10
-0.186721581	30	2.48E+00	-0.337087473	30
-0.468293011	7	4.17E+00	0.329215646	7
-1	2	1.66E+01	1	2
-0.242859705	13	1.81E+00	1	13
0.082963896	20	2.90E-02	0.084835192	20
0.059696126	2	2.94E-01	0.04572857	2
-0.275056545	35	2.77E+01	0.177727676	35
0.000777642	9	2.11E-01	0.062399427	9
-0.303880251	13	3.32E+00	-0.159527406	13
0	15	1.39E-01	0	15
-0.329394587	4	1.16E+00	-0.259377958	4
-0.32419694	20	1.10E+01	-0.258117326	20
-0.011334435	26	7.84E-02	0.003023561	26
0.167740328	12	3.58E-02	-0.043615098	12
-0.483700689	9	7.49E+00	0.168996156	9
-0.241661889	3	7.44E-01	-0.092320337	3
-0.352281269	7	2.06E+00	-0.65572518	7
-0.543449438	7	6.57E+00	-0.348075414	7
-0.064320726	10	3.31E-01	-0.022555847	10
-0.004253974	2	3.52E-01	-0.001774099	2
-0.350635611	10	3.29E+00	-0.115644185	10
-0.076259482	12	3.49E-01	-0.219860938	12
2	5	3.01E-05	-0.514859099	5
2	5	4.50E-06	-0.461534917	5
0.236703425	4	1.15E-01	-0.026146464	4
-0.384221525	4	1.45E+00	0.173520638	4
0.12013828	5	1.59E-01	-0.425068063	5
0.323379759	3	1.07E-01	-0.598606389	3
-1	6	1.68E+02	-0.500379752	6
-0.586786632	2	1.78E+00	-0.579222403	2
-0.329630835	9	2.41E+00	-0.116003534	9
-0.503736449	7	5.17E+00	-0.310069402	7
-0.40604341	8	3.47E+00	0.428868341	8
-0.487357427	61	3.17E+06	0.551405277	61
-0.487007205	11	1.26E+01	0.125908587	11
0.076816487	48	1.07E-03	-0.042930692	48
0.004644598	20	9.09E-02	-0.433328142	20
-0.130156179	23	6.77E-01	0.658223573	23
0.734131092	8	1.64E-03	-0.429108273	8
-0.242433659	19	3.05E+00	0.091677772	19
0.605803514	6	9.92E-03	-0.053154084	6
0.48911745	2	8.91E-02	0	2
0.018362499	5	2.58E-01	0	5
-0.389480045	14	9.41E+00	2	14

-0.315643396	13	3.74E+00	-0.354895613	13
-0.313230474	7	1.63E+00	-0.185124029	7
-0.997261264	6	5.74E+01	-0.515179426	6
0.157033898	3	1.89E-01	-0.042782229	3
-2	25	2.58E+11	1	25
-0.805584588	5	1.29E+01	-0.072838143	5
-0.087719162	46	2.47E-01	0.125700311	46
-0.045980904	1	4.12E-01	0.112319827	1
-0.024094633	2	3.72E-01	0.019425157	2
-0.091978683	16	3.88E-01	0.33356746	16
0	5	2.81E-01	0	5
0	1	3.73E-01	0	1
-2	13	2.63E+07	-1	13
-0.722223077	11	9.72E+01	-0.576121182	11
1	9	9.12E-05	-0.323055445	9
1	2	8.58E-03	-0.773200022	2
1	4	3.27E-03	-0.795208283	4
-0.251561151	3	7.69E-01	-0.521024286	3
-0.229646654	3	7.13E-01	-0.1718902	3
-0.905346456	7	5.89E+01	-0.126805147	7
-0.210211112	16	1.59E+00	0.421350523	16
-0.839646221	3	5.81E+00	-0.17987936	3
-0.442020071	4	1.84E+00	-0.99690748	4
0.50659421	6	1.70E-02	-0.709992565	6
0.080169354	2	2.78E-01	-0.028606289	2
0.389763043	5	4.42E-02	-0.528049691	5
0.049006145	1	3.36E-01	-0.032276541	1
-0.462155546	11	1.02E+01	-0.96914496	11
0.947817278	28	3.82E-10	-0.756192197	28
-0.09419435	5	4.40E-01	-0.752028603	5
-0.201477955	2	6.09E-01	-1	2
-0.524479566	7	5.86E+00	-0.457731535	7
-0.302045955	5	1.18E+00	-0.647321538	5
-0.053536583	3	3.89E-01	-0.28025558	3
-1	1	3.39E+00	-0.297606441	1
-1	6	2.98E+02	-0.658415888	6
-0.094471462	6	4.36E-01	-0.239680599	6
-0.012139579	5	2.98E-01	-0.565256258	5
-0.231070568	6	9.13E-01	-0.613708129	6
-0.389215357	3	1.23E+00	-0.395796428	3
0.497953023	2	8.70E-02	0.202681701	2
-0.100191922	5	4.52E-01	0.112991758	5
-0.180336946	2	5.74E-01	0.001196874	2
-0.492415997	5	2.91E+00	0.183566303	5
-0.127645982	22	6.42E-01	0.0531642	22
4.72E-05	6	2.62E-01	0.003241743	6
-0.416875375	33	5.90E+02	0.14097873	33

-0.751134959	13	2.90E+02	0.060302961	13
-0.04232082	23	1.58E-01	0.028786904	23
0	9	2.12E-01	0.002878705	9
0.023875585	17	8.90E-02	-0.015118924	17
-0.016160995	3	3.42E-01	-0.001689771	3
-0.139457455	17	6.98E-01	-0.38273715	17
0.447613541	86	5.19E-15	-0.312593874	86
2	24	1.36E-16	-0.491560435	24
-0.004865741	2	3.52E-01	0.000636274	2
-0.147150191	15	7.31E-01	0.38345743	15
-0.088088623	113	1.04E-01	0.937295292	113
-0.210611126	49	1.47E+01	1	49
-0.059203605	7	3.49E-01	0.048545824	7
-2	3	6.96E+01	-2	3
0.550709273	2	7.51E-02	-0.63064191	2
-0.226413114	10	1.21E+00	-0.364484489	10
-0.535430419	6	4.73E+00	-0.799818959	6
0.038343214	12	1.20E-01	0.024607802	12
-0.764873498	11	1.41E+02	-0.375734683	11
0.417718571	18	4.39E-04	0.374429295	18
-0.192035672	7	7.81E-01	0.026778756	7
-0.035594527	19	1.71E-01	2	19
-0.166572059	16	9.46E-01	-0.084727219	16
-0.524902364	13	3.03E+01	0.12393463	13
-0.334285826	21	1.48E+01	-0.230848185	21
-0.509932556	1	1.10E+00	-0.537952545	1
-2	3	9.63E+01	-0.843342068	3
-0.020576136	24	1.04E-01	0.09397074	24
-1	31	1.44E+11	-1	31
-0.528883518	13	3.15E+01	-0.734475629	13
-0.858582226	20	2.66E+04	-1	20
-1	13	2.14E+04	-0.730394435	13
-0.052937942	10	3.02E-01	0.000375036	10
-0.230693344	46	2.27E+01	-0.298620386	46
0.685210106	5	1.09E-02	0.121882664	5
0.001631894	18	1.10E-01	0.051004776	18
-0.039691292	20	1.73E-01	0.400898487	20
2	8	1.22E-06	0.185812937	8
-2	10	9.43E+04	-2	10
-2	5	7.38E+02	-1	5
-0.770988483	4	7.09E+00	-1	4
-1	14	2.80E+04	-0.455909697	14
-0.939487621	7	7.24E+01	2	7
-1	12	4.40E+03	0.259428684	12
-0.244666771	11	1.54E+00	-0.473037676	11
-0.028556832	7	2.90E-01	0.49615389	7
0.036116392	5	2.37E-01	0.023939032	5

-0.047060953	15	2.36E-01	0.212782705	15
-0.51219619	3	1.88E+00	1	3
-0.117680013	6	4.95E-01	0.20613615	6
0	1	3.73E-01	0	1
-0.062629389	3	4.02E-01	-0.00220068	3
-0.405650618	16	1.65E+01	-0.074336261	16
-0.062091109	37	1.44E-01	-0.167786756	37
-0.869843755	16	4.25E+03	-0.064544046	16
-2	10	7.83E+04	0.313090073	10
-2	3	1.58E+02	0.05433548	3
-0.741294604	18	2.10E+03	2	18
-0.829567054	9	9.58E+01	0.048076584	9
-0.24088895	20	3.26E+00	-0.761109435	20
-0.367591451	79	4.73E+05	-0.424465684	79
-0.956941418	17	2.10E+04	-1	17
-0.08696646	2	4.43E-01	-0.050405712	2
-0.537295497	77	2.27E+09	-0.372550481	77
-0.671160307	9	2.98E+01	-0.537618113	9
-0.119397045	8	5.07E-01	-0.246979142	8
-0.921090885	5	2.23E+01	-2	5
-1	25	6.57E+08	0.244157536	25
0.351744767	4	7.15E-02	0.356565212	4
0.169113228	9	6.09E-02	0.123082401	9
-0.055927552	22	2.05E-01	0.141110697	22
-0.167035855	18	1.03E+00	0.396304331	18
-0.605501478	10	2.55E+01	-0.478829059	10
0.13749949	16	2.49E-02	0.133333706	16
2	5	6.83E-05	2	5
-0.209122671	43	9.42E+00	-0.014678343	43
-1	17	2.84E+06	-0.337379317	17
-0.554278087	15	7.29E+01	-0.503935402	15
-0.277547917	10	1.83E+00	-0.298105469	10
-0.386814447	12	6.34E+00	-0.796573128	12
2	7	8.78E-08	1	7
0.520982515	12	1.32E-03	-0.144482884	12
-0.376907271	1	8.32E-01	-1	1
-1	3	2.36E+01	-0.657206091	3
-0.04794032	24	1.67E-01	0.288117698	24
0.239933404	2	1.78E-01	0.326955162	2
0.357664933	14	3.30E-03	0.559897994	14
-0.014595384	7	2.67E-01	0.005154973	7
0.529537519	21	2.84E-05	-0.020420524	21
0.519360642	7	1.05E-02	0.029607513	7
0.152430659	13	3.48E-02	-0.315182284	13
-1	11	2.33E+03	-0.407587748	11
0.025568241	1	3.53E-01	-0.193189757	1
0.049618702	4	2.46E-01	-0.217414774	4

0.400523572	6	3.01E-02	-0.464911502	6
-0.764129354	6	1.63E+01	-0.398053231	6
0.474685868	7	1.37E-02	1	7
0.158599079	26	3.37E-03	2	26
0.502229956	22	2.88E-05	-0.012334431	22
-0.019882031	19	1.38E-01	-0.076385091	19
1	7	2.48E-04	-0.522131507	7
-0.218472522	19	2.19E+00	-0.490529842	19
-0.749621198	4	6.49E+00	-0.159475632	4
-0.091220618	2	4.48E-01	-0.067778935	2
-0.628883971	8	1.55E+01	0.275495469	8
-1	11	1.72E+03	-0.697673162	11
-0.633746731	8	1.60E+01	-0.879144652	8
-0.150265289	18	8.23E-01	-0.515408993	18
0.522557839	9	4.50E-03	-0.238280931	9
-0.566310064	2	1.68E+00	-0.583878551	2
-0.681181113	5	7.14E+00	-0.152498955	5
2	16	3.32E-14	-0.796560353	16
-0.236953295	5	8.66E-01	-0.519349563	5
-0.448475728	8	4.62E+00	-0.597419042	8
-0.757833126	8	3.69E+01	-0.983980713	8
-0.547428192	4	2.84E+00	-0.234608573	4
-0.201126951	3	6.47E-01	-0.076298237	3
-0.293081357	3	8.87E-01	-0.842546202	3
-0.75138791	3	4.29E+00	-2	3
1	5	2.02E-03	-0.355266921	5
0.298484072	5	6.81E-02	-0.101431739	5
0.254423129	32	1.38E-04	-0.577707731	32
0.021896985	29	3.28E-02	-0.19497921	29
-0.230037278	11	1.35E+00	-0.093233279	11
-0.039743923	1	4.06E-01	-0.003806338	1
-0.023125025	6	2.97E-01	-1.06E-06	6
-0.160430394	6	6.23E-01	-0.425574821	6
-0.018779312	2	3.66E-01	-0.046486326	2
-0.08481556	5	4.21E-01	-0.145266438	5
0.300672928	11	1.35E-02	-0.40367036	11
-0.356810511	6	1.80E+00	-0.164219701	6
-0.138717076	16	6.78E-01	-0.163346978	16
-0.333698242	9	2.48E+00	-0.148900416	9
0.127705791	9	8.26E-02	0.030560931	9
-0.046047114	24	1.62E-01	0.03057007	24
0.157750348	20	9.75E-03	-0.057621225	20
-0.070589195	5	3.93E-01	-0.013145414	5
0.024480011	21	6.24E-02	-0.00051859	21
-0.018891872	2	3.66E-01	-0.037560974	2
-2	4	3.98E+02	-0.305369598	4
-0.094902094	20	3.88E-01	-0.038291362	20

-0.290057068	11	2.28E+00	-0.081066501	11
-0.010974946	7	2.61E-01	-0.002311869	7
-0.156704979	30	1.31E+00	0.14339938	30
-0.216318258	10	1.12E+00	0.444423125	10
-0.178502233	6	6.87E-01	0.255088644	6
-0.333437216	81	1.03E+05	-0.110646341	81
-0.39624048	6	2.23E+00	0.194678133	6
-0.132883811	3	5.12E-01	0	3
0.042983782	12	1.15E-01	0	12
0	2	3.48E-01	0.002621696	2
-0.017212529	5	3.05E-01	0.048077235	5
-0.048916431	20	1.98E-01	0.077749392	20
-0.242634889	10	1.38E+00	-0.120544445	10
-0.40377909	3	1.30E+00	-0.143054745	3
-0.249314975	10	1.46E+00	0.153390565	10
-0.092087915	5	4.35E-01	-0.495461988	5
0.698733539	8	2.08E-03	-0.211545178	8
-0.260984195	5	9.71E-01	-0.304559304	5
-0.35586407	6	1.79E+00	-0.308495714	6
0	4	3.02E-01	-0.001730899	4
0	1	3.73E-01	0	1
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0	4	3.02E-01	0	4
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0.671872873	3	3.22E-02	-0.077612961	3
0.393981594	3	8.36E-02	-0.015169125	3
2	4	1.45E-04	-0.519230974	4
0.207595952	5	1.05E-01	-0.753901239	5
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0	4	3.02E-01	0.010391739	4
-0.887094551	5	1.90E+01	-0.176751691	5
-0.289792248	6	1.25E+00	-0.310574105	6
-0.465983209	8	5.20E+00	-0.053654213	8
0.142873808	2	2.34E-01	-0.006874326	2
-0.021668826	6	2.94E-01	-0.190252184	6
-0.057450274	7	3.46E-01	-0.123798773	7
0.32059847	6	4.63E-02	-0.353531004	6
0.587438829	6	1.10E-02	-0.135534121	6
-0.056559348	6	3.56E-01	-0.335800596	6
0.34163784	9	1.71E-02	-0.482169436	9
0.792528327	13	5.80E-05	-0.633902003	13
0.337774579	4	7.57E-02	-0.23017326	4
0.107290192	9	9.61E-02	-1	9
-0.052421877	6	3.48E-01	-0.009591856	6
-0.254223606	5	9.40E-01	-0.282637591	5

-0.156219813	5	5.90E-01	-0.810786309	5
-0.473629862	3	1.65E+00	-0.754298835	3
0.306448992	4	8.61E-02	-0.777675855	4
0.015312286	3	3.07E-01	-0.01903928	3
-0.160581358	3	5.63E-01	-0.009428539	3
-0.205461681	7	8.48E-01	-0.598475354	7
0.242885122	3	1.41E-01	-0.245311108	3
0.033237267	8	1.82E-01	-0.375525211	8
-0.242917116	3	7.47E-01	-0.550722943	3
-0.971118061	9	2.72E+02	-0.972640897	9
-0.064475282	4	3.93E-01	0	4
-0.017641316	1	3.87E-01	0	1
-0.377708981	7	2.41E+00	-1	7
-0.012717153	2	3.60E-01	-0.009348786	2
0	1	3.73E-01	-0.010839279	1
0.749509241	3	2.46E-02	-0.411246318	3
1	10	1.14E-05	-0.397083651	10
2	8	5.60E-08	-0.767893809	8
0.514137716	6	1.63E-02	-0.180253196	6
2	9	8.68E-07	-1	9
0.592474891	9	2.69E-03	-0.507489121	9
-0.338391196	6	1.63E+00	-0.368791138	6
-0.151825875	3	5.46E-01	-0.058404088	3
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1	6	1.52E-04	1	6
0.212638895	16	1.01E-02	0.420286879	16
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-0.271316191	21	5.65E+00	-0.283248996	21
-0.045429945	19	1.96E-01	-0.241942358	19
0.054246253	55	1.07E-03	0.01745567	55
-0.013483796	75	3.92E-03	0.007416398	75
0.030359452	8	1.85E-01	0.046916532	8
-0.521265322	3	1.94E+00	-0.182999617	3
-0.110122357	11	4.78E-01	-0.0187405	11
0.028759735	14	1.09E-01	-0.00539222	14
0.005688256	5	2.74E-01	-0.000801185	5
0	2	3.48E-01	0	2
0.007424303	2	3.41E-01	-0.002090916	2
0.045610331	16	7.48E-02	-0.005580185	16
0	8	2.27E-01	0	8
0	17	1.20E-01	0	17
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0.208225471	5	1.05E-01	0.079738501	5
0	20	9.72E-02	0.007794559	20
0.248946989	2	1.74E-01	0.385268521	2
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1	5	6.77E-04	0.346288213	5
0.879541034	24	1.97E-08	0.479098289	24
-0.001164522	12	1.73E-01	0.011276962	12
0	6	2.62E-01	0.083022566	6
-1	5	2.97E+02	-0.296399489	5
-0.387444981	4	1.47E+00	-0.193404264	4
-0.060823306	1	4.25E-01	0	1
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0	2	3.48E-01	-0.003601864	2
0.00809334	6	2.51E-01	-0.184255262	6
-0.126112003	6	5.18E-01	-0.047131914	6
0	1	3.73E-01	0	1
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0.356078928	24	1.60E-04	-1	24
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-0.210130083	8	9.32E-01	-0.112427504	8
2	12	3.43E-09	-0.820979491	12
-0.014543776	1	3.85E-01	0	1
-0.792881977	11	1.79E+02	-0.913251829	11
0.040220823	32	1.69E-02	-0.85616773	32
0	9	2.12E-01	1.03E-05	9
-0.38614847	6	2.11E+00	-0.423362179	6
-0.014759741	1	3.85E-01	-0.009226637	1
-0.32535491	6	1.52E+00	-0.217972119	6
0	4	3.02E-01	0	4
0	9	2.12E-01	-0.024758157	9
0	8	2.27E-01	-0.02695343	8
0	2	3.48E-01	0	2
0.235323182	31	2.65E-04	0.773901372	31
-0.287420015	21	7.23E+00	0.141102364	21
0	8	2.27E-01	0	8
0.025459918	14	1.13E-01	0.046520721	14
-0.00535114	35	3.83E-02	-0.038171906	35
-0.000830901	5	2.82E-01	-0.000911201	5
-0.12926037	5	5.19E-01	-0.133586331	5
-0.039802909	3	3.71E-01	0.121197632	3
-0.070144896	20	2.70E-01	-0.042455609	20
-0.107071485	5	4.68E-01	-0.163346048	5
-0.587008345	4	3.34E+00	-0.355187594	4
-0.698594207	14	2.53E+02	-1	14
-0.613372989	18	3.84E+02	-0.522858395	18
0	1	3.73E-01	0	1
0	9	2.12E-01	0	9
0	7	2.44E-01	0	7
-0.327311861	79	5.54E+04	-0.003152502	79
0	2	3.48E-01	0	2

-0.080271204	7	3.97E-01	-0.030083725	7
-0.750142076	5	9.91E+00	0.066656407	5
0.095516643	2	2.67E-01	0.687858324	2
-0.0066171	7	2.54E-01	0.07384857	7
-0.514991055	22	3.02E+02	-0.608810729	22
0.041308624	2	3.10E-01	-0.344945436	2
-0.807693991	30	1.24E+06	-1	30
-0.179457488	16	1.10E+00	-0.637039068	16
-1	11	3.83E+04	-1	11
-0.034400627	2	3.83E-01	-0.04338789	2
-0.673616179	4	4.76E+00	-0.038620821	4
-0.005609137	9	2.21E-01	0.059568971	9
-0.527220126	17	9.30E+01	0.514452572	17
-0.292748329	43	1.12E+02	0.656832262	43
-0.193699881	27	2.43E+00	-0.151446478	27
-1	3	3.81E+01	-0.700174293	3
-2	4	1.75E+02	-1	4
0	1	3.73E-01	0	1
0	2	3.48E-01	-0.068375421	2
0	3	3.24E-01	-0.00249763	3
-0.247546269	10	1.44E+00	-0.0700055	10
0.146892852	7	1.00E-01	-0.007229409	7
0.001343586	11	1.82E-01	0.320490857	11
-0.904728034	3	7.27E+00	-0.47516872	3
-0.119397994	7	5.03E-01	-0.108677687	7
-0.957022342	7	8.06E+01	-0.829685918	7
-0.095188752	39	3.32E-01	0.093686757	39
-0.073353324	67	9.74E-02	-0.033402104	67
-0.097577048	7	4.41E-01	-0.411496515	7
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-0.09834194	4	4.51E-01	0	4
0.117362452	10	7.69E-02	-0.033527232	10
-0.521214735	5	3.34E+00	-0.224133648	5
-1	9	3.35E+03	-1	9
0.313079014	4	8.38E-02	-0.020511166	4
-0.82401421	7	3.60E+01	-0.412111817	7
-0.423996537	10	5.93E+00	-0.662942672	10
-0.962688554	10	4.48E+02	-1	10
-0.024041936	1	3.93E-01	0.006611791	1
-0.088714618	6	4.23E-01	-0.119391748	6
-1	9	2.04E+03	-1	9
-0.627332825	8	1.54E+01	-0.355710378	8
-0.544728548	6	4.97E+00	-0.784423318	6
-0.165942573	11	7.77E-01	-1	11
-0.015061157	5	3.02E-01	-0.164670426	5
-0.758511602	10	8.69E+01	-1	10
-0.212832309	7	8.86E-01	-1	7

-1	4	2.90E+01	-0.895286367	4
-0.352983719	5	1.50E+00	-0.306041709	5
-0.162521406	10	7.27E-01	-0.139568023	10
-0.096847082	7	4.39E-01	-0.103639117	7
-0.059744189	20	2.32E-01	-0.022493967	20
0.145017993	5	1.41E-01	-0.000740051	5
-0.383753946	26	7.74E+01	-0.098782039	26
-0.74922555	7	2.29E+01	-0.779471822	7
0.352877802	7	2.88E-02	-0.740654569	7
1	12	5.85E-07	-0.479647907	12
0.034003342	24	4.08E-02	-0.016722178	24
-0.05611216	4	3.80E-01	-0.086311997	4
-0.105013693	4	4.64E-01	-0.733539312	4
-0.041492738	11	2.64E-01	-0.001906025	11
-0.007414888	5	2.91E-01	-0.003113337	5
-0.116897331	24	5.47E-01	-0.076543094	24
-0.420404394	8	3.83E+00	-0.115792641	8
-0.653721232	18	6.56E+02	-0.543171707	18
0.032893985	7	2.00E-01	0.148745735	7
0.204398496	4	1.31E-01	0.245356099	4
0	2	3.48E-01	0	2
0	5	2.81E-01	0	5
0	4	3.02E-01	0	4
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0.432952479	11	4.29E-03	-0.11457379	11
0.037598476	11	1.33E-01	-0.297125179	11
-0.006364483	6	2.71E-01	-0.09048852	6
0.214227509	12	2.32E-02	-0.086611982	12
-2	2	2.56E+01	-0.924851011	2
0.282652503	15	5.68E-03	-2	15
0.200778598	7	7.23E-02	-0.102071148	7
-0.045105059	3	3.78E-01	0.117030044	3
0.339476181	7	3.12E-02	-0.118170383	7
0.721775846	9	1.04E-03	-1	9
0.121119554	2	2.48E-01	-0.007202092	2
0	1	3.73E-01	0	1
-0.037483857	32	9.64E-02	0.041830427	32
0.095157344	9	1.05E-01	-0.01880518	9
0.919189431	13	1.64E-05	-0.210959931	13
-0.311182486	8	1.84E+00	-0.160544193	8
-0.073223632	28	2.36E-01	0.007688618	28
0	1	3.73E-01	0.003577252	1
0.000288008	3	3.24E-01	-0.019175169	3
-0.484323162	63	4.58E+06	1	63
-0.588912609	23	1.34E+03	0.32006283	23
-0.088029766	10	4.00E-01	-0.24956868	10
0.531088343	6	1.48E-02	-0.327360338	6

-0.002694479	6	2.66E-01	-0.001692983	6
0	5	2.81E-01	0.09205088	5
-0.392588292	3	1.25E+00	-0.058299305	3
0.073991038	40	3.04E-03	0.410208572	40
0.456411825	13	1.67E-03	0.369033144	13
-0.183095708	6	7.05E-01	-0.005845586	6
-0.094602257	4	4.45E-01	-0.101852681	4
-0.037791709	23	1.47E-01	-0.017303658	23
-2	2	5.83E+01	-0.362103294	2
-0.656698992	11	5.50E+01	-0.264645885	11
0	7	2.44E-01	0	7
-0.009003026	4	3.13E-01	0.047547804	4
-0.372696356	23	3.75E+01	-0.379762407	23
0.243233247	128	4.46E-14	-0.393165521	128
0.033381715	10	1.51E-01	-0.056529897	10
0.038004698	1	3.44E-01	0	1
0.025603888	2	3.24E-01	0.003781518	2
0.008758155	16	1.16E-01	-0.063063351	16
-0.049751666	13	2.62E-01	-0.036105538	13
0.447983605	32	1.79E-06	0.489072517	32
0.107064795	11	7.26E-02	-0.123430258	11
0	3	3.24E-01	0	3
0.176566319	8	6.95E-02	0.00185611	8
0.220176372	11	2.72E-02	-0.294331891	11
-0.533615903	7	6.19E+00	-0.224756608	7
-0.851934127	32	8.39E+06	-1	32
0.626699031	16	7.18E-05	-0.849541112	16
-0.00159609	5	2.83E-01	0.026894464	5
0.060652427	35	7.65E-03	0.316891466	35
-0.194748531	8	8.41E-01	0.032419122	8
-0.37592322	9	3.38E+00	-0.065475387	9
0.009920188	3	3.13E-01	0.814412877	3
-0.324493387	4	1.14E+00	0.27913153	4
-0.229977818	10	1.25E+00	-0.159660319	10
-0.10583161	15	4.58E-01	-0.198044371	15
-0.868678423	5	1.74E+01	-1	5
-0.17958032	11	8.74E-01	-0.123121797	11
-0.275881422	12	2.25E+00	-0.212934896	12
-0.001734664	9	2.15E-01	-0.048125441	9
-0.054389193	6	3.51E-01	-0.052532599	6
-0.02399415	2	3.72E-01	-0.001221676	2
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-0.137416349	8	5.72E-01	-1	8
0.187879029	5	1.15E-01	-0.105005343	5
0.065792172	6	1.84E-01	-0.126923889	6
-0.075391507	11	3.54E-01	-0.013895973	11

0.127999006	13	4.44E-02	0.076820784	13
-0.22022988	7	9.27E-01	-0.310427916	7
-0.224404173	5	8.16E-01	-0.055985738	5
-0.719716404	16	7.06E+02	-0.568445436	16
-0.93301503	5	2.36E+01	-1	5
-0.70338132	5	7.94E+00	-0.272310897	5
-0.657498675	79	2.40E+12	-0.236356908	79
0.2689245	3	1.29E-01	-0.124675541	3
-0.618644811	4	3.80E+00	-0.045887129	4
-0.977504558	26	4.60E+06	-0.943672204	26
-0.557910239	7	7.17E+00	-0.732727699	7
-0.030448391	31	8.66E-02	0.102233679	31
-0.162228533	7	6.52E-01	-0.009473069	7
-1	8	4.84E+03	-2	8
-2	5	1.06E+04	-2	5
-0.175115362	8	7.37E-01	-0.08944145	8
0	4	3.02E-01	0	4
0	3	3.24E-01	0	3
-0.151350149	86	5.76E+00	0.29285041	86
-0.162359665	7	6.53E-01	-0.002177008	7
-1	23	2.85E+06	-0.794629444	23
0.056803977	1	3.31E-01	0.1250076	1
-0.21064141	9	1.00E+00	0.919692348	9
3	3	1.76E-05	2	3
0.028068833	19	7.06E-02	0.027762076	19
-0.118207059	6	4.96E-01	-0.033400434	6
0.006419171	17	1.11E-01	0.604069931	17
-0.137491944	3	5.20E-01	0	3
-0.052945559	20	2.10E-01	-0.001537951	20
0.045537715	4	2.50E-01	-0.006905181	4
0.038218753	9	1.60E-01	0.646195333	9
-1	6	1.22E+02	-0.265478557	6
0	3	3.24E-01	-0.040756959	3
-0.067841176	7	3.68E-01	-0.234048397	7
-0.185358955	12	9.67E-01	-0.086122911	12
-0.083101878	7	4.04E-01	0.011353931	7
0.349644224	25	1.33E-04	0.233750685	25
0.306322889	5	6.56E-02	-0.481604159	5
-0.068225679	15	3.00E-01	-0.38801086	15
-0.009323221	6	2.75E-01	-0.081112625	6
-0.342936193	4	1.23E+00	-0.092119571	4
-0.090410731	30	3.24E-01	0.423762534	30
-0.341940771	10	3.07E+00	-0.246548438	10
-0.185374672	21	1.53E+00	0.030059866	21
-0.149140604	10	6.53E-01	0.019537816	10
0	1	3.73E-01	-0.005158813	1
-0.203508732	6	7.87E-01	-0.050010383	6

-1	6	1.26E+02	-0.250923419	6
-0.450257053	5	2.39E+00	-0.603234395	5
-1	11	9.04E+03	-2	11
-0.422614055	7	3.16E+00	-0.014514214	7
-0.786714354	51	9.09E+09	-0.514827485	51
-0.192561016	1	5.62E-01	-0.040030014	1
-0.061757755	7	3.55E-01	0	7
0.007255528	13	1.48E-01	0.285979973	13
-0.01216788	3	3.38E-01	0.026235233	3
-0.170392547	10	7.75E-01	0.091726309	10
0.089972474	6	1.61E-01	0.071624195	6
0.139846951	14	3.35E-02	0.220125166	14
-0.050801182	10	2.97E-01	0.045660558	10
-0.00504847	5	2.88E-01	-0.000882374	5
-0.261838259	57	1.85E+02	-0.636471401	57
-0.323506743	13	4.05E+00	-0.071459552	13
-0.306887014	31	3.58E+01	1	31
-0.20683939	6	8.01E-01	0.184021291	6
-0.297425081	8	1.68E+00	0.477809561	8
0.461274269	7	1.49E-02	0.345783331	7
0.120999634	4	1.84E-01	0.081506341	4
0.825789749	15	1.22E-05	0.407499208	15
0.064500858	4	2.32E-01	-0.156070418	4
-0.071875618	23	2.58E-01	-0.008204325	23
0.674417015	6	6.84E-03	0.808592862	6
0.166246035	11	4.34E-02	0.96431812	11
-2	17	8.77E+07	-0.297943621	17
-0.40883506	21	4.60E+01	-0.291811412	21
-0.765328293	3	4.50E+00	-0.017881124	3
-0.527687463	10	1.36E+01	-0.799654904	10
-0.729476357	9	4.58E+01	-0.401295556	9
-0.140933479	6	5.61E-01	0.152806208	6
0.002022904	11	1.81E-01	-0.207077942	11
0.063864608	4	2.32E-01	-0.284889864	4
-0.905990675	8	9.98E+01	-0.02984599	8
1	10	3.12E-06	-0.871180935	10
-0.060492736	5	3.75E-01	-0.290485483	5
-1	13	1.50E+05	-0.632206169	13
-0.311756292	11	2.75E+00	-0.294206894	11
-0.025581769	7	2.85E-01	0.011615238	7
0.577076154	8	4.72E-03	0.237429945	8
2	6	4.42E-07	2	6
2	7	1.95E-06	0.503813592	7
-0.763697144	10	9.06E+01	-0.343280902	10
0.348390067	5	5.38E-02	-0.551130864	5
0.198084004	28	1.09E-03	-0.593802336	28
0.259676388	32	1.22E-04	0.484889998	32

0	1	3.73E-01	-0.004170709	1
0.001679473	7	2.42E-01	0.044270023	7
-0.062575799	10	3.26E-01	0.908624505	10
0.095192839	2	2.67E-01	-0.187467699	2
-0.438471535	4	1.82E+00	-1	4
-1	3	2.04E+01	-1	3
-0.000941897	7	2.45E-01	0	7
0.157206897	18	1.39E-02	-0.368142804	18
0.046534632	11	1.23E-01	-0.202242389	11
-1	55	7.07E+14	0.609116456	55
-0.462212972	31	1.06E+03	-0.119722911	31
-0.783933006	9	6.85E+01	-0.407532923	9
-0.343208178	22	1.97E+01	0.346846367	22
-0.956742881	14	3.95E+03	-0.420275594	14
-0.281730389	5	1.07E+00	-0.531555803	5
1	12	7.52E-06	-1	12
-0.427457361	16	2.14E+01	-0.160043496	16
0.27130536	21	1.45E-03	0.019696406	21
0.220260737	9	4.18E-02	0.721484825	9
-2	12	2.93E+08	-1	12
-0.629448186	12	6.11E+01	-0.45890438	12
2	10	4.24E-07	0.269803767	10
-2	3	7.85E+01	-1	3
-2	4	2.53E+02	-0.775992973	4
-1	9	4.82E+02	-1	9
-0.529612852	9	1.05E+01	-0.287084184	9
-0.119309383	20	5.54E-01	-0.054814522	20
-0.238462554	12	1.59E+00	0.117247488	12
-0.106822521	6	4.67E-01	-0.352899224	6
-0.990733734	7	9.88E+01	-0.720445556	7
-1	4	3.44E+01	-1	4
-0.815186776	9	8.62E+01	-0.739684309	9
-0.833374481	22	4.76E+04	0.204398628	22
-0.034074951	2	3.82E-01	-0.012089379	2
-1	4	1.89E+01	0.780576101	4
0.299862903	16	3.58E-03	-0.638563956	16
-0.114912066	5	4.85E-01	-0.412533364	5
-0.456914851	38	4.67E+03	-0.378110427	38
0.767086802	11	2.36E-04	-0.152108614	11
-2	9	1.73E+04	-0.639389552	9
-0.329747717	7	1.80E+00	-0.337088942	7
-0.486631584	41	2.15E+04	-0.577959982	41
0.039753376	28	2.51E-02	0.384842162	28
-1	7	8.00E+02	-1	7
-0.94206598	10	3.79E+02	-0.277454482	10
0.268582972	29	2.10E-04	0.496216906	29
-0.445082047	18	4.11E+01	-0.531711477	18

-0.959733278	14	4.08E+03	-0.884120409	14
-0.026831779	2	3.75E-01	0.088839386	2
0.01348385	9	1.92E-01	-0.797703514	9
0.592840624	9	2.68E-03	-1	9
-0.411584943	5	1.99E+00	-0.663310056	5
-1	3	1.27E+01	-0.852070604	3
-0.550225231	9	1.22E+01	-0.291227403	9
-1	24	7.25E+06	-0.742603463	24
0.04966518	6	2.00E-01	-0.157273752	6
-0.23438179	25	4.49E+00	0.022611926	25
2	13	2.87E-10	2	13
2	9	9.13E-08	1	9
0.233903264	93	2.52E-10	0.581436046	93
-1	22	1.63E+09	-0.151385176	22
-0.362156335	20	1.91E+01	0.210057811	20
0.746601169	7	2.65E-03	-0.076166968	7
0.403751127	5	4.13E-02	0.034903117	5
-0.129140741	6	5.26E-01	-0.592695452	6
-0.741327301	7	2.18E+01	-0.249541383	7
-0.546208913	6	5.01E+00	-0.102703267	6
-1	10	9.81E+02	-2	10
-0.351604486	9	2.83E+00	-0.853405691	9
-0.505083595	11	1.48E+01	-0.836860529	11
-1	5	3.52E+01	0.815636061	5
-1	6	8.88E+01	-0.027216079	6
-2	13	1.33E+07	-0.694281611	13
-0.341898247	29	5.65E+01	0.359562862	29
0.069528322	1	3.22E-01	0.569866295	1
-0.017036572	1	3.87E-01	-0.002610412	1
-0.342559801	5	1.43E+00	-0.214539403	5
-0.114175752	2	4.78E-01	-0.14825899	2
-0.790067038	7	2.93E+01	-0.986282626	7
-0.206374406	16	1.52E+00	0.015000574	16
-0.896872216	11	4.43E+02	0.10578648	11
-0.044890269	12	2.60E-01	-0.089115419	12
0.007035764	11	1.73E-01	2	11
-0.721925828	5	8.67E+00	-0.725332544	5
-0.291340095	8	1.61E+00	-0.166325203	8
0	3	3.24E-01	-0.006851912	3
0.081207278	24	1.81E-02	-0.056852317	24
-0.182040861	13	9.84E-01	0.011275563	13
-0.451882432	4	1.92E+00	-0.259425352	4
-0.67353736	1	1.56E+00	-0.495077322	1
-0.397689574	50	9.55E+03	2	50
0.586852232	11	1.13E-03	0.489751552	11
-0.385507687	6	2.10E+00	-0.390467974	6
-0.383339258	4	1.45E+00	-0.226169193	4

0.016596185	12	1.47E-01	-0.299447205	12
-1	3	4.63E+01	-0.203782382	3
-0.171316846	6	6.61E-01	0.232491998	6
-0.851205472	91	2.50E+19	0.293515957	91
-1	13	5.57E+03	-0.650352432	13
-0.334421682	3	1.02E+00	0.217507384	3
0.746461594	10	4.93E-04	-0.857032545	10
0	4	3.02E-01	-0.004480983	4
0	4	3.02E-01	0.262425314	4
-0.20881354	7	8.65E-01	0.359734905	7
-0.063767167	5	3.81E-01	0.020526171	5
-0.457949423	6	3.11E+00	-0.623390859	6
0.205275886	6	8.64E-02	0.244280163	6
-0.194517078	4	6.69E-01	-0.613245258	4
-1	15	1.51E+04	-0.920777001	15
0.514763452	7	1.08E-02	-0.367689184	7
0.64413353	6	8.06E-03	0.066959919	6
0.320035689	5	6.15E-02	0.090567307	5
-0.072604836	26	2.44E-01	-0.009013031	26
-0.207348136	6	8.03E-01	-0.294714706	6
-0.113163462	5	4.81E-01	-0.271925578	5
0.544639226	8	5.87E-03	0.91963484	8
2	10	9.39E-10	1	10
-0.381042624	12	6.01E+00	-0.092054169	12
-0.84662878	5	1.57E+01	-0.651025979	5
-0.081892301	8	3.94E-01	-0.553571926	8
-0.809629206	10	1.31E+02	0.45010352	10
-0.316653908	13	3.78E+00	-0.150497089	13
-0.255844225	27	7.99E+00	0.650218916	27
0.918271754	6	1.83E-03	0.383598984	6
0.180361899	9	5.61E-02	0.547415176	9
-0.285584448	3	8.65E-01	-0.511417327	3
0.001087004	1	3.72E-01	-0.019032352	1
0.039534234	4	2.57E-01	-0.484729294	4
-0.685685975	11	7.08E+01	-0.583873682	11
-0.45098049	60	5.61E+05	-0.072908616	60
-0.485531177	20	1.15E+02	0.319711804	20
-0.391644243	14	9.62E+00	-0.153532598	14
-0.283068645	11	2.15E+00	0.283528956	11
-1	6	1.14E+02	-0.40332955	6
-1	15	8.24E+05	-1	15
-2	7	1.38E+04	-0.031241927	7
-1	14	7.42E+04	-0.850355762	14
-0.059975875	4	3.86E-01	-0.095974661	4
0.023979579	13	1.26E-01	0.314008727	13
-0.183360281	3	6.08E-01	0.142617482	3
-0.135513648	32	8.71E-01	-0.0242501	32

-0.11493928	20	5.20E-01	-0.035478773	20
-0.385594432	7	2.53E+00	-0.209528571	7
-1	3	1.61E+01	-0.773578561	3
-2	4	2.08E+02	-0.490151386	4
-0.091688344	1	4.54E-01	-0.029233508	1
-0.310706699	2	8.25E-01	-0.108719501	2
-0.94245425	21	1.56E+05	-0.748325341	21
-0.607854805	26	4.90E+03	0.494530804	26
0.227214036	3	1.48E-01	0.091821548	3
-0.543092756	9	1.16E+01	-0.273466912	9
-0.887494541	25	5.21E+05	-0.137178211	25
-0.514604945	8	7.20E+00	-0.329189542	8
-0.302091677	23	1.17E+01	-0.673310741	23
-0.524958762	10	1.33E+01	-0.355183183	10
0.465721651	7	1.45E-02	1	7
-0.467429857	9	6.64E+00	-0.021877373	9
1	11	1.28E-06	0.351741213	11
0.734454842	5	8.59E-03	0.461749235	5
-0.104763185	5	4.62E-01	-0.031959007	5
-0.203319361	10	1.01E+00	-0.508273232	10
-0.017737815	2	3.65E-01	-0.014775237	2
0	3	3.24E-01	-0.028424397	3
-1	15	1.70E+04	-0.557303677	15
-0.260278207	9	1.44E+00	-0.440023915	9
-0.17576312	3	5.93E-01	0.008634703	3
0.179926981	12	3.19E-02	0.553419824	12
0.02948857	7	2.04E-01	0.683480071	7
0.239043595	8	4.57E-02	0.813761712	8
0.102805468	15	4.33E-02	0.435805636	15
0.943601188	5	3.18E-03	0.591984786	5
2	5	1.01E-04	2	5
1	12	4.64E-07	0.548017118	12
0.163832143	5	1.29E-01	1	5
-0.082859043	5	4.17E-01	0.565628299	5
-0.347620307	16	8.25E+00	0.154717446	16
1	22	1.59E-10	0.81890405	22
0.340616421	23	2.80E-04	-0.027255362	23
-0.571457838	22	7.42E+02	-0.473082429	22
-0.001426411	10	2.00E-01	-0.460557478	10
0.715282303	14	7.32E-05	-0.926830155	14
0.100620159	8	1.16E-01	-0.115844356	8
1	7	3.67E-04	0.399016102	7
0.705148388	15	4.79E-05	2	15
1	9	6.10E-05	1	9
0.635466693	4	2.24E-02	1	4
-0.930216331	7	6.85E+01	-1	7
1	28	9.63E-12	0.697479831	28

0.872469908	1	5.83E-02	0.464546221	1
-0.132287508	23	7.02E-01	0.640491213	23
-0.867522568	17	6.80E+03	-1	17
-0.900743601	91	5.17E+20	0.670161827	91
0.679907009	9	1.41E-03	-0.406610563	9
1	6	8.48E-04	-0.701175131	6
-0.693993422	16	5.19E+02	-0.816814124	16
-0.98596725	9	3.03E+02	-0.797795414	9
-0.949267355	10	4.02E+02	-0.683855728	10
0.421575216	13	2.36E-03	0.705609239	13
0.520290339	20	4.93E-05	2	20
0.158770869	6	1.11E-01	0.376403882	6
0.337348761	8	2.36E-02	-0.12504136	8
0.214221831	33	2.75E-04	0.301146877	33
-0.21110579	13	1.32E+00	-0.06697857	13
-0.504431827	11	1.47E+01	-0.580731338	11
-0.655636447	9	2.66E+01	-1	9
-0.633125441	5	5.69E+00	-0.718634686	5
-0.731076943	24	2.12E+04	-0.503051517	24
1	5	8.82E-04	0.251350618	5
0.846365026	3	1.76E-02	-0.30090285	3
-0.025789714	5	3.18E-01	0.563841596	5
-0.216075827	46	1.43E+01	0.227087499	46
-0.26188619	9	1.46E+00	0.376083785	9
0.101657852	12	6.63E-02	-1	12
0.489595126	86	4.57E-16	-0.299537079	86
0.052748596	13	9.42E-02	2	13
0.867936939	14	1.44E-05	-0.84812469	14
1	13	1.06E-06	-1	13
-0.569378847	20	3.92E+02	-1	20
-0.559830843	4	2.99E+00	-2	4
-0.492639164	15	3.63E+01	-0.01636546	15
-0.229375736	9	1.15E+00	0.608681469	9
-0.268647034	18	3.96E+00	2	18
-1	12	5.96E+03	0.684159085	12
-0.433940827	4	1.78E+00	-0.334607626	4
-0.741561735	8	3.31E+01	-2	8
-0.994462221	11	1.03E+03	-2	11
-0.46763941	10	8.42E+00	-0.598114134	10
-0.729561304	4	5.98E+00	-0.411338577	4
0.899184592	6	2.03E-03	0.224906275	6
-0.665853087	5	6.64E+00	-0.090667962	5
0.469636793	3	6.44E-02	-0.374624317	3
0.827041752	11	1.40E-04	0.110916411	11
-0.066229869	5	3.85E-01	0.405765311	5
-0.206772147	4	7.04E-01	0.563807227	4
-0.67770442	17	6.20E+02	0.104013271	17

0.792034768	3	2.13E-02	0.172046867	3
0.295667059	5	6.91E-02	-0.060811557	5
-0.714238691	4	5.62E+00	0.265858676	4
-1	17	2.25E+05	0.46223958	17
-0.149077347	14	7.27E-01	0.12090087	14
0.231150981	40	3.92E-05	-0.223792729	40
-0.536194704	29	3.02E+03	1	29
-1	8	2.90E+03	-0.281156542	8
-0.65653874	6	9.10E+00	-0.417859691	6
-2	10	3.57E+04	-1	10
0.088117176	8	1.26E-01	-0.42306127	8
-0.405776028	6	2.35E+00	-0.257978825	6
0.309070614	5	6.48E-02	-0.586337938	5
-0.823311319	5	1.40E+01	0.503361286	5
0.581707388	3	4.38E-02	0.047984351	3
0.657689103	3	3.38E-02	0.029974372	3
1	9	2.87E-05	0.867973521	9
0.213439293	11	2.88E-02	0.179266787	11
-0.388946406	12	6.47E+00	-0.728333725	12
-0.932131882	18	2.64E+04	-0.880829511	18
-0.465977714	42	1.51E+04	-0.783195973	42
-0.02734963	1	3.96E-01	0.001796826	1
-0.680769955	7	1.51E+01	-0.817151582	7
-2	11	9.43E+04	-2	11
-0.533249226	4	2.68E+00	-0.332792464	4
-0.882722575	13	1.08E+03	-0.494724739	13
-0.629259872	34	1.12E+05	-0.591340099	34
0.126958584	13	4.49E-02	-1	13
-0.212163194	25	3.02E+00	-0.031013873	25
-0.037904695	4	3.52E-01	0.16935816	4
0.40982775	18	4.87E-04	-0.562770469	18
-1	7	1.55E+03	-2	7
-0.355806806	2	9.36E-01	-0.111848249	2
-2	7	3.09E+04	-0.564544408	7
-1	4	1.84E+01	-0.916831693	4
-1	3	2.97E+01	-0.218666848	3
-0.448658976	13	1.41E+01	-0.993685281	13
-1	18	1.56E+07	-1	18
-2	8	3.26E+04	-1	8
-2	5	3.64E+02	-1	5
-0.172771486	5	6.39E-01	-0.096547071	5
-0.479508062	4	2.15E+00	-0.317264494	4
-0.134649951	3	5.15E-01	-0.201748412	3
0.082950332	2	2.76E-01	0	2
0.625314088	7	5.52E-03	-0.141558866	7
0.026797945	12	1.33E-01	-0.527186739	12
-2	5	4.24E+02	-0.934531508	5

-0.605773924	19	4.81E+02	-0.470989897	19
-0.083522757	3	4.32E-01	0.150799128	3
-0.813349233	9	8.50E+01	-0.345373333	9
-0.64769265	9	2.51E+01	0.25458822	9
-0.857836746	6	2.70E+01	0.032735144	6
-0.068542638	4	4.00E-01	-0.82183119	4
0.131688896	8	9.39E-02	0.114174418	8
0.429499932	3	7.40E-02	-0.598830948	3
-0.981548543	6	5.27E+01	-1	6
-1	10	1.32E+03	-2	10
-1	8	7.24E+02	-0.791224514	8
-0.771461389	6	1.69E+01	0.065981419	6
0.014997914	1	3.61E-01	-0.008468352	1
0.119875634	2	2.49E-01	-0.02852041	2
0.13823561	8	8.99E-02	-0.016834836	8
0.727683963	7	2.97E-03	-2	7
-0.663816995	6	9.47E+00	-2	6
-0.605983154	9	1.84E+01	-0.174127662	9
-0.177562592	5	6.53E-01	0.317432812	5
0.246471692	19	3.37E-03	1	19
-0.430381474	9	5.05E+00	-0.034911123	9
-0.516079489	2	1.46E+00	-0.527916579	2
-0.075754422	7	3.86E-01	-0.773278392	7
1	9	1.06E-04	-0.319654804	9
-0.182279158	9	8.12E-01	-0.201097125	9
0.043955361	9	1.53E-01	-0.285401444	9
0.132177212	6	1.28E-01	-0.171586508	6
-0.05412197	8	3.27E-01	0.28489636	8
0.393690577	10	8.37E-03	0.095508805	10
0.956881346	6	1.49E-03	-0.798417681	6
0.767391707	5	7.35E-03	-0.538901858	5
1	6	5.65E-04	-0.116463194	6
0.113102168	42	7.71E-04	0.052739319	42
-0.590226604	5	4.64E+00	-1	5
-1	8	6.00E+02	0.241832122	8
-0.145872784	2	5.22E-01	-0.032947556	2
-0.108455549	8	4.71E-01	-0.083329709	8
-0.091927486	21	3.68E-01	0.559661826	21
-0.456030748	10	7.67E+00	0.095329399	10
-0.531537386	9	1.07E+01	1	9
-1	3	2.01E+01	-0.367343822	3
0.229078446	5	9.47E-02	0.287145835	5
-0.63835771	6	8.25E+00	0.462186775	6
-0.870183242	3	6.45E+00	0.292488212	3
-0.224850557	42	1.39E+01	1	42
-0.035069516	1	4.02E-01	1	1
-0.270844337	10	1.74E+00	0.020740124	10

0.704301152	7	3.42E-03	0.022751896	7
-0.300843376	12	2.84E+00	-0.314057155	12
0.48305441	27	5.64E-06	-0.200993326	27
0.114824534	8	1.05E-01	-0.45981055	8
-0.303175447	3	9.19E-01	-0.261135049	3
-0.181375219	6	6.98E-01	-0.213420862	6
1	11	2.67E-06	0.033381083	11
0.17341479	5	1.23E-01	0.34883478	5
0.541851934	28	1.19E-06	1	28
-0.415335997	6	2.47E+00	-0.110736875	6
0.02016815	9	1.83E-01	0.503699046	9
0.226114685	5	9.61E-02	0.261696436	5
0.142217502	2	2.34E-01	0.020283585	2
0.088109441	22	2.08E-02	1	22
0.020413106	1	3.57E-01	0.584864801	1
0.236795179	20	3.08E-03	0.562897377	20
-2	9	1.23E+06	-2	9
-0.317164405	9	2.19E+00	-1	9
-0.190205696	1	5.59E-01	-0.113596335	1
-1	9	3.61E+02	-0.705966533	9
0.304265244	5	6.63E-02	0.043017722	5
-0.833137494	12	4.09E+02	0.405173411	12
-0.833511272	6	2.37E+01	2	6
-0.632115693	10	3.15E+01	0.334223813	10
-0.458885976	21	9.85E+01	-0.438558334	21
-0.447516716	9	5.73E+00	-0.268299442	9
-0.309608139	10	2.37E+00	-0.299269162	10
-0.999535215	3	1.01E+01	-0.468394947	3
-0.113972633	3	4.79E-01	-0.242446429	3
-0.736529167	6	1.40E+01	-0.552682441	6
1	17	8.96E-09	0.317631024	17
0.022628956	4	2.75E-01	-0.039733161	4
-0.35490105	5	1.52E+00	-0.394563118	5
0.884592196	2	2.97E-02	-0.52609248	2
-0.489456902	23	2.59E+02	0.181541185	23
-2	11	3.87E+08	0.207030514	11
-0.699095236	98	3.46E+16	0.022014605	98
0.841261444	14	1.91E-05	-0.539436879	14
-0.29362031	39	7.10E+01	-0.38493421	39
-0.410040831	5	1.97E+00	-0.219916902	5
-0.718524596	10	6.31E+01	-0.518196688	10
-0.023697509	7	2.82E-01	0.065897057	7
-0.387793504	5	1.77E+00	-0.040702793	5
-0.944873753	20	9.35E+04	-0.228984469	20
-1	3	3.50E+01	-0.318721363	3
-1	22	2.25E+06	-0.048810886	22
0.075166948	15	5.92E-02	-0.18788255	15

-0.168883902	5	6.27E-01	-1	5
0.297636408	4	8.92E-02	-0.532436612	4
0.007090293	29	4.45E-02	-0.751772662	29
0.576622823	17	8.34E-05	-0.96301055	17
-0.475355083	6	3.42E+00	-0.16178165	6
-0.839194264	17	4.76E+03	-0.614109501	17
0.408210695	3	7.96E-02	-0.349386775	3
1	24	8.25E-12	0.0820947	24
-0.672731193	18	8.44E+02	-0.556383341	18
0.612292576	6	9.57E-03	0.058248249	6
-0.174741015	8	7.35E-01	0.584821653	8
-0.614404754	9	1.96E+01	2	9
-1	10	2.18E+03	1	10
-0.475964881	11	1.15E+01	-0.292020783	11
0.570217806	5	1.87E-02	0.105757631	5
0.850133654	2	3.26E-02	0.000339452	2
2	12	3.89E-09	0.369372015	12
0.219997208	16	9.29E-03	0.036499092	16
-0.155297674	3	5.53E-01	-0.126307714	3
-0.242818558	11	1.51E+00	-0.483929832	11
0.057612745	5	2.14E-01	-0.148405531	5
-0.72162796	20	3.61E+03	-0.376168529	20
-0.199501502	16	1.40E+00	0.025782908	16
-1	6	2.97E+02	0.213538783	6
0.213270221	6	8.27E-02	-0.221386965	6
0.06182983	3	2.62E-01	0.08901741	3
0.161195785	2	2.22E-01	-0.088902813	2
-0.742204024	11	1.16E+02	0.111261741	11
0.007936529	3	3.15E-01	0.381652353	3
-0.593792208	21	7.69E+02	-0.157135536	21
-1	3	2.94E+01	0.552975557	3
-0.184342088	5	6.75E-01	0.774553771	5
-0.030713156	10	2.53E-01	0.344634655	10
-1	7	1.89E+02	0.877953611	7
-0.069306743	1	4.32E-01	0.149284464	1
0.400024282	23	1.05E-04	0.997797967	23
-2	8	1.18E+04	0.140428873	8
0.208722222	16	1.06E-02	0.14266827	16
-0.093852258	21	3.79E-01	1	21
-0.232239713	32	7.63E+00	0.470935448	32
0.11660393	4	1.87E-01	0.266576318	4
-0.788368676	51	9.63E+09	-0.665237687	51
-0.704587251	17	8.71E+02	-2	17
-0.209344156	4	7.11E-01	-0.875286631	4
-0.507484215	10	1.16E+01	-0.394019613	10
-0.004637298	1	3.77E-01	0	1
0.142809052	3	1.98E-01	-0.015408424	3

0.115806197	10	7.79E-02	-0.163585655	10
-0.193213782	4	6.66E-01	0.162156638	4
-0.391967426	14	9.66E+00	-0.158863287	14
-0.341702566	3	1.05E+00	0.999556371	3
-0.852525027	16	3.46E+03	-0.558442977	16
-0.459949052	78	5.14E+07	0.037708666	78
0.296202787	8	3.11E-02	-1	8
-0.684798703	24	9.57E+03	-0.990064179	24
-0.283455657	4	9.63E-01	-0.809749938	4
0.024758317	9	1.76E-01	-0.072112556	9
-0.45264223	20	7.15E+01	-0.23501818	20
-0.016773961	8	2.54E-01	-0.227243393	8
0.015000867	21	7.21E-02	-0.126787772	21
-0.163447087	10	7.33E-01	-0.407848559	10
0.331259661	6	4.37E-02	0.138284407	6
0.952624933	7	7.59E-04	0.185188572	7
0.081622021	11	9.05E-02	0.072557685	11
-0.171596503	11	8.16E-01	0.075343964	11
-0.447415919	11	8.94E+00	0.249983152	11
-0.711724117	11	8.87E+01	-0.842037087	11
-0.162201855	4	5.86E-01	-0.075707258	4
-0.069306743	1	4.32E-01	-0.029233508	1
-2	5	1.52E+04	-0.416179166	5
-0.465380654	10	8.27E+00	-0.251953642	10
0	3	3.24E-01	-0.212720463	3
-0.641756775	47	1.43E+07	-0.641233073	47
-0.892983297	12	7.16E+02	-0.994946687	12
-0.014310397	3	3.40E-01	-0.039083019	3
-0.156836984	18	8.98E-01	-0.237112485	18
-2	7	3.38E+05	-2	7
-0.936294853	14	3.18E+03	-1	14
-0.101376701	10	4.45E-01	-0.184673154	10
0	1	3.73E-01	0.003070219	1
-0.756146598	2	2.85E+00	-0.147026663	2
-0.485949134	23	2.44E+02	-0.117271244	23
-0.207356032	21	2.13E+00	-0.007572068	21
0.467920355	3	6.48E-02	-0.549514595	3
-0.250262287	25	5.96E+00	-2	25
-0.864849131	6	2.81E+01	-2	6
-1	4	6.12E+01	-0.348031865	4
-0.34827225	11	3.78E+00	-0.841621249	11
-0.591154669	33	3.30E+04	-0.337127947	33
-2	15	6.21E+06	-1	15
-3	5	7.43E+05	-3	5
-0.982681512	9	2.96E+02	-2	9
-0.533465028	6	4.68E+00	-0.30383418	6
-2	3	8.98E+01	-0.921187832	3

-0.277118845	5	1.05E+00	-0.537450274	5
-2	7	3.28E+03	-1	7
-0.345695567	8	2.32E+00	-0.946808045	8
0.323101368	27	1.21E-04	-0.163693017	27
-0.173870213	10	7.97E-01	-0.946945838	10
-0.998647795	17	3.56E+04	-1	17
-0.214625754	13	1.36E+00	0.893347363	13
0.765084572	10	4.25E-04	0.165269861	10
0.061125882	13	8.66E-02	-1	13
1	10	2.69E-05	-1	10
0.622124675	11	8.30E-04	-0.873269968	11
-0.897570129	16	5.92E+03	-1	16
-1	28	1.11E+08	-0.067158637	28
-0.148456389	36	1.29E+00	0.615778903	36
-1	11	2.75E+03	0.554730487	11
-1	4	2.21E+01	-0.860732614	4
-0.484792716	51	2.41E+05	-0.463720641	51
0.608148519	4	2.50E-02	-0.062602577	4
-0.18370161	4	6.40E-01	0.020034481	4
0.2430928	2	1.77E-01	0.134123321	2
-0.289843317	8	1.59E+00	-0.026311186	8
0.38688912	6	3.24E-02	-0.18715586	6
0.347517439	10	1.21E-02	-0.285898684	10
-0.575103256	3	2.34E+00	0.030612753	3
-0.713991631	5	8.35E+00	0.735955716	5
-0.953537123	20	1.06E+05	-0.050742907	20
0	1	3.73E-01	-0.048398525	1
-0.066716941	13	3.11E-01	0.458814489	13
0.599645803	25	1.53E-06	-0.091547247	25
-0.435641005	4	1.80E+00	0.269885819	4
-0.9099237	14	2.40E+03	-0.558633862	14
-0.326499227	4	1.15E+00	-0.689504375	4
0.422724742	22	1.02E-04	0.380429046	22
0.591455504	10	1.71E-03	0.82788549	10
0.206236116	20	4.81E-03	-0.361723471	20
-0.945311688	13	2.02E+03	-2	13
-0.264874468	3	8.05E-01	-0.371143986	3
-0.042423366	4	3.59E-01	-0.117214474	4
0.747830987	9	8.55E-04	-0.424889737	9
0.056663207	6	1.93E-01	-0.352158947	6
1	7	4.74E-04	-0.497576439	7
0.272462718	5	7.71E-02	-0.268591458	5
-0.383190109	4	1.45E+00	-0.646877002	4
0.01826318	9	1.85E-01	-0.489726294	9
0.27411987	21	1.39E-03	-0.453000724	21
-0.365277388	35	2.51E+02	2	35
-0.358433078	3	1.11E+00	0.606294921	3

1	20	5.09E-09	-0.154933978	20
-0.146981773	61	2.36E+00	-0.005424531	61
-1	4	8.75E+01	0.905917131	4
-0.583933662	37	9.74E+04	-0.101925833	37
-0.825824696	6	2.27E+01	-0.467742047	6
-0.618389109	12	5.51E+01	-0.974226193	12
0.102299554	8	1.14E-01	-0.145229575	8
-0.231785116	9	1.17E+00	0.33336303	9
-1	2	6.37E+00	-1	2
0.29280174	15	5.06E-03	-0.460049284	15
-0.298835422	11	2.46E+00	2	11
0.825202549	26	1.47E-08	2	26
-0.185917951	4	6.46E-01	2	4
-0.059086205	1	4.23E-01	0.203655813	1
-0.691095568	1	1.62E+00	0.780671908	1
-0.02061913	21	1.24E-01	-0.404137509	21
0.364252744	14	3.07E-03	0.386104832	14
-1	13	8.69E+04	-0.53973503	13
-0.095333248	17	4.00E-01	-1	17
2	11	1.97E-10	0.189353478	11
0.582061111	12	7.47E-04	-0.489569646	12
-0.227398751	9	1.13E+00	-0.434687354	9
-0.542462804	5	3.70E+00	0.539230455	5
-0.094763497	8	4.30E-01	-0.19731745	8
-0.520876633	11	1.69E+01	-1	11
2	8	7.74E-08	-1	8
-0.354909869	3	1.10E+00	-1	3
-0.550050466	5	3.83E+00	-0.06973903	5
0.2913987	10	1.90E-02	0.658363319	10
0.332310523	5	5.80E-02	0.912964141	5
-0.831412763	5	1.46E+01	-0.821201253	5
-0.959407465	3	8.77E+00	-1	3
-2	8	1.16E+04	-2	8
-0.179940296	11	8.77E-01	-0.074447985	11
-0.74299908	16	9.33E+02	-0.226486332	16
-0.559100422	7	7.23E+00	-0.636935189	7
-0.292343581	36	4.77E+01	-0.20728283	36
-0.275570909	6	1.16E+00	0.02221217	6
-0.179240877	5	6.59E-01	-0.2930291	5
0.325242108	3	1.06E-01	0.072025048	3
-1	6	2.92E+02	-0.098076712	6
-0.669004394	21	2.42E+03	-0.546460254	21
-2	5	6.34E+02	-2	5
-2	7	2.95E+04	-2	7
1	33	1.36E-13	2	33
0.029824668	13	1.18E-01	0.300815574	13
0.366022157	8	1.95E-02	-0.073752061	8

0.582322632	16	1.22E-04	0.749921754	16
-0.354325248	13	5.50E+00	0.427592789	13
-2	21	2.26E+09	-0.875562297	21
-0.549038274	23	6.94E+02	-2	23
-1	7	2.75E+02	-2	7
-0.187178142	11	9.34E-01	-0.5040092	11
-0.248415619	1	6.33E-01	-0.125894024	1
-0.096185923	2	4.54E-01	2	2
-0.399584634	35	5.80E+02	2	35
0.010156279	8	2.12E-01	0.593844925	8
-0.00114795	16	1.31E-01	0.190404696	16
-0.242761683	27	6.22E+00	0.051945584	27
-0.764866092	17	1.86E+03	0.533931992	17
-0.502371187	8	6.64E+00	-1	8
-1	11	1.15E+04	-2	11
-0.775611318	24	4.56E+04	-0.887231809	24
-0.515142436	12	2.10E+01	-0.301417873	12
-1	11	7.39E+04	-1	11
0.1060423	13	5.53E-02	-0.326704988	13
0.064209024	3	2.60E-01	-0.225805792	3
-0.688664528	13	1.55E+02	-0.713794721	13
0.300812438	19	1.58E-03	0.638172586	19
-0.778919778	15	9.23E+02	-1	15
-0.428135167	26	1.76E+02	-0.409670221	26
-0.008631318	8	2.41E-01	-0.082305681	8
0.619649058	22	4.46E-06	0.601017358	22
-0.298841946	39	8.17E+01	1	39
0.274116975	26	3.98E-04	-0.828137189	26
0.812151553	8	9.73E-04	-2	8
0.271811492	2	1.63E-01	-0.939079793	2
0.928386383	19	2.54E-07	-0.672737476	19
-1	16	3.03E+06	-2	16
0.427262875	18	3.86E-04	-0.3846749	18
0.118361903	23	1.11E-02	0.084881275	23
0.40277856	14	2.04E-03	0.57229423	14
0.152257408	7	9.70E-02	-0.446940909	7
0.716313742	12	2.13E-04	-0.693016714	12
1	3	4.40E-03	-0.481757295	3
-0.275210836	1	6.70E-01	-0.24541344	1
-0.805598902	5	1.29E+01	-0.829604	5
-1	3	1.15E+01	-0.644691087	3
-0.829240379	14	1.02E+03	-1	14
-0.341302014	12	4.15E+00	-0.478786396	12
0.477902221	25	1.34E-05	0.597695206	25
0.341737298	14	3.91E-03	0.259017823	14
2	4	2.18E-04	1	4
1	3	8.88E-03	-0.415819516	3

-0.115092886	14	5.06E-01	-0.304760494	14
-0.009246175	2	3.57E-01	-0.164291836	2
-2	1	1.12E+01	-1	1
-0.809682574	12	3.29E+02	-1	12
-0.075143382	23	2.73E-01	0.332294495	23
-0.715703697	28	8.01E+04	-0.741129347	28
-0.917291818	4	1.29E+01	-1	4
-0.633859772	15	1.79E+02	-1	15
-0.371241211	8	2.75E+00	-0.410822176	8
0.796749805	11	1.82E-04	0.032341851	11
-0.331120465	6	1.57E+00	0.553699011	6
-0.460417659	48	5.15E+04	-0.556569879	48
-1	4	7.26E+01	-1	4
-0.260468638	6	1.07E+00	-0.355830737	6
0.045739515	3	2.77E-01	-0.058798429	3
0.326270461	4	7.94E-02	-0.478376609	4
-0.405088643	6	2.34E+00	-0.512651759	6
0	5	2.81E-01	-0.183252971	5
-0.67956197	5	7.09E+00	-0.682908405	5
-0.416696958	6	2.49E+00	-0.383356642	6
-2	6	3.71E+03	-1	6
-0.578544053	5	4.39E+00	-0.818995845	5
-0.889991179	13	1.16E+03	-0.632631499	13
-0.289235585	11	2.26E+00	0.197644007	11
-1	5	1.03E+02	1	5
-0.364738502	9	3.12E+00	-0.355759014	9
-0.026821393	3	3.55E-01	0.041246173	3
-1	13	1.27E+04	-0.809719497	13
-0.24217262	2	6.82E-01	2	2
-0.558099497	20	3.33E+02	1	20
-0.316207607	23	1.47E+01	1	23
-1	21	1.65E+08	0.384822451	21
-0.013344578	13	1.82E-01	0.444487012	13
1	7	5.19E-05	0.354810363	7
0.81852342	11	1.51E-04	-0.08237965	11
-0.041954382	6	3.29E-01	-0.545780144	6
-0.033057818	2	3.81E-01	0.263048535	2
-0.243306444	3	7.48E-01	-0.224546172	3
-0.406207402	53	2.30E+04	-0.301364593	53
-0.02049425	12	2.07E-01	-0.031938009	12
-0.630210914	28	1.47E+04	-0.034767853	28
2	6	8.65E-07	2	6
0.672530881	10	8.93E-04	-0.211478302	10
0.180707502	6	9.86E-02	0.291332765	6
0.481389572	6	1.94E-02	0.137923442	6
0.94681025	8	3.94E-04	0.935959417	8
0.225806043	32	2.62E-04	0.367947008	32

-0.831895639	6	2.35E+01	0.253791413	6
0.058595298	24	2.67E-02	-0.718983092	24
2	12	6.55E-11	0.290267581	12
-0.10955125	15	4.78E-01	0.922451357	15
-1	8	2.26E+03	-0.679425717	8
-1	8	3.21E+02	-1	8
0.079378905	17	4.42E-02	-0.307728353	17
0.078561794	22	2.42E-02	-0.487445046	22
0.036213717	8	1.78E-01	0.020862594	8
-0.548825813	5	3.81E+00	-0.339563406	5
-0.705102002	7	1.75E+01	0.561298842	7
-0.351767803	18	1.19E+01	-0.241275284	18
0.439881505	32	2.14E-06	0.00649908	32
2	24	4.69E-17	0.165504889	24
0.852246604	4	9.22E-03	0.424563701	4
-0.150148519	15	7.56E-01	-0.729266674	15
-0.043921658	11	2.69E-01	0.058921052	11
0.770279227	7	2.29E-03	0.106419464	7
0.07733777	23	2.19E-02	-0.132687289	23
0.037972731	9	1.60E-01	-0.181845492	9
0.177640282	7	8.32E-02	-0.071503299	7
-0.3080084	7	1.58E+00	-0.229905486	7
-0.8560999	9	1.17E+02	-1	9
-1	15	4.56E+04	-0.538245634	15
-0.329770175	9	2.41E+00	-0.6650906	9
-0.688454233	10	4.95E+01	-0.704807444	10
-0.797188413	22	2.68E+04	-0.169252367	22
0.355089624	10	1.14E-02	0.54982205	10
0.490742404	6	1.85E-02	-0.361199212	6
0.342857683	15	2.87E-03	-0.868551762	15
-0.588260366	4	3.35E+00	-0.323907412	4
-0.134503316	26	7.67E-01	-0.623505255	26
-0.518800299	9	9.70E+00	-0.902556209	9
0.149993477	9	7.01E-02	-0.438234283	9
-0.118273958	4	4.90E-01	-0.091795759	4
-0.797211391	5	1.24E+01	-0.046099571	5
-0.398157506	14	1.03E+01	-0.387125156	14
-0.975024744	6	5.09E+01	-0.824531308	6
-1	11	2.95E+04	-0.388785738	11
-0.911374416	12	8.50E+02	-0.854263733	12
-0.301940115	19	6.99E+00	-0.044906606	19
-0.589317236	17	2.03E+02	-0.035004418	17
-2	6	2.86E+04	-2	6
0.026923645	1	3.52E-01	-0.045221983	1
-0.773508239	12	2.35E+02	-0.558883454	12
-2	7	5.76E+03	-1	7
-0.26298173	6	1.09E+00	-0.513399457	6

0.447499393	36	4.21E-07	0.446312634	36
-0.213801927	7	8.92E-01	-0.814857387	7
-2	12	1.55E+08	-2	12
-1	4	2.72E+01	-0.564379016	4
0.947353296	11	4.93E-05	-0.891941827	11
-0.151394342	26	1.05E+00	-0.50158393	26
0	2	3.48E-01	-0.007328551	2
-0.24663822	11	1.56E+00	0.678437826	11
-0.2553931	43	3.72E+01	1	43
-0.067368244	3	4.08E-01	-0.038075741	3
-0.271149668	85	5.29E+03	0.525668128	85
0.194397407	22	3.84E-03	0.136050856	22
0.131118671	6	1.29E-01	0.377882808	6
-2	9	1.98E+05	-1	9
-0.651401036	19	9.08E+02	-0.757644388	19
-0.277211327	6	1.17E+00	-0.334571223	6
-0.260687024	7	1.18E+00	-0.52912393	7
-0.228758931	4	7.70E-01	-0.255967711	4
0.228209807	10	3.16E-02	-0.043415576	10
-0.800997837	12	3.03E+02	-0.063903052	12
-2	7	2.57E+03	-2	7
-0.0141298	12	1.95E-01	-0.053318735	12
0.833281501	2	3.42E-02	-0.447958151	2
-2	5	5.57E+03	-2	5
0.048048323	3	2.75E-01	-0.760432878	3
-0.841901387	196	1.22E+41	-0.915139493	196
-1	11	3.47E+03	-0.687793329	11
-0.204691373	8	8.99E-01	-0.328632411	8
-0.158540462	40	1.90E+00	-0.885253721	40
0.503209843	2	8.57E-02	-3	2
0.685169172	6	6.46E-03	-0.362642993	6
-0.549855396	73	1.37E+09	-0.293476794	73
-0.432542634	3	1.43E+00	0.145390073	3
1	5	1.74E-03	-0.400875125	5
0.289408867	13	8.85E-03	-1	13
-0.426954409	5	2.14E+00	-0.469962531	5
0.541200055	7	9.19E-03	-0.663569692	7
-0.462818074	18	5.21E+01	-0.493710338	18
-0.08107805	2	4.36E-01	-0.814749142	2
-1	5	1.56E+02	-1	5
0.370700006	7	2.58E-02	-0.575173588	7
-0.289107878	6	1.25E+00	-0.302169948	6
-0.034785408	2	3.83E-01	-0.37902211	2
1	13	5.45E-07	0.489852329	13
-0.119634134	15	5.36E-01	0.041936389	15
-0.649873892	4	4.32E+00	-0.038919569	4
0.442721742	10	5.65E-03	-0.177549645	10

-0.005579261	2	3.53E-01	0.091938339	2
-1	5	3.75E+01	-0.394409759	5
-1	5	1.86E+02	-1	5
-0.366372498	7	2.25E+00	-0.091934477	7
-0.206935921	21	2.12E+00	-0.169703413	21
1	15	1.03E-08	0.870561936	15
1	17	1.21E-07	0.534796529	17
0.766872077	11	2.36E-04	0.66184153	11
-0.125888283	11	5.48E-01	0.316133166	11
-0.631618162	8	1.58E+01	-0.63663403	8
-0.160747923	9	6.93E-01	0.072673346	9
0.29317012	48	8.59E-07	0.988217978	48
0.316924599	18	1.67E-03	0.426417616	18
0.401491455	9	1.10E-02	-0.242694702	9
-0.390899685	21	3.50E+01	-0.573658565	21
2	4	7.59E-05	0.905866635	4
2	10	6.74E-09	2	10
0.515453467	1	1.25E-01	0.271802752	1
-0.900081026	18	1.72E+04	-0.099673764	18
-0.185814896	10	8.77E-01	3	10
1	3	5.34E-03	2	3
-0.099381721	59	3.32E-01	2	59
-0.79809883	13	4.64E+02	0.626790095	13
-0.211949402	22	2.45E+00	0.343329421	22
-0.110082836	3	4.73E-01	-0.216618688	3
-0.581192565	10	2.09E+01	-0.385994071	10
-0.256979346	30	1.09E+01	0.428971178	30
-0.741796518	30	3.08E+05	-0.016351481	30
-0.83631211	9	1.01E+02	-1	9
-0.901794304	7	5.76E+01	-0.464512103	7
-1	13	2.89E+04	-2	13
-1	2	9.14E+00	-2	2
0.079599311	3	2.46E-01	0.004901703	3
0.513206044	5	2.46E-02	0.429514474	5
0	2	3.48E-01	-0.251303693	2
0	1	3.73E-01	-0.019554675	1
-0.240233463	9	1.24E+00	-0.075345973	9
0.187660774	5	1.15E-01	0.290924706	5
0.009787014	11	1.69E-01	-0.071552237	11
-0.046289954	6	3.36E-01	-0.827365715	6
0.486334638	7	1.28E-02	-0.932280337	7
0.378931353	7	2.46E-02	-0.334479875	7
0.963569588	17	6.33E-07	0.21056507	17
-0.267930464	5	1.00E+00	-0.189363239	5
-0.886790906	11	4.06E+02	-1	11
-0.931979545	8	1.19E+02	-0.547223333	8
-0.595921353	7	9.03E+00	-0.737569011	7

-0.26812961	17	3.54E+00	-0.939410259	17
-0.544294532	9	1.17E+01	-0.998505865	9
-1	4	3.23E+01	-0.3706632	4
-0.116956832	12	5.11E-01	-0.644700225	12
-0.592417093	6	6.44E+00	-0.401120127	6
-0.368467209	5	1.62E+00	-0.22201718	5
-0.632720395	11	4.47E+01	-0.188524801	11
-0.222268225	12	1.36E+00	-0.300814901	12
-0.574129891	4	3.17E+00	-0.200655299	4
-0.637110456	14	1.31E+02	0.235228638	14
-0.630372646	9	2.21E+01	0.593447821	9
0.011508125	6	2.46E-01	-0.487338172	6
1	15	9.53E-07	-0.420490193	15
0.118768651	26	7.05E-03	0.726627588	26
0.277597647	12	1.28E-02	0.425079466	12
-0.161609168	12	7.75E-01	-0.125600961	12
-0.034543423	11	2.48E-01	-0.672737904	11
-0.178865985	11	8.69E-01	-0.468770677	11
2	11	7.23E-09	1	11
0.065355825	4	2.31E-01	0.024438952	4
0.728054249	3	2.65E-02	0.119409538	3
1	3	8.96E-03	0.328975719	3
1	3	1.04E-02	0.316456813	3
0.39437506	6	3.11E-02	0.641926062	6
0.201652619	3	1.62E-01	0.251519521	3
0.048883353	15	7.97E-02	0.262046742	15
-0.098419942	3	4.54E-01	0.401139484	3
0.879281179	7	1.18E-03	1	7
2	3	8.16E-05	0.842999591	3
3	2	8.59E-05	0.864407071	2
-0.143750349	10	6.26E-01	-0.499648918	10
-0.574714018	5	4.31E+00	-0.723634858	5
-0.162309166	142	7.97E+01	-0.029052028	142
-0.018414303	3	3.45E-01	-0.164125411	3
-0.584618897	14	7.51E+01	-0.443527875	14
2	6	2.89E-05	2	6
0.695437785	26	1.63E-07	0.975816991	26
-0.50654998	11	1.49E+01	-0.679692889	11
-0.20540518	6	7.95E-01	0.266124317	6
-0.068138437	11	3.32E-01	-0.128054487	11
-0.597451081	15	1.19E+02	0.053075828	15
0.194511983	9	5.05E-02	0.184579059	9
-0.227586333	11	1.33E+00	-0.484692046	11
-0.313717764	4	1.09E+00	-0.319817368	4
0.324040954	7	3.43E-02	-0.040488561	7
-1	7	5.42E+02	-0.962950674	7
-0.6281561	8	1.54E+01	-0.458413783	8

-1	13	1.00E+04	-0.07388243	13
-0.840687653	26	3.65E+05	0.250412312	26
-0.734600136	15	5.59E+02	-0.305328193	15
-0.403853745	5	1.91E+00	-0.344512883	5
0.539855214	10	2.59E-03	-0.004654101	10
0.459537308	8	1.04E-02	0.316985591	8
0.402901516	7	2.12E-02	1	7
0.192421466	9	5.13E-02	2	9
0.082188457	6	1.68E-01	0.648392541	6
-0.104840777	68	4.06E-01	0.139894725	68
-0.207630815	5	7.54E-01	0.814281505	5
-3	1	7.71E+01	0.216872777	1
0.841855742	6	2.77E-03	-0.455389415	6
-0.094645243	8	4.29E-01	-0.794800628	8
-0.310545466	13	3.55E+00	-1	13
1	9	9.20E-06	-0.966464438	9
-0.120535458	6	5.02E-01	-0.281608558	6
-0.770970191	29	3.70E+05	-0.210617046	29
0.454497801	22	6.16E-05	0.822006756	22
2	15	5.86E-09	2	15
-0.507464778	13	2.54E+01	0.564779804	13
0.511024953	6	1.65E-02	0.144086436	6
0.599298038	6	1.03E-02	0.34500529	6
0.020963517	5	2.55E-01	0.297689484	5
-0.16481656	18	9.98E-01	0.174176773	18
-0.519656825	9	9.76E+00	0.034162945	9
-1	8	3.24E+03	-0.56974346	8
0.385949371	8	1.70E-02	0.530076333	8
0.282389949	8	3.41E-02	-0.311942186	8
-0.013097395	8	2.48E-01	-0.619004912	8
-0.566545178	3	2.27E+00	-1	3
-0.418382144	2	1.11E+00	-0.452480631	2
-1	5	3.94E+01	-0.519271473	5
-0.637622986	17	3.74E+02	-0.079433332	17
-0.098385758	5	4.49E-01	0.329535966	5
0.627886616	11	7.89E-04	-0.027472315	11
-0.491726438	4	2.26E+00	-0.414025198	4
0.67839732	6	6.70E-03	0.497437163	6
-0.164628872	21	1.11E+00	0.568463653	21
-0.965155808	14	4.32E+03	0.488096832	14
0.906774248	8	5.15E-04	-1	8
0.073851585	7	1.56E-01	-0.571548837	7
1	1	4.18E-02	-1	1
0.046750511	1	3.38E-01	-0.41095324	1
-0.378291779	4	1.42E+00	-0.332293907	4
0	1	3.73E-01	-0.029233508	1
0.365819459	3	9.21E-02	-0.744989223	3

0.386848766	8	1.69E-02	-0.039543545	8
0.035207167	5	2.38E-01	0.128066749	5
-1	46	1.93E+15	0.130698167	46
1	13	2.66E-06	0.200776562	13
0.162439345	4	1.55E-01	0.249195524	4
-0.690019047	14	2.31E+02	-0.397839084	14
-0.16211777	28	1.37E+00	-1	28
0.342643977	16	2.14E-03	0.100227476	16
-0.641770878	14	1.38E+02	-0.373293541	14
-1	1	4.82E+00	0.018662416	1
-0.703337292	13	1.80E+02	-0.280956193	13
-0.372137483	29	1.05E+02	2	29
-0.113751798	6	4.84E-01	1	6
-0.006498426	4	3.10E-01	0.020058287	4
0	3	3.24E-01	0	3
0.280131634	6	5.76E-02	-0.300858517	6
-0.308370626	5	1.22E+00	-0.105473213	5
0.664747324	7	4.35E-03	0.744637958	7
0.063360211	8	1.49E-01	1	8
-0.485424687	20	1.15E+02	2	20
-1	7	1.38E+03	0.569905637	7
-0.39244278	24	6.26E+01	-0.222721537	24
-0.695843042	6	1.13E+01	-0.742188714	6
-2	18	3.00E+08	-1	18
-0.653634669	8	1.83E+01	-0.245566366	8
-0.028906347	3	3.58E-01	-0.287864513	3
-0.386301673	2	1.02E+00	-0.059388572	2
-2	4	2.08E+02	-0.694671006	4
-0.642562935	82	3.10E+12	-0.374345053	82
2	10	5.65E-07	-0.002709256	10
-2	7	4.44E+04	-0.258198675	7
-0.207871508	20	2.01E+00	1	20
-0.309674284	2	8.23E-01	0.341569473	2
-0.880903373	38	3.36E+08	-0.897621006	38
-0.896637725	18	1.65E+04	-0.932316184	18
0.224043237	50	5.41E-06	0.809093812	50
-2	22	7.38E+09	-0.956936159	22
-3	3	2.76E+04	-1	3
0.420559069	61	1.43E-10	1	61
-0.146214695	1	5.09E-01	2	1
-0.495572116	5	2.96E+00	0.206292232	5
0.264592422	3	1.30E-01	-0.395237892	3
-0.748344674	51	2.38E+09	-0.704195276	51
0.55007437	15	2.76E-04	-0.931637599	15
0.581305769	3	4.39E-02	-0.201304316	3
0.264490212	12	1.45E-02	-0.256542084	12
0.322436166	5	6.08E-02	0.027559779	5

0.22041003	6	7.96E-02	0.572540262	6
0.664488307	4	1.99E-02	0.141776565	4
2	7	2.25E-05	0.454288085	7
0.566688398	2	7.18E-02	0.747715065	2
-0.699763965	9	3.68E+01	-1	9
-0.544512451	16	8.69E+01	0.149140543	16
-0.261181389	5	9.72E-01	-0.133338595	5
-0.778814251	10	1.02E+02	-0.079994221	10
0.852801111	25	1.66E-08	0.48963664	25
-0.357379366	7	2.13E+00	0.00997598	7
0	3	3.24E-01	0.197742556	3
-0.383885577	4	1.45E+00	0.957208279	4
0.926051014	3	1.34E-02	0.300727837	3
0.269961143	4	9.99E-02	0.675811686	4
-1	5	5.53E+01	0.126329603	5
-0.350528633	3	1.08E+00	0.00553659	3
0.147437114	3	1.95E-01	0.006606506	3
2	2	4.43E-03	-0.561987665	2
0.14586887	2	2.32E-01	-0.240475835	2
-0.040315341	9	2.85E-01	-0.706957107	9
-0.667006635	8	2.00E+01	-0.314215351	8
-0.878225997	10	2.27E+02	-0.17956668	10
-0.247822681	5	9.12E-01	-0.371187475	5
-0.055895647	14	2.70E-01	-0.200189889	14
0.975861259	6	1.34E-03	0.414963299	6
0.571402124	27	1.04E-06	0.647804545	27
-0.362677558	6	1.86E+00	-0.012334506	6
0.018010181	2	3.31E-01	-0.4306133	2
-0.222948834	7	9.42E-01	-1	7
-0.687405124	11	7.18E+01	-0.548521108	11
-1	19	5.85E+05	-2	19
-1	3	4.14E+01	-0.717105483	3
-0.80446715	4	8.13E+00	-0.906461795	4
-0.32783889	4	1.15E+00	-0.085700704	4
-0.149245428	20	8.57E-01	-0.230181453	20
0.1301211	21	1.25E-02	-0.140249206	21
-0.11016298	5	4.74E-01	-0.31423616	5
0.633992752	2	5.96E-02	-0.569129256	2
-0.064033786	8	3.50E-01	-0.688071743	8
-0.66345791	20	1.55E+03	-0.233422948	20
0.514197423	16	2.76E-04	-0.182765252	16
0.138635098	3	2.01E-01	0.035566345	3
0	1	3.73E-01	0	1
0.047675169	15	8.08E-02	-0.414088202	15
0.914889785	5	3.65E-03	-0.293633866	5
0.08658421	5	1.86E-01	-1	5
-0.536055132	10	1.46E+01	0.530101155	10

-0.249274994	13	1.93E+00	-0.875994756	13
-1	4	2.61E+01	-1	4
-0.916541738	6	3.71E+01	0.07764573	6
-2	6	3.21E+03	-0.757728442	6
1	8	2.47E-04	0.261634298	8
0.24451914	10	2.77E-02	-0.182414559	10
-0.760184211	4	6.78E+00	-0.258851694	4
0.533619358	3	5.17E-02	0.071897485	3
0.674385861	11	5.27E-04	-0.128758246	11
0.673408332	20	5.29E-06	-0.378917955	20
2	6	6.13E-05	0.256094852	6
0.131322782	26	5.59E-03	2	26
1	14	3.00E-06	-0.595659721	14
-0.242480712	10	1.38E+00	-0.140706543	10
-0.413481898	7	2.99E+00	-1	7
-0.463588215	9	6.46E+00	-0.576310875	9
0.741033697	15	3.19E-05	1	15
0.145853381	8	8.54E-02	0.464654431	8
-0.589804885	19	3.85E+02	-0.206441091	19
-1	10	1.07E+04	-1	10
-0.466254984	9	6.58E+00	-0.126188227	9
-1	6	1.24E+02	0.007451691	6
-2	6	9.95E+02	-1	6
-0.434678251	8	4.21E+00	-0.10856839	8
-1	12	5.93E+03	-1	12
-0.241208567	2	6.80E-01	-0.47241684	2
0.53067353	3	5.22E-02	0.299899603	3
1	6	5.63E-04	0.464923086	6
0.040947042	9	1.57E-01	0.363835897	9
0.910434029	6	1.91E-03	-0.562992043	6
2	10	5.72E-08	-0.898175027	10
0.94511464	10	1.00E-04	-0.338427407	10
-0.339237006	37	1.80E+02	-1	37
-0.727714578	10	6.79E+01	-0.401032948	10
-0.116110764	7	4.93E-01	0.071853796	7
0.018617471	8	2.01E-01	0.369761969	8
0.357358361	7	2.80E-02	-0.050841205	7
0.139902567	3	2.00E-01	-0.090988962	3
0	3	3.24E-01	-0.005954509	3
0	3	3.24E-01	0	3
0.590831956	6	1.08E-02	0.088801086	6
0.483553966	18	1.83E-04	0.592177562	18
0.478815579	6	1.97E-02	0.198974916	6
-0.207168779	42	8.33E+00	0.654413214	42
-0.109485565	2	4.72E-01	-0.197947666	2
-0.14581979	4	5.48E-01	-0.023522589	4
-0.071584483	14	3.19E-01	-0.519674082	14

-0.38968665	2	1.03E+00	-0.226250484	2
0.357002862	25	1.16E-04	-0.156691463	25
0	1	3.73E-01	0	1
-0.294911967	12	2.69E+00	0.486378183	12
-0.119885007	4	4.93E-01	-0.470327302	4
-0.144528389	6	5.72E-01	0.084926537	6
-0.079566595	9	3.81E-01	0.206112533	9
1	10	3.14E-05	1	10
0.576965444	45	2.88E-10	0.351457291	45
0	2	3.48E-01	0.011508907	2
-0.270261262	5	1.01E+00	-0.388122584	5
-0.910475337	43	1.02E+10	-1	43
-2	4	3.17E+02	-0.866224721	4
-2	10	8.24E+05	-0.684185166	10
-0.740553005	23	1.65E+04	0.189456555	23
-0.979833851	10	5.14E+02	-1	10
-2	23	1.28E+10	-1	23
-0.435816138	12	1.00E+01	-0.494034931	12
-0.321196199	4	1.12E+00	-0.239663096	4
-2	13	2.13E+07	-2	13
-0.689945492	5	7.45E+00	0.595675173	5
-2	8	3.14E+04	-0.027652417	8
-0.786452428	14	6.44E+02	0.460286889	14
-2	14	2.49E+07	-0.11581129	14
-0.531144938	4	2.65E+00	-0.386732009	4
-0.419369963	6	2.53E+00	-0.832991664	6
-0.050720037	5	3.58E-01	-0.942830862	5
-0.431779323	8	4.13E+00	-2	8
-0.683195653	8	2.23E+01	-0.845649568	8
-0.232185911	4	7.81E-01	-0.235401149	4
-0.185612192	8	7.91E-01	0.081172511	8
-0.312520962	5	1.24E+00	0.454991027	5
-0.525142884	5	3.40E+00	0.370700565	5
-0.067151546	3	4.08E-01	-0.078653363	3
-0.267496608	2	7.32E-01	0.361260273	2
0.642172038	13	2.61E-04	1	13
-0.065323378	11	3.24E-01	0.6746955	11
-1	31	2.71E+09	-0.600139318	31
-0.309624809	6	1.40E+00	0.041389604	6
-0.688152047	7	1.58E+01	-0.025105812	7
-0.328255336	3	1.00E+00	0.725179091	3
-0.749559594	6	1.50E+01	0.043149156	6
-0.080013262	4	4.19E-01	-0.484362197	4
0.85814668	5	4.78E-03	-0.194579038	5
-0.397793645	9	3.98E+00	-0.659225461	9
-0.513486877	68	6.02E+07	0.035020589	68
-0.226799809	63	7.55E+01	0.044989285	63

-0.383999529	4	1.45E+00	0.362563781	4
-1	5	3.95E+01	0.476940573	5
0.043902214	9	1.53E-01	0.217394206	9
-0.612507961	12	5.22E+01	-0.689237585	12
-0.368180153	17	1.25E+01	0.012033484	17
-0.077925489	2	4.32E-01	0.056042047	2
-0.709792748	3	3.72E+00	1	3
-0.175341086	4	6.19E-01	-0.467615767	4
0	1	3.73E-01	-0.01663199	1
1	3	5.75E-03	-0.310090876	3
0.080245656	10	1.04E-01	-0.382211271	10
-0.317911198	2	8.42E-01	-0.319390589	2
0.297543385	10	1.81E-02	0.256368199	10
0.143747354	3	1.98E-01	-0.12860045	3
0	3	3.24E-01	0	3
0	4	3.02E-01	0	4
0	4	3.02E-01	0	4
0	1	3.73E-01	0	1
-0.226762131	2	6.53E-01	-0.101540791	2
0	3	3.24E-01	0	3
0	4	3.02E-01	0	4
0	4	3.02E-01	0	4
-0.024052567	1	3.93E-01	-0.056838136	1
0.45994684	14	1.11E-03	0.474520982	14
-0.50530636	7	5.22E+00	-0.11493464	7
0.337017937	13	5.50E-03	0.25170911	13
-0.315746038	27	2.52E+01	-0.548868627	27
0.320035135	12	8.63E-03	-0.745566576	12
0.21580165	13	1.85E-02	-0.166901107	13
0.369792356	28	3.61E-05	0.053747327	28
-0.192386579	29	2.64E+00	-0.621907455	29
-0.088464312	4	4.33E-01	0.043429148	4
-0.327617002	14	4.87E+00	0.488743761	14
-0.060823306	1	4.25E-01	-0.009133934	1
0.94472896	3	1.26E-02	-0.027683902	3
1	11	6.23E-06	-0.163929044	11
0.51836968	5	2.40E-02	-0.165400427	5
-0.41625896	8	3.72E+00	-0.189838337	8
-0.285808715	12	2.47E+00	-0.281351513	12
-0.746926513	10	7.92E+01	-0.268567773	10
-0.540973359	22	4.57E+02	0.069960052	22
-0.04787699	4	3.67E-01	0.430435079	4
-1	14	5.14E+04	-0.30350458	14
-0.524823303	1	1.14E+00	-0.383633871	1
-0.42304023	9	4.79E+00	-0.131347212	9
1	7	3.57E-05	-0.001818579	7
-0.031714964	6	3.11E-01	-0.167370015	6

1	18	7.62E-10	0.858397216	18
-0.352596465	15	7.45E+00	0.349135916	15
-0.446899489	3	1.51E+00	-1	3
0.230396805	29	4.59E-04	2	29
-0.01181341	3	3.37E-01	0.063046183	3
-1	10	1.63E+04	-0.523146614	10
-0.633781642	6	8.05E+00	-0.148805291	6
-0.080540946	1	4.43E-01	-0.028429414	1
-1	56	1.21E+18	0.087502133	56
0.20039898	4	1.33E-01	0.613878049	4
-2	16	4.60E+07	-2	16
-1	5	1.56E+02	-0.642403496	5
0.159287762	19	1.14E-02	0.906837827	19
-0.397115361	4	1.53E+00	0.393773585	4
0.954767386	4	6.06E-03	-0.597949678	4
-2	5	2.88E+04	-2	5
-0.67775325	5	7.03E+00	-0.507025658	5
-1	12	1.84E+04	-0.868525735	12
-2	6	1.06E+04	-1	6
-0.728576173	15	5.23E+02	-0.460594445	15
0.364969496	1	1.72E-01	0.004284881	1
2	2	1.15E-03	-0.548834833	2
-0.063356428	9	3.38E-01	-0.224009748	9
-2	13	2.50E+07	-2	13
-1	4	2.70E+01	-0.210068744	4
0.36765078	13	4.05E-03	-0.102733312	13
-0.063496274	22	2.31E-01	-0.112310112	22
-0.477799951	8	5.63E+00	-1	8
-0.52174624	29	2.25E+03	-0.439185058	29
-0.380622724	10	4.19E+00	-0.271503348	10
-0.463901272	6	3.21E+00	-0.383973023	6
-1	12	5.76E+03	0.040458789	12
-0.044099074	3	3.77E-01	0.187907731	3
0.394689281	27	3.07E-05	2	27
3	2	5.56E-05	3	2
0.891635089	8	5.71E-04	0.218838505	8
0.991138865	6	1.24E-03	0.86174535	6
4	10	4.62E-16	2	10
-0.076930234	14	3.37E-01	-0.439197535	14
0.081312187	3	2.45E-01	-0.049446369	3
-0.526278884	12	2.33E+01	-0.119824	12
0.437412953	27	1.35E-05	1	27
0.656491005	4	2.05E-02	-0.602315665	4
0.174948939	8	7.02E-02	-0.605037804	8
-0.013474791	20	1.18E-01	-0.17819527	20
0.071036626	29	1.20E-02	-0.143066135	29
-1	2	5.74E+00	-0.721316344	2

-0.955037638	13	2.23E+03	-0.788202259	13
-0.365724458	22	2.82E+01	-0.470082128	22
-0.252573471	7	1.13E+00	-0.543665599	7
-0.652332342	15	2.21E+02	0.229975234	15
0.017217974	2	3.31E-01	-0.036260349	2
0.317190555	16	2.91E-03	0.005587916	16
-0.598781691	42	7.13E+05	1	42
0.245903276	13	1.37E-02	0.106616831	13
-0.661651316	10	4.00E+01	-0.755647897	10
-0.07505229	7	3.85E-01	-0.463442321	7
-0.432983853	29	3.65E+02	-0.263264075	29
0.196944963	14	1.83E-02	-0.064911041	14
-1	13	6.81E+03	-0.503610388	13
-0.371546061	9	3.28E+00	-0.279461907	9
-1	7	1.36E+02	-0.315387701	7
-0.840050244	30	2.46E+06	-0.501427406	30
-3	3	5.16E+04	-2	3
-1	4	2.72E+01	-0.862595418	4
0.111790766	7	1.24E-01	-0.065363361	7
0.07462253	6	1.75E-01	0.433001089	6
-1	9	2.01E+03	-0.76461535	9
-0.784198824	19	5.77E+03	-0.428242306	19
-0.034814281	1	4.02E-01	0.235026681	1
-0.14428052	38	1.22E+00	0.981384854	38
0.052700301	1	3.34E-01	0.182832496	1
0.867543891	5	4.57E-03	0.858306454	5
-0.97456469	7	8.96E+01	0.253693106	7
-0.302221924	28	2.21E+01	1	28
0.553135727	5	2.03E-02	0.101794179	5
0.23103394	11	2.47E-02	0.57979231	11
-0.634213006	7	1.14E+01	0.660592978	7
-1	22	1.03E+06	-0.708233844	22
0.03048925	2	3.19E-01	0.016898439	2
0.239588416	11	2.30E-02	-0.024207667	11
0.087175573	8	1.27E-01	0.447675097	8
-0.182836139	4	6.38E-01	0.420371576	4
-0.539107736	21	3.34E+02	2	21
-0.535592875	8	8.29E+00	0.486479345	8
-0.126727727	9	5.39E-01	-0.208315866	9
-0.191262723	5	6.97E-01	-0.249429352	5
0.027244821	18	7.80E-02	0.173944619	18
0.546974822	2	7.59E-02	0.417833191	2
0.725058225	7	3.02E-03	0.241232387	7
-0.175623056	19	1.20E+00	-0.355339091	19
0.921177967	29	3.30E-10	2	29
-0.425947397	8	3.97E+00	0.423633227	8
-0.243937942	16	2.39E+00	-0.182506527	16

-0.062430587	5	3.78E-01	-0.54804497	5
-1	6	2.86E+02	-1	6
-2	10	4.74E+05	-1	10
-2	6	2.72E+03	-1	6
0.30916247	2	1.47E-01	-0.238188376	2
-0.514362264	19	1.35E+02	0.608481793	19
-0.665806574	25	9.95E+03	0.022331973	25
-0.921785842	15	4.64E+03	0.884327958	15
-1	5	4.58E+01	-0.433376024	5
-0.031371613	4	3.43E-01	-0.048385194	4
-1	21	4.01E+07	-0.666079274	21
-0.961929188	11	7.79E+02	-1	11
-0.92632621	9	1.96E+02	-0.481528474	9
1	11	1.41E-05	0.676742156	11
-0.35914473	4	1.31E+00	-0.120498925	4
0.20452941	6	8.67E-02	0.729057807	6
0.095839164	32	4.84E-03	1	32
-0.532306535	10	1.41E+01	-1	10
0.59648208	8	4.14E-03	-0.359266351	8
-0.085486199	10	3.92E-01	-0.899622194	10
-0.990825527	11	1.00E+03	-0.677518391	11
-0.046572439	1	4.12E-01	0.002448261	1
-0.910136804	10	2.94E+02	-0.610541459	10
0.982076488	2	2.26E-02	0.243589563	2
0.141838306	5	1.43E-01	-0.002604094	5
0.153127754	5	1.36E-01	-0.389322075	5
-2	23	4.06E+10	-2	23
-0.535167436	3	2.04E+00	-0.556299048	3
-0.326513842	8	2.04E+00	-0.245745208	8
-1	2	8.12E+00	-1	2
0.068862389	16	5.66E-02	-0.664398406	16
0.485388744	10	4.01E-03	0.225393956	10
-0.696115798	22	5.38E+03	-0.809046863	22
0.785276899	10	3.61E-04	0.29689986	10
-0.806030148	19	7.82E+03	-0.165225882	19
0.841726102	4	9.62E-03	-0.288085223	4
-0.434716151	29	3.78E+02	0.007353668	29
-0.040320582	2	3.89E-01	2	2
-1	7	1.22E+03	2	7
-1	3	5.59E+01	2	3
-1	3	1.92E+01	2	3
0.630155297	18	2.62E-05	-0.027856024	18
1	11	9.16E-06	-0.180677044	11
-0.202797709	22	2.12E+00	-0.593704516	22
-0.289221943	6	1.25E+00	-0.365352444	6
-0.208638986	7	8.64E-01	-0.524850965	7
0.095043565	5	1.79E-01	0.248372361	5

1	14	5.83E-07	0.272501666	14
-1	6	3.08E+02	-1	6
-1	3	1.86E+01	-1	3
-0.355597462	23	2.82E+01	-1	23
0.078474461	28	1.16E-02	-0.2688983	28
-0.9010182	4	1.21E+01	-0.253243238	4
-0.818093077	24	9.48E+04	-0.852246903	24
-0.803420829	3	5.13E+00	-1	3
0.531188915	10	2.78E-03	-0.450906855	10
1	2	5.81E-03	-0.090651162	2
-0.020440563	1	3.90E-01	-0.167125237	1
-1	3	5.47E+01	-2	3
-2	26	5.66E+13	-2	26
-0.35803733	7	2.14E+00	-0.353245314	7
-0.137668865	9	5.84E-01	-0.34556902	9
-0.739826801	14	3.92E+02	-0.742842842	14
-0.790708235	24	5.92E+04	0.845364731	24
0.13587825	10	6.63E-02	-0.054582724	10
-0.146083535	20	8.18E-01	2	20
-0.337826271	19	1.15E+01	2	19
-1	24	6.88E+06	-0.704213058	24
-1	26	8.38E+08	-1	26
-0.272075676	17	3.72E+00	1	17
-1	19	1.76E+07	-0.336366269	19
0.052142981	4	2.44E-01	-0.244454239	4
-0.260892332	16	2.92E+00	0.646613341	16
-0.724545365	6	1.31E+01	-0.205228827	6
-0.043082126	12	2.56E-01	-0.94935988	12
0	1	3.73E-01	-0.008960027	1
-0.519980243	6	4.35E+00	-0.545215875	6
-1	12	2.71E+03	0.514793853	12
0.112824209	25	9.10E-03	1	25
-0.306975483	45	2.23E+02	-0.469227741	45
-0.668510381	7	1.40E+01	-0.911124623	7
-0.602407921	15	1.26E+02	-0.294918316	15
-0.387300503	6	2.12E+00	-0.189510886	6
-0.280896466	14	2.96E+00	-1	14
0.069150286	2	2.87E-01	-0.006915425	2
-1	6	9.10E+01	-0.512668392	6
0.237463102	13	1.49E-02	-0.678328113	13
-0.223565491	6	8.77E-01	-2	6
-0.894931651	14	2.05E+03	-2	14
-0.326434566	4	1.15E+00	-0.321146158	4
-0.074779812	3	4.19E-01	0.008377558	3
-0.336574118	9	2.53E+00	-0.187681811	9
-0.652656055	35	2.79E+05	-0.750246528	35
-1	30	5.32E+09	-1	30

-2	5	1.34E+03	-2	5
0.006768858	14	1.38E-01	-0.738212324	14
-0.421711809	13	1.08E+01	-0.440679427	13
-0.527505359	14	4.09E+01	-0.340202022	14
-0.744233915	6	1.46E+01	-0.566466039	6
-0.826747842	8	5.86E+01	-0.71210567	8
-1	11	1.84E+04	-0.862062976	11
-0.243740031	34	1.18E+01	-0.117067195	34
-0.110509629	1	4.72E-01	-0.046748127	1
0.191241446	8	6.29E-02	-0.239541618	8
-0.004281838	3	3.29E-01	-0.49011427	3
-1	3	5.28E+01	-0.930707736	3
-0.784551269	3	4.81E+00	-0.5514257	3
-0.848015938	7	4.16E+01	-0.72219081	7
-0.767792374	4	6.99E+00	-0.166389167	4
-0.407866599	4	1.60E+00	0.165688955	4
0.329077356	26	1.44E-04	0.534489112	26
1	9	6.08E-05	0.973596842	9
0.934388116	6	1.68E-03	1	6
-0.313885178	9	2.14E+00	-0.248525443	9
-0.240241584	3	7.40E-01	0.04363571	3
-0.703485724	8	2.56E+01	-0.353984064	8
-0.493426264	28	9.77E+02	0.849971102	28
-0.380508653	17	1.46E+01	0.051684303	17
-0.413332596	8	3.65E+00	-0.510196611	8
-0.494480089	4	2.28E+00	-0.714448307	4
0.271197888	6	6.05E-02	-0.038338099	6
-0.354148426	32	1.18E+02	-0.254705007	32
0.519689435	2	8.19E-02	-0.429749367	2
0.230269991	10	3.11E-02	-0.853218816	10
-0.635821962	28	1.64E+04	-0.033483394	28
-0.066946363	5	3.86E-01	0.232011311	5
-0.031697488	3	3.61E-01	0.567704696	3
-0.523393222	6	4.43E+00	-0.006771293	6
0.472071614	8	9.55E-03	-0.016729879	8
0	2	3.48E-01	-0.006364575	2
0.351519653	23	2.34E-04	-0.045512067	23
-0.426657481	14	1.40E+01	0.151535531	14
-0.451464083	3	1.53E+00	-0.022473023	3
0.221744731	4	1.22E-01	0.591303959	4
-0.280037521	11	2.09E+00	0.46945082	11
-0.899079761	15	3.59E+03	-0.711622285	15
-0.229793528	11	1.35E+00	-0.172541199	11
-1	11	1.65E+04	-0.549039198	11
-0.713950948	6	1.24E+01	0.468198784	6
-0.749934314	4	6.50E+00	0.276238056	4
0.488807263	2	8.92E-02	-0.538329235	2

-0.206054327	32	4.24E+00	0.687482019	32
-0.533981882	2	1.54E+00	-0.63142992	2
-1	3	1.86E+01	-0.502685361	3
-2	5	1.92E+03	-0.884215945	5
-0.693252703	5	7.56E+00	-0.045661292	5
0.378637532	5	4.66E-02	-0.120298193	5
-2	7	5.22E+03	-0.975567412	7
-1	4	1.00E+02	-1	4
-0.795252	4	7.83E+00	-0.550206422	4
0.58115932	37	9.39E-09	0.475264016	37
-0.551954719	2	1.62E+00	0.898333646	2
0	8	2.27E-01	0.082160183	8
-0.748444643	7	2.28E+01	0.148438863	7
-0.803222536	4	8.08E+00	-0.321342705	4
-0.256492397	7	1.15E+00	-0.833611856	7
-0.783046925	3	4.78E+00	-0.548656111	3
-0.774881334	20	7.84E+03	-0.771124341	20
-0.111741263	9	4.83E-01	-0.616506953	9
-0.123567335	5	5.06E-01	0.124784522	5
0.701107691	3	2.91E-02	0.077959916	3
-0.573282236	9	1.45E+01	-0.700524783	9
0.362656336	26	7.72E-05	1	26
-0.215941143	12	1.29E+00	0.14459841	12
1	5	1.46E-03	0.35711271	5
0.937397589	8	4.20E-04	-0.521797064	8
0.210317253	18	6.87E-03	-0.957447346	18
-1	11	1.09E+03	-0.558023462	11
-1	9	3.67E+02	-0.818937921	9
0.045348707	11	1.24E-01	0.663976995	11
-1	9	7.61E+03	-1	9
-0.31336496	6	1.42E+00	-0.272404625	6
-1	12	1.52E+05	-1	12
0.05475131	6	1.95E-01	-0.791915967	6
-0.419135742	11	7.00E+00	-0.45716721	11
-0.781625512	14	6.12E+02	-0.145563313	14
-1	6	5.70E+02	0.291238582	6
-0.604426894	37	1.65E+05	0.823150317	37
-0.36338251	7	2.21E+00	0.141997935	7
-0.212400451	12	1.24E+00	-0.608549308	12
-0.064196585	5	3.81E-01	0.079297716	5
-0.604439415	7	9.51E+00	0.994781447	7
-0.044487809	1	4.10E-01	0	1
-0.118778243	3	4.87E-01	-0.11797754	3
-1	7	1.22E+02	-0.457671449	7
-0.21081024	5	7.65E-01	-0.126141021	5
-1	9	6.44E+03	-0.675723613	9
-0.345977951	8	2.32E+00	-1	8

0.0928121	6	1.59E-01	-0.590681942	6
-0.40814652	10	5.22E+00	-0.710431702	10
0.39826512	6	3.04E-02	-0.306473925	6
0.062500533	18	4.89E-02	-0.15996431	18
-0.106905951	24	4.61E-01	-0.313047401	24
-0.144183189	13	6.74E-01	-0.521537663	13
0.735932626	36	3.05E-10	2	36
0.030461714	11	1.41E-01	0.330137968	11
0.400724648	10	7.91E-03	0.365085975	10
3	5	4.88E-08	2	5
3	3	2.31E-06	1	3
0.487231066	3	6.07E-02	0.980506953	3
-0.187454231	11	9.36E-01	2	11
-0.45039543	5	2.39E+00	-0.154512033	5
-0.370521249	19	1.82E+01	-0.394094324	19
-0.779437017	6	1.77E+01	-0.58059263	6
-0.57910976	17	1.79E+02	1	17
0.460527544	16	5.24E-04	0.831386739	16
-0.213290527	12	1.26E+00	-0.041506083	12
0.195601508	19	6.85E-03	-0.266586713	19
0.350719875	3	9.70E-02	0.133695506	3
-0.192514852	13	1.09E+00	-0.164582194	13
0.390611888	17	8.71E-04	0.358990509	17
0.824189684	6	3.05E-03	0.106006056	6
0.908238724	3	1.43E-02	0.357362133	3
0.350311231	2	1.31E-01	0.20569713	2
-0.464166334	5	2.55E+00	0.488774354	5
-0.207107982	5	7.52E-01	0.09817225	5
-0.553796435	7	7.00E+00	0.010146378	7
1	9	7.60E-06	-0.691016813	9
0.14074346	11	5.42E-02	-0.641673828	11
0.095310534	3	2.33E-01	-0.104725821	3
-0.205751583	4	7.01E-01	0	4
0	1	3.73E-01	0	1
2	8	6.22E-07	1	8
0.049238395	18	5.83E-02	0.276068407	18
0.047047478	4	2.49E-01	0.057482915	4
0.075559146	15	5.90E-02	0.241927032	15
-0.064476224	6	3.71E-01	0.089391085	6
0.049178813	13	9.76E-02	2	13
-0.056683842	5	3.68E-01	0.381639805	5
-0.730425173	23	1.40E+04	-0.631117418	23
-0.281876986	13	2.67E+00	-0.325975894	13
-0.120883776	34	6.38E-01	0.63921553	34
0.170678178	2	2.16E-01	-0.425854688	2
0.771710365	7	2.27E-03	-2	7
0.25110064	4	1.08E-01	-0.014170066	4

-0.302705008	6	1.34E+00	-0.529770248	6
-1	4	2.33E+01	-1	4
-0.009417978	3	3.35E-01	-0.004211747	3
0	1	3.73E-01	0	1
0.348010479	19	8.20E-04	-0.337768457	19
-0.453220331	1	9.79E-01	-0.663016385	1
-1	7	5.48E+02	-1	7
-1	17	1.45E+06	-2	17
-0.52527057	2	1.50E+00	-0.265078259	2
-0.319873634	9	2.24E+00	-0.585195301	9
-2	7	2.17E+03	-1	7
-0.444124864	28	3.68E+02	-0.208404253	28
0.101818761	13	5.77E-02	0.156110668	13
-0.553106527	27	2.38E+03	-0.376197827	27
-0.756146598	2	2.85E+00	-0.504416352	2
-0.216877406	3	6.83E-01	-0.074360174	3
-0.162040821	8	6.75E-01	-0.387698294	8
-1	7	1.18E+02	-0.644694508	7
-0.988901266	4	1.73E+01	-0.901644611	4
-0.472805337	3	1.65E+00	-1	3
0.208524575	12	2.44E-02	-0.709973364	12
0.055535943	3	2.68E-01	-0.345038204	3
0.273962121	3	1.26E-01	-0.238973249	3
-0.810033902	9	8.30E+01	-0.43056784	9
-0.590975607	4	3.39E+00	-0.348095562	4
-0.739914001	9	4.95E+01	0.776950678	9
-0.037732189	1	4.04E-01	0	1
0	2	3.48E-01	-0.193189757	2
-0.082348548	2	4.37E-01	-0.01185098	2
-0.801758529	4	8.04E+00	-0.470139501	4
-1	5	3.41E+01	-0.455618641	5
-0.851058692	5	1.60E+01	-0.75913273	5
-1	6	1.77E+02	-1	6
-0.888889493	2	4.12E+00	-0.910306773	2
-0.064944854	9	3.42E-01	-1	9
-0.078955804	21	3.02E-01	-0.139909533	21
0.232092055	9	3.83E-02	-0.403104968	9
-2	2	2.43E+01	-0.347979209	2
-0.981092969	7	9.32E+01	-1	7
-0.185127352	5	6.77E-01	-0.032709582	5
0.003599321	7	2.39E-01	-0.59057564	7
-0.040832496	19	1.84E-01	0.263477459	19
-0.218981725	19	2.20E+00	-0.094517533	19
-3	13	4.31E+10	-1	13
-0.53676254	5	3.60E+00	-0.031675998	5
-0.324354163	5	1.31E+00	-0.362740321	5
-0.493910577	4	2.28E+00	-0.151821307	4

0.141336111	1	2.76E-01	0.036582986	1
0.906991471	6	1.95E-03	0.61137187	6
-0.420555375	8	3.83E+00	0.081007205	8
-0.533934143	15	5.79E+01	0.316545149	15
-0.904770535	14	2.27E+03	-1	14
0	3	3.24E-01	-0.015450906	3
-0.812452234	6	2.11E+01	0.169237333	6
-0.269285432	4	9.09E-01	0.452622368	4
-0.354300218	6	1.78E+00	0.090850199	6
-0.414897029	3	1.35E+00	-0.436709128	3
-0.392406631	10	4.60E+00	0.012207458	10
0.190478565	8	6.33E-02	0.62763225	8
0.025721065	11	1.47E-01	-0.045788953	11
0.064076843	14	7.52E-02	0.12427864	14
0.963356333	8	3.53E-04	-0.298641204	8
-2	3	3.44E+02	-2	3
-2	11	1.59E+06	-1	11
-0.541914987	14	4.77E+01	0.56392381	14
-0.354323824	6	1.78E+00	-0.293641798	6
-0.481390582	93	6.24E+09	-0.512535241	93
-1	11	5.15E+04	0.062270749	11
-0.770181833	16	1.29E+03	1	16
-0.121791161	2	4.88E-01	0.064956684	2
0	1	3.73E-01	-0.114600383	1
-0.36836205	4	1.36E+00	-0.338392443	4
-1	7	3.57E+02	-2	7
2	37	3.08E-21	0.788865471	37
0.888686863	6	2.15E-03	0.241005604	6
-0.307017865	2	8.17E-01	-0.003668331	2
-0.291195586	10	2.04E+00	-0.220003803	10
2	17	2.26E-11	0.037268356	17
0.307595562	6	4.97E-02	-1	6
0.469374621	4	4.42E-02	-0.495327731	4
1	2	1.70E-02	0.033039948	2
-0.593557794	30	1.34E+04	-0.54153157	30
-0.846771773	17	5.24E+03	0.19185446	17
-0.431592754	13	1.19E+01	-0.437061162	13
-1	21	5.78E+06	-1	21
-0.497937797	7	4.99E+00	-0.436691602	7
-0.911542199	7	6.12E+01	-0.760547328	7
-2	16	1.11E+07	-0.703923617	16
0.087349228	13	6.67E-02	0.006661944	13
-0.329442411	23	1.83E+01	0.234001707	23
-0.95512291	18	3.58E+04	-0.349284177	18
-0.309926753	6	1.40E+00	0.382255727	6
-0.657754065	13	1.14E+02	-0.294623379	13
-0.400338236	3	1.28E+00	0.15666528	3

-0.321166947	13	3.95E+00	-0.357349668	13
-0.597673863	7	9.13E+00	-0.36876329	7
-0.240228955	14	1.92E+00	-0.327108047	14
0.420805622	7	1.91E-02	0.06088932	7
0.104561803	2	2.60E-01	0.294497682	2
0.065426625	7	1.64E-01	0.398313891	7
-0.518774042	26	9.43E+02	-0.249461898	26
-1	18	1.52E+07	-0.586208062	18
-0.89825944	4	1.19E+01	-0.575547638	4
-1	6	2.64E+02	-0.768207014	6
-0.92188783	4	1.31E+01	-0.41335715	4
-0.527721226	5	3.45E+00	0.053214956	5
-1	5	7.21E+01	-0.358781302	5
-2	8	3.93E+04	-2	8
-0.486317863	9	7.63E+00	-0.922905583	9
-0.510123499	18	9.75E+01	-1	18
2	4	4.43E-04	-0.370628813	4
1	13	3.95E-06	-0.412955333	13
-0.656283422	21	1.99E+03	0.869790598	21
-0.026853908	18	1.60E-01	-0.435358878	18
-0.409918152	1	8.93E-01	0.014740947	1
-0.07513641	6	3.93E-01	0	6
-1	11	3.02E+04	0.711267719	11
-0.545054751	13	3.70E+01	-0.125257114	13
-0.100433402	23	4.14E-01	0.31853687	23
-0.887707003	10	2.45E+02	0.101477779	10
-0.147793605	19	8.17E-01	0.324861234	19
-0.657983981	6	9.17E+00	0.294388774	6
-0.407816598	17	2.06E+01	0.071922857	17
0.092895903	28	8.75E-03	0.135185845	28
-2	5	1.55E+03	1	5
-0.601892717	6	6.78E+00	0.50753354	6
-0.670120294	11	6.18E+01	-0.14878187	11
-0.51669247	9	9.55E+00	-0.423817859	9
0.123876482	9	8.50E-02	0.018389365	9
-0.805453348	53	4.36E+10	-0.386960092	53
0.686624887	29	4.02E-08	0.227586345	29
-0.275406208	13	2.50E+00	0.123222578	13
-0.734963265	17	1.28E+03	0.190348322	17
-0.212463842	8	9.47E-01	-0.352982129	8
-0.084365058	8	4.01E-01	-0.101538417	8
-0.349785177	5	1.48E+00	-0.160266582	5
-0.388877784	25	7.08E+01	-0.299441434	25
0.19716471	8	6.05E-02	0.01019273	8
0.4960484	5	2.67E-02	-0.122323052	5
0.042416401	1	3.41E-01	-0.003279656	1
-0.247372716	2	6.92E-01	-0.108430895	2

-0.43359108	28	2.98E+02	0.248939468	28
-0.457749666	24	1.93E+02	0.328604726	24
1	8	1.48E-04	-0.291135474	8
-0.122967268	4	4.99E-01	-0.163365965	4
-0.273273443	4	9.24E-01	-0.1541319	4
-0.574052542	30	8.90E+03	-0.567937738	30
-0.553574397	11	2.25E+01	-0.359633286	11
-0.082686409	4	4.23E-01	-0.202519553	4
0.125562669	11	6.18E-02	-0.012627573	11
0	6	2.62E-01	0.160682027	6
-0.54842756	3	2.13E+00	-0.708903564	3
-0.51980209	9	9.77E+00	-0.32141769	9
0.02889848	8	1.87E-01	0.112120371	8
-0.543819732	5	3.72E+00	-0.244459118	5
-0.039684999	11	2.59E-01	0.095680261	11
-0.229653363	6	9.06E-01	-0.445466195	6
0.041576051	12	1.16E-01	-0.056301621	12
-0.626683892	5	5.51E+00	-0.032913222	5
-0.04415182	8	3.06E-01	0.056306647	8
-1	10	1.06E+03	0.024680354	10
0.791501669	11	1.91E-04	0.178430979	11
0.263566316	7	4.94E-02	-0.106182817	7
0.473584816	13	1.41E-03	1	13
0.420711165	1	1.53E-01	0.763248869	1
0	2	3.48E-01	0	2
-2	9	3.24E+05	-1	9
-0.794997139	18	4.27E+03	-2	18
-0.544387553	8	8.80E+00	-0.00332819	8
-0.471368529	6	3.35E+00	-0.53227576	6
-0.388215686	64	9.03E+04	0.316557123	64
-0.629673878	10	3.09E+01	-0.570509374	10
0.156457254	7	9.46E-02	-0.02248307	7
-0.497298689	6	3.85E+00	-0.160396384	6
-0.286306575	9	1.75E+00	-0.097228116	9
-0.017641316	1	3.87E-01	-0.007364098	1
0.42028485	27	1.88E-05	0.190578233	27
0.441857882	19	2.22E-04	0.238591876	19
0.354581357	7	2.85E-02	0.196105852	7
0.131454838	11	5.87E-02	0.364549757	11
0.446692271	11	3.80E-03	0.295087121	11
-0.445731689	24	1.57E+02	-0.572390931	24
0.881369943	11	8.74E-05	0.212381707	11
0.903427899	3	1.45E-02	0.472942739	3
1	12	4.93E-07	0.7864576	12
0.038171555	15	9.00E-02	0.040940429	15
-0.579749126	6	6.01E+00	1	6
1	17	3.46E-08	1	17

-0.68078158	9	3.20E+01	0.019270146	9
-0.07257443	11	3.45E-01	0.228348746	11
-0.450954946	10	7.36E+00	0.061601505	10
0.236974922	6	7.28E-02	-0.156953909	6
-0.747195404	16	9.81E+02	0.215650074	16
-0.251259569	34	1.41E+01	-0.127536171	34
-0.333037846	24	2.25E+01	-0.723956213	24
-0.978331301	7	9.17E+01	-0.679578595	7
-0.027386601	11	2.33E-01	-0.034863723	11
-0.453887402	24	1.80E+02	0.667147979	24
0.397734766	39	5.42E-07	-0.298610921	39
-0.119122844	12	5.21E-01	-0.041207355	12
0.0942971	12	7.10E-02	0.061404333	12
0	3	3.24E-01	-0.042754385	3
0.002017409	8	2.24E-01	0.003536342	8
-0.2152455	6	8.38E-01	1	6
-0.363034972	21	2.29E+01	0.333810715	21
0.067774318	5	2.04E-01	-0.168750034	5
-0.050730934	12	2.75E-01	0.08456295	12
-0.737228783	9	4.85E+01	-0.526802109	9
-0.828695586	9	9.52E+01	-0.675999412	9
-0.248643823	30	9.18E+00	-0.136975714	30
-0.074171538	7	3.83E-01	-1	7
-0.305247295	15	4.37E+00	-0.24829086	15
-0.436132653	9	5.27E+00	-0.054122866	9
-0.255589557	9	1.39E+00	-0.094232369	9
-0.20626882	13	1.25E+00	-0.347556636	13
-0.07432436	2	4.28E-01	-0.105841246	2
0.037864869	6	2.13E-01	0.353605459	6
-0.225831289	24	3.56E+00	0.098656092	24
-0.443265643	11	8.63E+00	-0.481929367	11
0.13369916	4	1.75E-01	-0.18182667	4
-0.536711451	24	7.49E+02	-0.485484595	24
-0.812564116	92	3.74E+18	-0.321321026	92
-0.490491852	11	1.30E+01	-1	11
-0.9048011	9	1.67E+02	-0.316217261	9
-1	10	5.41E+03	-0.25360307	10
-0.145177529	12	6.64E-01	4	12
0.061259077	1	3.28E-01	0.033569586	1
0.36022306	4	6.91E-02	0.590424665	4
0.101937293	6	1.51E-01	0.366811364	6
-0.016607696	22	1.10E-01	-0.088020631	22
0.163667729	2	2.21E-01	-0.256977138	2
-0.108156991	8	4.70E-01	-0.703193692	8
-0.05483952	4	3.78E-01	-0.417735824	4
0	9	2.12E-01	-0.05768055	9
-0.143497334	34	1.09E+00	0.242966998	34

0.719735138	22	9.10E-07	0.688258101	22
-0.143337093	15	7.00E-01	-0.106786417	15
-0.235642666	4	7.92E-01	0.032996883	4
-0.216380743	2	6.35E-01	-0.003426327	2
-1	5	3.81E+01	-0.809526755	5
0.065535004	6	1.84E-01	-0.104021008	6
-0.120895579	25	5.91E-01	-0.080186389	25
0.250125609	4	1.08E-01	-0.424174175	4
1	14	3.21E-06	-0.891898917	14
-0.0654437	12	3.16E-01	0.055459544	12
-0.884057079	4	1.13E+01	0.963954844	4
0.425836101	9	9.18E-03	-0.002254647	9
0.784707482	4	1.22E-02	-0.263739281	4
-0.929513162	16	8.68E+03	-0.388126036	16
-0.340673466	38	2.17E+02	-0.337250899	38
-0.027364692	20	1.45E-01	0.021336446	20
-0.990248663	6	5.53E+01	0.035612067	6
0.283336033	77	6.98E-10	0.826642742	77
-0.472486333	5	2.65E+00	-0.140918957	5
-0.496495159	15	3.79E+01	-0.85010137	15
-0.019523956	5	3.08E-01	-0.263247818	5
-0.04409266	6	3.32E-01	-0.120917457	6
-0.402105527	6	2.30E+00	-0.161314034	6
-0.198288012	4	6.80E-01	-0.06165555	4
-0.119435585	3	4.88E-01	-0.095169911	3
-1	6	2.11E+02	0.076954096	6
-0.027404909	12	2.21E-01	0.103479598	12
-0.10222523	4	4.59E-01	-0.124062344	4
0.123146458	38	1.06E-03	-0.303863197	38
0	2	3.48E-01	0	2
0	4	3.02E-01	0	4
-0.372146463	27	7.42E+01	-0.287211519	27
-0.974298641	20	1.44E+05	-0.679619064	20
-0.049550056	29	1.42E-01	0.117504737	29
-0.130429585	7	5.38E-01	-0.036924526	7
0	7	2.44E-01	-0.019274278	7
0	8	2.27E-01	-0.001721522	8
-0.068004395	49	1.23E-01	1	49
0.252104814	37	4.45E-05	2	37
-0.54156737	5	3.68E+00	0.40540958	5
0.564560731	9	3.30E-03	0.606449887	9
-0.164164378	24	1.23E+00	0.842446638	24
-1	6	9.56E+01	0.051883995	6
0.968531769	10	8.30E-05	0.606008357	10
0.132235167	13	4.26E-02	0.663207802	13
-0.104359571	13	4.53E-01	0.164162478	13
-0.71971455	9	4.26E+01	2	9

0	6	2.62E-01	-0.028532782	6
-0.036769398	2	3.85E-01	0.011361238	2
-0.25519213	10	1.53E+00	0.030260797	10
-0.383500205	36	4.69E+02	-0.551354807	36
0.655065617	4	2.07E-02	-0.798773521	4
0.532763724	22	1.78E-05	-0.27995378	22
-0.282338249	18	4.75E+00	-0.069936796	18
-0.32475953	27	2.99E+01	0.479914585	27
0.555367616	6	1.30E-02	-0.676446506	6
-0.325852926	6	1.52E+00	-0.135136325	6
-0.023387332	32	7.03E-02	-0.038016821	32
0.342899243	19	8.81E-04	-0.028313748	19
0.011842081	3	3.11E-01	0.005031353	3
0	3	3.24E-01	0	3
-0.479863788	10	9.29E+00	-0.209471014	10
-0.283625312	9	1.71E+00	-0.455604355	9
-0.042121025	15	2.23E-01	-0.021062799	15
-0.002523636	6	2.66E-01	0.001035395	6
-0.282786733	23	8.47E+00	0.028936343	23
-0.619529865	76	1.16E+11	-0.367147987	76
-0.085646122	12	3.81E-01	-0.132367892	12
-1	11	2.21E+03	1	11
-0.376445181	8	2.85E+00	-0.332180364	8
0.05776725	7	1.72E-01	0.015453036	7
0.028621608	8	1.88E-01	-0.026912929	8
-0.127682819	8	5.36E-01	-0.050700521	8
-0.446407638	5	2.34E+00	-0.099019067	5
-0.009851862	4	3.14E-01	-0.029875175	4
-0.102063066	22	4.27E-01	-0.006997604	22
-0.241212875	10	1.37E+00	-0.089955023	10
0.05376443	1	3.33E-01	-0.01143908	1
-0.407530323	6	2.37E+00	-0.041544282	6
-0.480954177	5	2.76E+00	-0.084881749	5
-0.501670228	11	1.43E+01	-0.004897925	11
-0.045516067	16	2.22E-01	-0.009083706	16
-0.540316519	10	1.51E+01	-0.070580468	10
-0.007511519	3	3.32E-01	0.00707765	3
-0.071740916	4	4.05E-01	-0.132187356	4
-0.613111911	2	1.91E+00	-0.321987455	2
-0.288466607	14	3.21E+00	-0.161124744	14
-0.013437323	71	5.01E-03	0.251906656	71
0	2	3.48E-01	0.045725214	2
0.080939543	9	1.17E-01	-0.710236008	9
-0.18093929	5	6.64E-01	-1	5
-0.219264092	8	9.91E-01	-0.73617481	8
-0.77005887	9	6.18E+01	-0.277792449	9
0.343728595	7	3.04E-02	2	7

-0.060365662	4	3.86E-01	-0.121589164	4
-0.018226338	8	2.57E-01	-0.027388101	8
-0.421565694	4	1.69E+00	-0.440616834	4
-1	5	3.36E+02	-2	5
-1	10	3.64E+03	-0.424410272	10
-0.004698275	2	3.52E-01	0.001300165	2
-0.525877765	5	3.42E+00	-0.095639741	5
-2	7	2.15E+04	0.451580144	7
-0.415068409	7	3.02E+00	0.465747484	7
-0.323942385	6	1.51E+00	-0.109503368	6
0.126984481	32	2.40E-03	0.04683586	32
0	4	3.02E-01	0	4
0.034624366	3	2.88E-01	0.014164738	3
0.564961351	3	4.64E-02	0.210662851	3
0.062109631	5	2.09E-01	-0.05712649	5
-0.022132631	5	3.12E-01	-0.294086438	5
-0.00069906	11	1.85E-01	-0.00029284	11
-0.251699281	11	1.63E+00	0.080487744	11
-0.260840691	19	3.94E+00	1	19
-1	12	4.58E+04	2	12
0.386339793	2	1.19E-01	0.642035641	2
-0.02734963	1	3.96E-01	0.029877974	1
0	2	3.48E-01	0	2
-0.284181941	9	1.72E+00	0.167773564	9
-0.192868705	8	8.30E-01	-0.837075951	8
0.333128443	7	3.24E-02	0.892585868	7
-0.035493352	24	1.35E-01	0.196588391	24
-0.151178134	37	1.43E+00	0.174001607	37
0.322907814	11	1.11E-02	0.187272643	11
-0.277121643	39	4.54E+01	0.075107539	39
-0.112362633	12	4.89E-01	0.210460833	12
0.826175201	31	6.78E-10	-0.765402233	31
-0.609550514	3	2.63E+00	-0.108665421	3
-0.874437103	28	1.86E+06	-0.46271277	28
-0.032752987	3	3.63E-01	-0.182714957	3
-0.036032657	9	2.76E-01	-0.093915353	9
-0.038933286	13	2.35E-01	0.002051827	13
-0.039099817	4	3.54E-01	-0.071191677	4
-0.383035897	5	1.73E+00	-0.358554613	5
0.047562404	24	3.23E-02	-0.256750392	24
-0.011097703	4	3.16E-01	0.373716451	4
-0.269910982	6	1.13E+00	0.615622534	6
0.434817053	5	3.57E-02	0.730861492	5
0.293907675	15	5.00E-03	0.191168606	15
0.124514933	2	2.46E-01	0.172802731	2
-0.190281069	6	7.33E-01	0.051525296	6
-0.031648964	10	2.54E-01	-0.207407346	10

-0.265339041	11	1.84E+00	-0.221636314	11
-0.268114406	29	1.25E+01	0.02910105	29
-0.016951779	11	2.13E-01	-0.012784357	11
-0.387081795	17	1.59E+01	-0.117505021	17
0	5	2.81E-01	0.020600757	5
-0.486042675	23	2.45E+02	0.273419994	23
-0.385368838	43	1.75E+03	0.144045581	43
0.121714194	17	2.59E-02	0.002421702	17
-0.543844986	16	8.62E+01	-0.068500015	16
-0.5394432	18	1.44E+02	0.031230944	18
0.067143388	5	2.04E-01	0.065933119	5
0.183989579	5	1.17E-01	-0.20744814	5
0.106025329	44	7.15E-04	-0.038742481	44
-0.703530043	3	3.64E+00	-0.114103661	3
-0.149287687	6	5.87E-01	-0.06636043	6
-0.223041536	41	1.22E+01	-0.039710478	41
1	13	1.97E-06	-0.348987555	13
0.601710118	22	5.94E-06	-0.51049504	22
-1	21	1.59E+06	-1	21
-0.087912433	17	3.64E-01	-0.524527191	17
-0.419384032	6	2.53E+00	-0.313283819	6
-0.25978986	11	1.75E+00	-0.454340529	11
-0.259096198	15	2.59E+00	-0.004200599	15
-0.128074026	23	6.55E-01	0.054361982	23
-0.363041475	19	1.64E+01	-0.146920491	19
-0.242907158	4	8.16E-01	-0.120773509	4
0	1	3.73E-01	0	1
0.070850133	20	3.46E-02	-0.105442122	20
0	2	3.48E-01	-0.002388524	2
0.14345399	81	5.17E-07	0.080510625	81
0.264770638	11	1.85E-02	0.350601251	11
-0.202812437	7	8.34E-01	-0.172935312	7
-0.668097747	6	9.69E+00	-0.652959673	6
-0.829749695	2	3.50E+00	-1	2
0.058055148	15	7.19E-02	-0.334123929	15
0.06510294	3	2.59E-01	0.012265595	3
0.369074104	5	4.87E-02	-0.074520462	5
-0.344752235	34	1.30E+02	-0.066489766	34
2	3	1.05E-03	2	3
-0.060261165	42	1.18E-01	-0.01769848	42
-0.143940602	17	7.39E-01	-0.265197289	17
-0.110586033	41	5.05E-01	-0.200866259	41
-0.082935934	10	3.84E-01	-0.287996453	10
0	5	2.81E-01	-0.612919578	5
-0.645700363	3	2.98E+00	-0.608861375	3
-0.374839722	10	4.00E+00	-0.104420212	10
0.604969603	10	1.54E-03	-0.044449454	10

0.157909309	1	2.67E-01	0	1
-0.112707678	25	5.11E-01	-0.049000722	25
-0.077844638	13	3.47E-01	0.006181909	13
-0.133526648	8	5.57E-01	-0.26346507	8
-0.19578264	19	1.59E+00	-0.725382861	19
-0.004075966	2	3.52E-01	-0.005068584	2
-0.611805577	14	1.00E+02	-0.455825549	14
-0.719886138	6	1.28E+01	0.866516795	6
0.108102225	9	9.55E-02	0.518138921	9
0.421110149	2	1.08E-01	0.291519144	2
0.147587942	12	4.32E-02	0.026743989	12
-1	12	4.73E+03	-0.793032391	12
-0.781488695	2	3.06E+00	-0.620672637	2
-0.631828783	9	2.23E+01	0.113022829	9
-0.013263048	30	6.34E-02	0.179523826	30
0.105718772	10	8.45E-02	-0.038710974	10
-0.343441878	4	1.23E+00	-0.104885891	4
8.51E-05	7	2.44E-01	-0.04628935	7
0.07665002	2	2.81E-01	-0.167642	2
-1	28	2.53E+10	-1	28
-0.002461807	6	2.65E-01	-0.036005067	6
-0.167139548	26	1.40E+00	-0.314932259	26
0.172205791	7	8.60E-02	-0.025360474	7
0.125529353	19	1.82E-02	0.002272206	19
0	4	3.02E-01	0	4
0.007888431	13	1.47E-01	0.305539468	13
0.089616941	25	1.38E-02	0.207920887	25
-0.114690067	10	4.95E-01	0.055207927	10
-0.145515833	16	7.35E-01	-0.566243616	16
-0.375831847	6	2.00E+00	-0.028236379	6
-1	3	3.65E+01	-0.603730651	3
-1	15	1.15E+04	-0.926145011	15
-0.135507583	66	1.61E+00	-0.034486666	66
-0.003611095	5	2.86E-01	-0.103895188	5
-0.250260085	94	3.71E+03	0.228682326	94
0.385363812	7	2.36E-02	0.672214317	7
0.288675083	21	1.11E-03	1	21
-0.400657949	34	4.91E+02	0.197441953	34
-0.08127713	5	4.14E-01	0.317221284	5
-0.029572792	26	1.10E-01	-0.000683705	26
-0.320397374	22	1.37E+01	-0.053986807	22
0	5	2.81E-01	-0.001276234	5
0.039302071	16	8.07E-02	0.090008206	16
0.681394627	13	1.76E-04	1	13
0.027159894	18	7.81E-02	-0.052429963	18
0	21	9.06E-02	0	21
0	2	3.48E-01	0.002736035	2

0.022928306	63	1.74E-03	0.242322124	63
-1	11	4.10E+03	-1	11
-0.843042065	13	7.27E+02	-0.707813191	13
-0.027942283	4	3.38E-01	0.001237815	4
-0.091013242	6	4.28E-01	-0.018350162	6
-0.032209808	9	2.69E-01	-0.002954197	9
-0.228832188	9	1.14E+00	-0.056681298	9
-0.007375132	3	3.32E-01	0	3
-0.017696145	12	2.02E-01	0.458685429	12
-0.064995938	24	2.24E-01	0.591804826	24
-0.486622166	11	1.26E+01	1	11
0.062554351	6	1.87E-01	0.359996845	6
-0.346675354	4	1.25E+00	-0.127339499	4
-0.431240067	9	5.09E+00	-0.386261998	9
0.16640637	10	5.19E-02	-0.104278842	10
-0.29682135	7	1.47E+00	0.458099982	7
-0.074538493	5	4.01E-01	-0.030196181	5
-0.877241683	19	2.11E+04	-1	19
-0.461702158	19	6.47E+01	-0.291812699	19
-2	7	2.70E+03	0.386174336	7
-0.529724477	5	3.48E+00	-0.492406523	5
0.11228786	4	1.91E-01	-0.064312359	4
0	1	3.73E-01	0	1
-0.569489335	11	2.58E+01	-0.344327687	11
-0.093270572	17	3.90E-01	-0.014727252	17
-0.080197997	3	4.27E-01	0.100525033	3
-0.168438213	6	6.51E-01	0.014321846	6
-2	13	5.58E+05	0.471199344	13
-0.232132932	38	1.24E+01	0.142412987	38
-0.186240238	1	5.55E-01	-0.175921267	1
-0.025053018	4	3.34E-01	-0.121087517	4
-0.255620684	13	2.05E+00	-0.482828669	13
0.361227213	12	5.87E-03	-0.769263878	12
-0.04598685	10	2.85E-01	-0.031238388	10
-0.092253825	3	4.45E-01	-0.018854222	3
-0.117966269	16	5.29E-01	-0.039105481	16
-0.414646892	6	2.46E+00	0.164869879	6
-0.104564239	8	4.59E-01	-0.078454636	8
-0.210011246	10	1.06E+00	-0.14545764	10
-0.269256026	5	1.01E+00	-0.254945846	5
-0.055822367	31	1.51E-01	-0.25463792	31
-0.055001167	9	3.18E-01	-0.075874515	9
-0.378933386	8	2.90E+00	0.339657259	8
0.449932972	5	3.32E-02	0.544281395	5
-0.282058988	7	1.35E+00	0.174303385	7
-0.909739921	12	8.37E+02	-0.46205282	12
-1	29	9.15E+09	-1	29

-0.272587459	3	8.27E-01	0.26462835	3
-0.523280926	8	7.64E+00	0.832763013	8
-0.141589256	8	5.88E-01	-0.101702406	8
-0.207781886	8	9.18E-01	-0.068640986	8
-0.192815545	21	1.71E+00	-0.21497748	21
-0.485555102	4	2.20E+00	-0.404645284	4
-0.30640521	9	2.03E+00	-0.469670288	9
-0.026520119	8	2.72E-01	-0.594043617	8
-0.585352715	6	6.20E+00	-0.166818049	6
-0.015314974	3	3.41E-01	-0.009616041	3
-1	18	1.98E+05	-0.570413275	18
-0.344580094	16	7.95E+00	0.168905755	16
-1	31	2.64E+10	-2	31
0.524252826	19	7.05E-05	1	19
-0.158180465	23	1.08E+00	-0.136185443	23
-0.162667303	7	6.54E-01	-0.102337405	7
-0.149447454	23	9.32E-01	0.083311138	23
-0.257231327	24	6.12E+00	0.849218425	24
-0.127415487	9	5.42E-01	-0.096817716	9
-0.081577423	12	3.67E-01	-0.052797992	12
0.118599512	22	1.28E-02	0.152328857	22
-0.057581832	11	3.03E-01	-0.18154198	11
-0.083503464	11	3.80E-01	-0.289546946	11
-0.038502065	49	4.55E-02	-0.020008431	49
-1	10	9.04E+02	-0.123526706	10
-1	6	8.35E+01	-0.420450763	6
0.349888543	16	1.97E-03	0.211658758	16
0.161230374	3	1.86E-01	-0.368009151	3
-0.064573232	3	4.04E-01	-0.052324172	3
-0.524928003	17	9.03E+01	-0.11009505	17
0.065755188	8	1.46E-01	0.065018654	8
-0.19579868	17	1.42E+00	0.459308605	17
0.185966546	6	9.59E-02	0.257080768	6
-0.668126817	6	9.69E+00	-0.047258785	6
-0.480047394	10	9.30E+00	-0.318863415	10
-0.121729751	15	5.48E-01	2	15
0.212792345	25	1.53E-03	0.100283316	25
0.779030746	5	6.95E-03	-0.280449796	5
0.498426903	16	3.33E-04	0.089411472	16
0.756955684	15	2.66E-05	-0.315571987	15
-0.545199381	25	1.15E+03	-0.932756337	25
-0.120070131	10	5.17E-01	-0.084151406	10
-0.581992252	7	8.30E+00	0.01619249	7
-2	19	6.83E+08	-0.943368276	19
-0.198949084	6	7.68E-01	-1	6
-0.755723989	6	1.56E+01	0.247856326	6
-1	8	1.27E+03	-0.556815417	8

-0.1960925	11	1.01E+00	-0.150626926	11
-0.181229976	6	6.98E-01	-0.369292163	6
-0.638172065	3	2.91E+00	-1	3
-0.614266127	6	7.24E+00	-1	6
0.180731621	7	8.16E-02	-0.224838559	7
-0.319998482	28	3.14E+01	0.646932798	28
-0.429800899	13	1.17E+01	-0.542074772	13
0.386181712	6	3.25E-02	-0.309733771	6
-0.013120778	6	2.81E-01	-0.086789218	6
-0.255013893	16	2.72E+00	0.379334493	16
-1	5	7.17E+01	0.2518838	5
-0.908421817	10	2.90E+02	0.185802593	10
-0.661040768	10	3.98E+01	-0.088799785	10
-0.414134478	5	2.01E+00	-0.362848883	5
-0.398165855	8	3.30E+00	0.006618909	8
-0.21057144	4	7.15E-01	-0.113704577	4
-0.677587953	13	1.39E+02	-0.469891512	13
-0.995424616	3	9.93E+00	-0.762055416	3
0	2	3.48E-01	0	2
-0.253414083	1	6.40E-01	0.448739893	1
0.529325371	5	2.28E-02	0.112334794	5
-0.479772087	6	3.50E+00	0.360717376	6
-1	12	1.89E+05	-0.438892817	12
-0.343198265	46	7.97E+02	-0.991539421	46
-0.226273861	7	9.62E-01	-0.15718038	7
-0.308497815	3	9.36E-01	-0.007720494	3
-0.070284105	3	4.12E-01	-0.057288485	3
-2	22	6.77E+10	-1	22
-0.24140539	4	8.11E-01	-0.051176228	4
0.373842416	2	1.23E-01	-0.12384483	2
0.36277329	5	5.02E-02	-0.149349058	5
-0.73248284	8	3.11E+01	-0.480291431	8
-0.282879755	25	1.07E+01	-0.09889223	25
-0.245871611	16	2.44E+00	0.107716027	16
-0.242650294	7	1.06E+00	0.483223681	7
0.03206994	4	2.65E-01	-0.510059532	4
3	7	1.64E-08	2	7
1	7	1.41E-04	0.236015	7
0.199408889	23	2.90E-03	0.121745442	23
-0.261076611	12	1.96E+00	-0.190748956	12
-1	6	1.51E+02	-0.369307882	6
0.166453889	7	8.90E-02	1	7
-0.094383517	12	4.14E-01	1	12
-0.247798375	5	9.12E-01	0.159216811	5
0.338415236	7	3.14E-02	-0.436507809	7
-0.063258322	4	3.91E-01	-0.743271133	4
-1	9	5.37E+02	-0.989599918	9

-0.504450922	11	1.47E+01	-0.794439735	11
-0.045559986	21	1.81E-01	-0.981052837	21
-0.258773067	13	2.12E+00	-0.359719094	13
0.92524562	31	7.83E-11	-0.313939479	31
0.338888846	33	1.54E-05	-0.302933535	33
1	13	2.25E-07	-0.671443293	13
0.461038107	6	2.17E-02	-0.011849929	6
0.078124554	5	1.94E-01	0.975056843	5
-0.506653022	13	2.52E+01	-0.115200286	13
-2	7	1.06E+04	0.13735001	7
-0.480801975	7	4.50E+00	2	7
-0.667013359	8	2.00E+01	-0.089568586	8
-0.280421513	12	2.35E+00	-0.450729138	12
0.001217542	10	1.95E-01	0.104074737	10
3	15	9.83E-18	-0.598636973	15
0.086527489	21	2.42E-02	0.063004979	21
-1	36	4.79E+12	-1	36
-2	21	4.97E+09	-1	21
-1	4	2.05E+01	-0.48045007	4
-0.11699138	4	4.87E-01	-0.018592702	4
-0.050546119	3	3.85E-01	0.079766847	3
-0.097901584	8	4.39E-01	1	8
-0.62275044	6	7.58E+00	-0.417097577	6
-1	2	1.04E+01	-0.215189356	2
-0.494094475	7	4.87E+00	-0.367147605	7
-0.076761562	53	1.51E-01	0.598535809	53
-0.22299404	10	1.18E+00	-0.127158242	10
0.488683515	5	2.76E-02	-0.585603949	5
-0.03144193	27	1.08E-01	-0.419012162	27
0.075743403	9	1.21E-01	-0.798648011	9
-0.280538035	14	2.95E+00	0.138128023	14
-1	8	3.14E+02	-0.069927621	8
-0.716538295	51	7.85E+08	0.329087951	51
0.087125324	25	1.44E-02	0.270460641	25
-0.700650241	4	5.31E+00	-0.518617789	4
-2	14	8.08E+07	-0.73253644	14
-2	6	1.44E+05	-0.912024072	6
0.016282367	5	2.60E-01	-0.038646139	5
-0.024493929	11	2.27E-01	-0.15566359	11
0.574399984	13	5.13E-04	0.465546533	13
0.58569294	20	1.90E-05	-0.124546777	20
-1	12	4.91E+04	-0.778798023	12
-0.291766915	8	1.61E+00	0.283732089	8
-0.42060139	18	2.97E+01	0.163039233	18
-0.492226981	5	2.91E+00	-2	5
0	36	3.13E-02	0	36
0	12	1.71E-01	0	12

0	8	2.27E-01	0	8
0	5	2.81E-01	0	5
0	5	2.81E-01	0	5
0	8	2.27E-01	0	8
-0.054730503	42	1.00E-01	-0.022540019	42
0	12	1.71E-01	0	12
0	1	3.73E-01	0	1
-0.022493395	3	3.50E-01	-0.476633009	3
-0.288930631	16	4.09E+00	-0.28641987	16
0.679940818	2	5.24E-02	0.138454881	2
0.014901045	1	3.62E-01	-0.0212829	1
0.065995887	6	1.83E-01	0.270502478	6
-0.220727438	31	5.48E+00	0.861274909	31
-0.104723113	11	4.56E-01	1	11
-0.02347414	1	3.92E-01	0.292564583	1
-0.620770082	6	7.50E+00	0.142770316	6
-0.398826444	14	1.04E+01	0.394778358	14
-0.460566421	5	2.51E+00	-0.402233571	5
0.191218627	30	8.42E-04	1	30
0.31061563	31	5.13E-05	0.034011642	31
0.159178975	4	1.57E-01	-0.1740759	4
-1	5	2.01E+02	-2	5
-0.250785071	5	9.25E-01	-0.118342591	5
0.320001771	7	3.51E-02	-0.165371596	7
-0.244762739	11	1.54E+00	-0.146489531	11
0.138538325	8	8.97E-02	-0.162796137	8
-0.17676899	27	1.75E+00	-0.014433766	27
-1	9	2.76E+03	-0.210395584	9
-0.153458865	18	8.58E-01	-0.010035129	18
0	2	3.48E-01	-0.003478652	2
0	3	3.24E-01	-0.039105041	3
-0.048735228	13	2.60E-01	-0.015014674	13
-0.543206686	13	3.63E+01	-0.125773484	13
-0.111151846	23	4.95E-01	-0.04573523	23
-0.006212397	15	1.49E-01	-0.011927431	15
-0.219199183	11	1.23E+00	-0.473588262	11
-0.203243794	20	1.88E+00	-0.906084447	20
-0.879453029	35	7.09E+07	-0.792919991	35
0.358802154	2	1.28E-01	-0.118280996	2
-0.012591804	9	2.32E-01	-0.124211914	9
-0.011596388	4	3.16E-01	-0.143058901	4
-0.746222973	6	1.48E+01	-0.745749428	6
-0.162526686	9	7.02E-01	0.162346335	9
0.357997206	9	1.51E-02	0.072663161	9
-0.185048798	5	6.77E-01	-0.039495031	5
-0.835580792	8	6.22E+01	-0.481849224	8
-0.79269068	4	7.74E+00	-0.550129495	4

0.205583385	24	2.13E-03	-1	24
-0.338545006	13	4.70E+00	-0.361280568	13
-0.23465306	2	6.68E-01	-0.235100883	2
-0.957986032	9	2.47E+02	-1	9
1	19	1.74E-09	-0.448299507	19
-0.758346555	13	3.12E+02	-0.290749175	13
-0.248260912	6	1.00E+00	-0.667818245	6
2	21	2.08E-12	-0.718131746	21
-0.012768094	4	3.18E-01	0.00167021	4
-0.078057116	18	3.16E-01	-0.287879324	18
0.259820817	7	5.05E-02	0.448879041	7
-0.582484926	8	1.14E+01	-0.397529313	8
0.207691021	6	8.53E-02	-0.050676152	6
-0.358469255	69	5.64E+04	-0.118570884	69
-0.825450526	68	1.04E+14	-0.595652372	68
-0.084591098	9	3.95E-01	-0.377656299	9
2	4	4.46E-05	1	4
2	4	1.55E-04	1	4
2	5	4.02E-05	0.930975064	5
0.366588174	6	3.61E-02	-0.034315888	6
-0.819141812	13	5.73E+02	-0.661659108	13
0.574206513	1	1.10E-01	-0.219757906	1
1	20	1.79E-10	0.179172001	20
-0.314374481	9	2.15E+00	0.157405596	9
0.024435244	5	2.50E-01	-0.088488856	5
0.735993136	18	6.42E-06	0.144293517	18
-0.250875489	12	1.78E+00	-0.114398124	12
-0.32665555	9	2.35E+00	-0.087108583	9
0.501107159	16	3.22E-04	-0.110631827	16
0.228783376	9	3.92E-02	0.364794946	9
0.751927694	6	4.50E-03	-0.425875617	6
0.27155776	18	3.05E-03	-0.161194109	18
0.077107548	2	2.81E-01	0.065239176	2
-0.054936439	10	3.07E-01	0.576063968	10
0.006107953	16	1.20E-01	-0.112119342	16
0	1	3.73E-01	-0.007636122	1
0	2	3.48E-01	-0.000540605	2
0.046601166	10	1.36E-01	0.239382917	10
0.037168601	42	6.97E-03	0.859166167	42
-1	29	8.56E+09	-1	29
-0.285080324	49	1.80E+02	-0.155721452	49
-0.638947424	13	9.46E+01	-0.893109319	13
-0.472967017	7	4.29E+00	-0.015857811	7
-0.093583573	18	3.88E-01	-0.708416163	18
-0.274079176	14	2.75E+00	-0.313414935	14
-0.614890137	21	1.06E+03	-0.218545557	21
0.641788108	8	3.05E-03	-0.023892106	8

-0.095995592	53	3.04E-01	-0.213578003	53
-0.157217513	24	1.09E+00	-0.453913062	24
-0.011990271	10	2.17E-01	-0.014666054	10
-1	16	2.34E+04	-0.681904912	16
-0.814214207	7	3.39E+01	-0.708363264	7
0.368066957	6	3.58E-02	-0.231525992	6
0.761172626	6	4.28E-03	-0.59700898	6
-0.161365086	6	6.27E-01	-0.013757206	6
-0.519697342	3	1.93E+00	-0.400736164	3
-0.940715469	6	4.23E+01	-0.363419288	6
-0.454728977	17	3.73E+01	-0.282253401	17
0.322061999	14	4.82E-03	0.714370343	14
-0.100453035	21	4.19E-01	-0.124127308	21
-2	13	1.72E+06	-0.82604797	13
0.616006545	4	2.42E-02	0.671506996	4
1	6	5.34E-04	0.864608621	6
-0.189689185	5	6.92E-01	0.566914558	5
-0.167364161	3	5.76E-01	0.386591661	3
-0.214882609	2	6.32E-01	-0.270453244	2
0.546982478	6	1.36E-02	-2	6
2	8	4.11E-06	-0.608193024	8
1	12	1.39E-05	-1	12
0.073985913	3	2.51E-01	-0.590563083	3
-0.260325928	7	1.18E+00	-0.774091447	7
-0.754504208	11	1.29E+02	-0.240494095	11
-0.216388522	96	5.04E+02	-0.094349248	96
-0.196629106	33	3.64E+00	0.077487757	33
-0.861732193	4	1.03E+01	-0.608748884	4
-0.958638056	6	4.66E+01	-0.972761001	6
-0.110074428	15	4.81E-01	-0.184510448	15
0	8	2.27E-01	-0.302734273	8
-0.85217218	52	1.45E+11	-0.896056849	52
0.027466492	9	1.73E-01	-0.051308967	9
-0.612328557	6	7.17E+00	0.430560976	6
-0.692127099	6	1.10E+01	0.744404894	6
-0.676141498	8	2.13E+01	-0.227011701	8
0.760729512	13	7.97E-05	-0.402522618	13
-0.153603412	9	6.57E-01	-0.229505298	9
0.119971612	13	4.81E-02	-0.335931412	13
-0.133750872	28	7.82E-01	-0.079408865	28
0.188911856	11	3.57E-02	-0.141638907	11
-0.012393877	6	2.80E-01	0.105260145	6
-0.015420292	3	3.42E-01	9.99E-05	3
-0.095006633	5	4.41E-01	-0.16155132	5
-0.003838726	5	2.86E-01	-0.003197991	5
0	3	3.24E-01	0	3
0	2	3.48E-01	0.01864618	2

0.006995186	22	7.55E-02	-0.018748785	22
-0.150750563	3	5.44E-01	-0.090619518	3
-0.97098601	5	2.83E+01	0.20980086	5
0.024481742	14	1.15E-01	0.575122606	14
-0.007908353	4	3.12E-01	0.220350644	4
-0.144676989	12	6.61E-01	0.314871185	12
0.380543303	4	6.36E-02	-0.493682446	4
-0.069909364	38	1.72E-01	-0.33366401	38
-0.275893144	18	4.36E+00	-0.322367002	18
-0.168928193	7	6.79E-01	-0.095316044	7
0	9	2.12E-01	-0.010166618	9
0	11	1.84E-01	0	11
0	9	2.12E-01	0	9
0	11	1.84E-01	0	11
0	9	2.12E-01	0	9
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-0.01825379	11	2.15E-01	0	11
-0.785408979	9	6.92E+01	-1	9
-0.017863929	20	1.26E-01	0.734694953	20
-0.225757188	9	1.12E+00	1	9
-0.010314287	9	2.29E-01	0.033458964	9
-0.014647775	36	4.52E-02	0.078117721	36
-0.128501904	12	5.69E-01	-0.096398172	12
-0.000981135	6	2.63E-01	0.000128334	6
0.051136664	6	1.99E-01	0.005893736	6
0.01005551	3	3.13E-01	0.003412295	3
0	4	3.02E-01	0.064181944	4
-0.217348546	9	1.05E+00	-0.130246072	9
-0.081552611	24	2.98E-01	0.114530973	24
-0.10840463	7	4.71E-01	-0.151033209	7
0.032128618	4	2.65E-01	-0.063015973	4
-0.216799225	7	9.08E-01	-0.099529399	7
-0.583948351	3	2.41E+00	-0.238145006	3
0.030119318	7	2.03E-01	0.074190492	7
-0.723017532	5	8.71E+00	0.317112279	5
-0.137814107	3	5.20E-01	0.042507892	3
-0.083910337	17	3.47E-01	1	17
-0.016309746	7	2.69E-01	-0.017982706	7
0.120715105	10	7.49E-02	0.135816814	10
-0.005545512	5	2.89E-01	0.030712243	5
-0.398887894	8	3.31E+00	-0.032890035	8
-2	6	1.47E+03	-1	6
-2	5	1.43E+04	-2	5
-1	7	1.99E+02	-0.790182746	7

-0.156423592	2	5.37E-01	-0.075362449	2
-0.151716631	6	5.95E-01	-0.007263048	6
-0.0392536	6	3.24E-01	-0.028744764	6
-0.177471416	4	6.24E-01	-0.122484763	4
-0.044475135	17	2.11E-01	-0.184711821	17
-0.021296725	12	2.09E-01	0.013023737	12
0	3	3.24E-01	0	3
0	1	3.73E-01	0	1
-0.153697972	13	7.41E-01	0.128151796	13
-0.173406585	11	8.29E-01	0.112124954	11
-0.012629886	14	1.70E-01	0.288149169	14
-0.022764521	11	2.24E-01	0.058490863	11
-0.155948341	26	1.14E+00	-0.020960701	26
-0.576583808	13	5.07E+01	-0.559651569	13
0	3	3.24E-01	-0.002021817	3
0.084822803	5	1.88E-01	1	5
0	2	3.48E-01	0	2
-0.4617186	8	5.05E+00	-0.460441282	8
-0.935516526	12	1.06E+03	-0.53895863	12
0.492853539	12	1.72E-03	-0.782053749	12
-0.008847541	13	1.74E-01	-0.04079218	13
-0.206991028	8	9.13E-01	-0.365440133	8
1	4	2.27E-03	-0.237720982	4
1	9	3.59E-05	-2	9
0.098506526	3	2.31E-01	-0.141566876	3
0.681428511	5	1.11E-02	-1	5
-0.185680432	3	6.13E-01	-0.619300848	3
-0.191075402	9	8.66E-01	-1	9
-0.384970734	12	6.23E+00	-0.968816461	12
-0.512182074	10	1.20E+01	-0.869635666	10
-0.031356157	3	3.61E-01	-0.640645708	3
0.043293652	32	1.57E-02	-0.238112926	32
-0.140873915	3	5.26E-01	-0.031314926	3
0.043824938	13	1.03E-01	0	13
-0.190485049	26	2.16E+00	-0.070385174	26
-0.031894178	20	1.55E-01	0.002083012	20
-0.166897774	12	8.14E-01	-0.006159502	12
-0.011093531	3	3.37E-01	-0.102209145	3
-0.018989447	1	3.89E-01	0	1
-0.068273777	11	3.33E-01	-0.095412678	11
-0.014751601	7	2.67E-01	0.191821728	7
-0.735697002	9	4.80E+01	-0.174741319	9
0.41891207	18	4.32E-04	0.026124593	18
0	2	3.48E-01	0	2
0	2	3.48E-01	0	2
-0.082898057	10	3.84E-01	-0.128229371	10
-0.058738438	2	4.09E-01	-0.008535404	2

-0.405850261	5	1.93E+00	-0.13591605	5
0.052079186	3	2.71E-01	-0.349133515	3
-0.559924918	6	5.40E+00	-1	6
-0.578847014	17	1.78E+02	-0.623659407	17
-0.260816254	24	6.51E+00	-0.000835864	24
1	18	1.01E-07	0.055770217	18
-0.757783769	7	2.41E+01	-0.771687893	7
-0.224832623	26	4.08E+00	-0.251634313	26
-0.106648846	10	4.65E-01	-0.181702183	10
-0.186023858	12	9.73E-01	-0.01448951	12
-0.017625691	9	2.41E-01	0.002117091	9
0.40619939	11	5.41E-03	0.055439401	11
0	3	3.24E-01	0.040512985	3
0.062745005	7	1.67E-01	-0.083795768	7
-0.166822531	12	8.13E-01	1	12
-0.425044344	27	2.05E+02	2	27
-0.124507768	84	1.19E+00	-0.744968997	84
-1	5	5.08E+01	0.116267794	5
-0.02859626	9	2.62E-01	-1	9
1	13	2.84E-06	-1	13
0.907320593	12	3.59E-05	-1	12
-0.300125326	5	1.17E+00	-1	5
1	9	4.48E-06	-1	9
-0.730072236	16	7.99E+02	-0.484923216	16
-0.01852971	48	2.47E-02	0.014210999	48
0	2	3.48E-01	0	2
-0.110957874	10	4.81E-01	-0.186548677	10
0.071640284	2	2.85E-01	-0.001437368	2
0.000472345	2	3.47E-01	0	2
0.132637243	9	7.97E-02	-0.250706911	9
-0.452585498	6	3.02E+00	-0.107679831	6
-0.158180094	13	7.75E-01	-0.386167413	13
-0.503587245	7	5.16E+00	-0.518264891	7
-0.126575142	7	5.26E-01	-0.2836085	7
0	2	3.48E-01	-0.03825494	2
-1	12	4.00E+04	-0.707234133	12
0.401652262	14	2.06E-03	0.190589543	14
0.176486739	2	2.13E-01	0.180675262	2
0.028268762	10	1.57E-01	0.017066631	10
-0.107603559	8	4.68E-01	0.769034462	8
0.014066164	14	1.28E-01	0.517070135	14
-0.077544808	6	3.98E-01	-0.029157918	6
0.364745453	4	6.78E-02	0.270604895	4
-0.012698347	9	2.33E-01	0.196381528	9
0.719163975	5	9.24E-03	1	5
-0.321869568	14	4.58E+00	-0.121384059	14
-0.933117347	11	6.06E+02	0.412040804	11

-0.094544784	2	4.52E-01	0.082614714	2
-0.23098401	3	7.17E-01	0.087168853	3
-0.052668948	16	2.42E-01	-0.005371303	16
-0.02602618	8	2.71E-01	0.121366468	8
-0.521823353	12	2.24E+01	-0.103590779	12
-0.963016191	40	8.99E+09	0.432393781	40
-1	11	3.50E+04	0.815021384	11
-0.119685709	5	4.96E-01	0	5
-0.647572401	4	4.28E+00	-0.405111688	4
-0.449713955	17	3.50E+01	2	17
-0.355341339	5	1.52E+00	-0.056167098	5
-0.092502867	21	3.71E-01	0.447718466	21
-0.002285613	8	2.31E-01	0.089036091	8
-1	2	7.19E+00	0.440234244	2
-0.248840313	50	5.84E+01	0.649560985	50
-0.21656463	25	3.26E+00	-0.222358032	25
0.166163018	88	4.25E-08	0.42876959	88
-0.752580814	97	7.61E+17	0.73138283	97
-0.201970768	11	1.06E+00	0.413046521	11
-0.219621257	43	1.29E+01	-0.004950857	43
-0.114995728	6	4.88E-01	0.110486831	6
0.205176236	8	5.73E-02	-0.016058454	8
0	4	3.02E-01	0	4
-0.107116448	11	4.66E-01	-0.217865313	11
0.002472917	3	3.21E-01	-0.092696898	3
0	7	2.44E-01	8.50E-05	7
0	3	3.24E-01	0	3
-0.490292856	12	1.67E+01	-0.283618262	12
-0.048862059	1	4.14E-01	-0.030071966	1
-2	3	2.46E+02	-0.477184853	3
-0.020147093	36	5.19E-02	0.038818361	36
-0.055388757	31	1.49E-01	-0.035177566	31
-0.036206969	28	1.13E-01	-0.014694355	28
-0.315495161	5	1.26E+00	-0.242568617	5
-0.121768035	21	5.79E-01	-0.090632933	21
-0.480820971	10	9.36E+00	0.201431733	10
-0.935038731	3	8.06E+00	-0.789593012	3
-0.166207397	13	8.40E-01	1	13
-1	38	1.46E+10	-0.554767063	38
-0.031735717	22	1.40E-01	-0.103320203	22
0.062551175	10	1.19E-01	0.063344852	10
-0.213288201	14	1.44E+00	0.056397498	14
0.58342779	5	1.76E-02	-0.172463782	5
0.029568804	2	3.20E-01	-0.000795821	2
-0.295463376	5	1.14E+00	0.031334376	5
-0.464995527	9	6.52E+00	-0.187109322	9
-0.174383082	4	6.16E-01	-0.175075063	4

-0.086801803	4	4.31E-01	-0.418833995	4
-0.489030688	21	1.56E+02	0.005210128	21
-0.437871594	4	1.81E+00	-0.067154187	4
-0.007122169	4	3.11E-01	-0.056961599	4
-0.181413975	11	8.88E-01	-0.16331378	11
-0.030118634	4	3.41E-01	-0.027140175	4
-0.22438963	6	8.81E-01	-0.058915239	6
-0.060768347	22	2.22E-01	-0.033631958	22
0.004678093	7	2.37E-01	0.003861415	7
-1	1	6.41E+00	-0.978354423	1
-0.153577866	24	1.03E+00	0.276717967	24
-0.697626129	16	5.42E+02	-0.810823045	16
-0.420652288	5	2.07E+00	-0.782575166	5
-0.616487568	27	8.03E+03	-0.767018667	27
-0.04279663	23	1.60E-01	0.023418072	23
-0.072655181	18	2.94E-01	-0.006775523	18
0.234375421	34	1.38E-04	-0.103141649	34
0	3	3.24E-01	0	3
0.902559703	15	5.14E-06	0.740220992	15
1	5	4.99E-04	0.510589391	5
0	1	3.73E-01	0	1
-1	12	8.63E+04	-0.520808258	12
0.291729437	7	4.17E-02	-0.334913255	7
-0.068687367	22	2.51E-01	-0.028848045	22
0.014135062	43	1.25E-02	-0.025290024	43
0.195723195	6	9.10E-02	-0.051200713	6
1	2	6.88E-03	-0.100734969	2
1	7	1.20E-04	0.441944725	7
-0.034745726	12	2.37E-01	-0.067903299	12
-0.091193417	7	4.24E-01	-0.045976258	7
0.452811953	47	6.46E-09	0.004825367	47
-0.147868263	13	6.99E-01	-0.297310026	13
-0.187087267	60	1.18E+01	-0.355324004	60
-0.222583803	18	2.15E+00	-0.376557189	18
-0.914722391	8	1.06E+02	-1	8
-0.232922792	4	7.83E-01	-0.172658592	4
-0.382172507	4	1.44E+00	-0.299620913	4
-0.431543528	12	9.63E+00	0	12
0	3	3.24E-01	0	3
-0.877470388	35	6.76E+07	-0.83607406	35
0.046840543	6	2.03E-01	-0.046876852	6
-0.538895012	5	3.63E+00	0.534714739	5
-0.049004032	54	5.33E-02	-0.018468031	54
0.194053553	5	1.12E-01	-0.219415523	5
0	4	3.02E-01	0.041779764	4
-0.01645256	4	3.23E-01	-0.013142746	4
0	1	3.73E-01	-0.017124786	1

0	1	3.73E-01	-0.363538256	1
0	1	3.73E-01	-0.017864751	1
-0.215227404	10	1.11E+00	-0.167051916	10
0	11	1.84E-01	0	11
0	1	3.73E-01	0	1
-0.533071759	5	3.54E+00	-0.395377137	5
-1	3	1.25E+01	-0.376942147	3
0.234929944	10	2.99E-02	-0.061560182	10
-0.062749252	2	4.14E-01	0.006605799	2
-1	7	1.58E+03	-0.436335476	7
-1	4	4.25E+01	-0.537256229	4
-0.138260016	2	5.11E-01	-0.073573959	2
0.314354943	10	1.58E-02	-0.061130663	10
-0.124552005	3	4.97E-01	-0.000608826	3
0.282709618	5	7.34E-02	0.673440782	5
0.760469842	2	4.19E-02	0.210655556	2
-0.210854572	13	1.31E+00	0.172780043	13
0.366493564	39	1.26E-06	0.741414341	39
0.31887652	14	4.99E-03	-0.120463172	14
-0.072464758	4	4.06E-01	-0.221809754	4
-0.223011117	7	9.43E-01	-0.095459265	7
-0.288067382	18	5.12E+00	0.116229741	18
-0.063629711	27	2.01E-01	0.01276401	27
-0.340418152	5	1.42E+00	0.214653414	5
-0.128474288	3	5.04E-01	-0.032050398	3
-1	4	1.28E+02	-0.187368444	4
-0.004903266	5	2.88E-01	0.00270621	5
-0.020859969	2	3.68E-01	-0.002000596	2
-0.098081381	7	4.42E-01	-0.010624335	7
-0.848145672	9	1.10E+02	-0.173481967	9
-0.108256534	8	4.70E-01	-0.09207968	8
-0.224788509	5	8.18E-01	0.653774979	5
-0.136380994	4	5.27E-01	-0.009694778	4
-0.069831823	4	4.02E-01	-0.078910824	4
0.115062274	10	7.84E-02	0.083094118	10
-0.14147457	20	7.65E-01	-0.547469716	20
-0.038733652	1	4.05E-01	-0.050091247	1
-0.13778654	13	6.32E-01	-0.015552479	13
-0.223169814	3	6.98E-01	-0.028700762	3
0.090547193	3	2.37E-01	-0.023315997	3
0.34104028	3	1.00E-01	-0.140620663	3
1	4	7.02E-04	-0.330316154	4
1	10	3.21E-06	-0.327987371	10
0.042379878	8	1.71E-01	-0.202120827	8
-0.336859102	14	5.37E+00	-0.349850423	14
-0.680651942	12	9.86E+01	-0.829276931	12
-0.470208134	13	1.75E+01	-0.439679998	13

-0.283075234	2	7.64E-01	-0.146337742	2
-0.369115774	5	1.62E+00	-0.545107113	5
-1	5	1.47E+02	-2	5
-0.585480488	22	9.27E+02	-1	22
1	6	3.06E-04	-2	6
0.97786738	4	5.51E-03	-0.615314336	4
1	8	1.15E-04	-0.228120006	8
2	4	1.92E-04	-0.599702708	4
0.022372727	5	2.53E-01	-0.048721374	5
0.031958555	4	2.65E-01	0.007199615	4
0.63604341	6	8.42E-03	0.01250655	6
-0.200011006	28	2.91E+00	-0.178456882	28
-0.104034056	34	4.27E-01	-0.076419542	34
-0.119800272	9	5.12E-01	0.101218058	9
0.653070032	5	1.26E-02	0.467348027	5
0.637120965	5	1.36E-02	0.505503416	5
-1	5	4.05E+01	-0.939312079	5
-0.54540975	12	2.79E+01	-0.294807887	12
-0.610134794	7	9.84E+00	-0.918419809	7
-0.27436418	15	3.08E+00	-0.893366105	15
-0.177573872	9	7.84E-01	0.011296228	9
-0.258261689	3	7.87E-01	-0.517826917	3
-0.304286789	17	5.58E+00	-0.30467727	17
-0.00555954	6	2.70E-01	0.014217284	6
-0.246812565	36	1.52E+01	-0.324047164	36
-0.313655799	8	1.87E+00	-0.23652241	8
-0.464804848	30	8.85E+02	2	30
-0.186240238	1	5.55E-01	0.126920771	1
-0.079557105	8	3.88E-01	0.040765771	8
-0.194882976	12	1.06E+00	-0.687839686	12
1	7	7.03E-05	-0.461044121	7
-0.142621587	3	5.29E-01	0.026022403	3
-0.504827129	15	4.17E+01	1	15
0.886190756	90	3.68E-27	0.879634631	90
0.018849745	18	8.72E-02	-0.051727571	18
-2	9	1.20E+06	-1	9
-0.046732291	2	3.96E-01	-0.054515308	2
-0.030020059	3	3.59E-01	-0.012575555	3
-0.093149781	14	4.01E-01	-0.488561404	14
-0.240481424	8	1.14E+00	-1	8
-0.375091441	26	6.59E+01	-0.331622728	26
0.039910852	70	4.26E-04	0.773861182	70
-0.001098128	3	3.25E-01	-0.000154176	3
-0.644748287	11	4.96E+01	-0.160444566	11
-0.343120897	9	2.66E+00	0.047870069	9
-0.355877961	8	2.48E+00	-0.199260761	8
-0.216595165	18	1.98E+00	-0.187689094	18

-0.028942399	1	3.97E-01	-0.066809469	1
-0.258333522	9	1.42E+00	-0.829089843	9
0.079888379	15	5.62E-02	0.025589879	15
0.054013883	72	1.77E-04	-0.106675137	72
-0.493474524	12	1.72E+01	-0.332067133	12
0.692293551	17	1.94E-05	-0.291964793	17
0.272252906	6	6.01E-02	0.079957175	6
1	7	3.19E-04	-1	7
-0.041061416	12	2.51E-01	-0.089309201	12
-0.561507832	30	6.83E+03	-0.815502768	30
0.00216999	6	2.59E-01	0.02790451	6
0.694489436	12	2.62E-04	0.576887111	12
-0.552044135	8	9.26E+00	-1	8
-2	3	4.33E+02	-1	3
-0.591228027	4	3.39E+00	0	4
-0.73036432	4	6.00E+00	-0.560318197	4
-0.453220331	1	9.79E-01	-0.813428756	1
-0.446802484	4	1.88E+00	-0.473855667	4
0.620088248	11	8.44E-04	-0.236565473	11
0.001461323	3	3.22E-01	-0.017222244	3
0.438442905	8	1.20E-02	0.356961944	8
2	13	6.87E-09	3	13
-0.453220331	1	9.79E-01	0.004587362	1
-0.027066091	29	8.95E-02	1	29
-0.061504803	3	4.00E-01	-0.024613852	3
-0.11836626	6	4.97E-01	-0.346483309	6
0.184767258	5	1.17E-01	0.057644013	5
0.025320502	11	1.48E-01	3.17E-06	11
-0.068203638	8	3.59E-01	0.112465735	8
0	3	3.24E-01	0.097425574	3
0.344231765	5	5.48E-02	0.615568513	5
-0.003047316	7	2.49E-01	-0.686997756	7
-0.230956378	2	6.61E-01	-0.430388198	2
-1	4	1.94E+01	-0.893947646	4
-1	10	8.29E+02	-0.545806146	10
0.21518572	9	4.34E-02	-0.001668416	9
-0.589479123	8	1.19E+01	0.059965478	8
-0.731790862	6	1.37E+01	-0.316262563	6
-0.017800869	2	3.65E-01	-0.027701769	2
0	2	3.48E-01	-0.074343006	2
-0.782652093	1	1.97E+00	-0.225695944	1
-0.581890569	4	3.27E+00	-0.448924813	4
-1	8	2.91E+03	-1	8
-0.971902585	8	1.55E+02	-0.899742947	8
-0.086627162	3	4.36E-01	-0.395148003	3
-1	14	1.34E+04	-1	14
-0.41768956	5	2.04E+00	-0.651013022	5

-0.56817604	6	5.65E+00	-0.780679372	6
-0.497599727	8	6.43E+00	-0.211628382	8
-0.563695669	8	1.00E+01	-0.160677647	8
-1	5	7.62E+01	-0.612563317	5
0.349887149	6	3.95E-02	-0.713047154	6
0.261081627	7	5.02E-02	-0.174548981	7
-0.460350328	2	1.25E+00	-0.237865027	2
-0.021514391	3	3.49E-01	-0.009066522	3
0	4	3.02E-01	-0.571262566	4
0	4	3.02E-01	-0.063449355	4
-0.619523498	4	3.81E+00	-0.195233004	4
-0.409625892	4	1.61E+00	-0.474142331	4
0.22927986	18	5.35E-03	-0.099682519	18
-0.325015347	5	1.32E+00	0.261517463	5
-0.177727962	7	7.17E-01	0.012874468	7
0.097073077	5	1.77E-01	0.164186012	5
0.456332069	22	5.98E-05	0.904228327	22
-0.430821246	8	4.10E+00	0.237092007	8
0.107297798	12	6.29E-02	-0.039110095	12
-0.074490139	12	3.43E-01	-0.291002131	12
0.040551978	7	1.91E-01	-0.189873202	7
0.243397772	22	1.76E-03	0.171554408	22
-0.416536994	8	3.73E+00	-0.837078235	8
-0.156037099	12	7.35E-01	-0.137341954	12
-1	4	5.10E+01	-0.214927392	4
-0.273780034	6	1.15E+00	0.041762989	6
-0.114942264	5	4.85E-01	-0.27399449	5
-0.268116815	35	2.34E+01	-0.201653236	35
-0.041877634	8	3.01E-01	-0.041408965	8
-0.566372921	2	1.68E+00	-0.144347214	2
0.181737039	2	2.10E-01	-0.213660553	2
-0.219660816	13	1.43E+00	-0.433260606	13
0.957520162	10	9.07E-05	-0.851042198	10
2	16	6.82E-11	0.085192893	16
-0.206923494	31	4.05E+00	2	31
-0.082803179	21	3.20E-01	2	21
-0.627220425	3	2.80E+00	0.429647932	3
0.221822032	12	2.16E-02	0.413090356	12
-0.030732164	1	3.98E-01	0.061599472	1
-0.120335407	6	5.02E-01	-0.44923237	6
-0.50755689	33	4.79E+03	0.761120615	33
0.049146893	10	1.33E-01	-0.005422132	10
0.111402439	15	3.93E-02	0.06499826	15
-0.064030746	6	3.70E-01	-0.000686788	6
-0.707563557	4	5.47E+00	-0.083320218	4
-0.304467589	6	1.36E+00	0.122717436	6
-0.017036572	1	3.87E-01	0.009338865	1

-0.011553407	10	2.17E-01	0.067819607	10
0.259732305	10	2.45E-02	0.019327983	10
-0.2868646	9	1.75E+00	-0.199424022	9
-0.923961782	10	3.28E+02	-0.330680528	10
-0.079200125	26	2.76E-01	-0.034634674	26
-0.131707955	18	6.43E-01	-0.522016256	18
-0.327307493	13	4.20E+00	-0.399227014	13
0.42399372	17	5.72E-04	0.521631511	17
-0.440839396	13	1.31E+01	0.001457247	13
-0.444873679	14	1.70E+01	-0.834708475	14
-0.47186808	9	6.86E+00	-0.310303638	9
-0.304967512	8	1.76E+00	-0.136287564	8
0.276022879	23	8.17E-04	-0.303496743	23
-0.660526599	6	9.30E+00	-0.202853127	6
-0.660730504	25	9.09E+03	-0.84218204	25
-0.608591083	4	3.64E+00	0.233600445	4
-0.039196715	4	3.54E-01	-0.535111179	4
-0.873719156	10	2.19E+02	-0.854621822	10
0.607659229	2	6.41E-02	-0.234108179	2
-0.105547571	23	4.51E-01	-0.128017358	23
-0.596222182	15	1.17E+02	-0.385574127	15
-0.749212101	13	2.85E+02	-0.648961108	13
-0.130508226	4	5.15E-01	0.126113538	4
-0.933693295	14	3.09E+03	1	14
-0.322094705	16	6.08E+00	-0.743337168	16
-0.825687418	13	6.11E+02	-0.94303347	13
0.916747665	15	4.38E-06	0.520437551	15
-0.330294176	11	3.23E+00	-0.962580775	11
-0.777250908	12	2.43E+02	-0.951144648	12
-0.162604682	6	6.31E-01	-0.13836603	6
-0.29141611	5	1.12E+00	-0.308600489	5
-1	15	1.34E+05	-1	15
-0.785017647	1	1.98E+00	-0.147263093	1
-0.989045655	1	3.06E+00	-0.8878276	1
-0.865862391	3	6.36E+00	-2	3
-0.194999876	6	7.51E-01	-0.044012255	6
-1	2	1.09E+01	0.174603922	2
-0.516628786	1	1.12E+00	-0.533839594	1
-0.676798652	3	3.32E+00	-0.199155749	3
0.772562682	3	2.27E-02	-0.342038563	3
-0.151843048	2	5.31E-01	-0.010466976	2
-0.014130268	1	3.85E-01	0	1
0	3	3.24E-01	-0.003665945	3
0	1	3.73E-01	-0.004799494	1
0	3	3.24E-01	-0.175521816	3
-0.6325751	3	2.85E+00	-0.359637902	3
-0.622786234	4	3.86E+00	-0.996816273	4

-0.139233217	1	5.02E-01	-0.059554272	1
-0.623868233	5	5.44E+00	-0.187752499	5
0.906761765	12	3.60E-05	-0.892882766	12
-0.780872974	9	6.69E+01	-0.367074428	9
-0.722922301	18	1.64E+03	-0.292812603	18
-1	9	4.14E+03	-0.585756795	9
-0.265479606	3	8.07E-01	-0.058224182	3
-0.195826802	2	6.00E-01	-0.262783639	2
-0.122946954	10	5.29E-01	-0.310389855	10
-0.809878059	8	5.23E+01	-0.995247972	8
-0.300353359	7	1.51E+00	-0.157273483	7
-0.383222378	5	1.74E+00	-0.821225438	5
0.027969608	5	2.46E-01	-0.147152098	5
-0.655803012	12	7.82E+01	-0.772541532	12
-1	7	1.13E+02	-0.537069907	7
-1	9	1.15E+03	-0.418380984	9
-0.122721215	5	5.04E-01	-0.263856561	5
-0.096893976	4	4.49E-01	-0.088327038	4
-0.992534281	103	1.48E+26	-0.588739896	103
-1	4	2.89E+01	-0.338599129	4
-0.066597753	4	3.96E-01	-0.042189729	4
-0.515364109	2	1.46E+00	-0.187404617	2
-0.198666582	1	5.69E-01	-0.122609815	1
-0.43134467	5	2.18E+00	0.857590062	5
-0.107603777	77	4.60E-01	0.791798901	77
-1	13	7.02E+04	-1	13
-0.156737471	11	7.17E-01	0.202999513	11
-1	16	6.62E+04	-0.146893251	16
0.412305815	3	7.85E-02	-0.021701899	3
-0.340460652	4	1.22E+00	-0.708198253	4
-0.470784893	7	4.23E+00	-0.368788654	7
-0.058665088	2	4.09E-01	-0.517458083	2
-0.879122996	33	2.56E+07	-0.80197044	33
-0.406537262	2	1.08E+00	-0.338534478	2
-0.763872499	4	6.88E+00	-0.5020724	4
-0.120853928	2	4.87E-01	-0.207439184	2
-0.790258699	4	7.67E+00	-0.555262169	4
-0.388250316	4	1.48E+00	-1	4
-0.361626499	3	1.12E+00	-0.23183399	3
-0.010149536	17	1.37E-01	0.049575065	17
-0.147134399	5	5.65E-01	0.104720562	5
-0.383396238	3	1.21E+00	0.126003689	3
-0.796774081	5	1.24E+01	0.129373743	5
0.067242399	2	2.88E-01	-0.524575043	2
-0.427055478	3	1.41E+00	-0.645383508	3
-0.347165228	5	1.46E+00	-1	5
-0.431334901	12	9.61E+00	-0.252784144	12

0.739576338	5	8.39E-03	-0.551001975	5
-0.39562186	8	3.24E+00	-0.707473458	8
-0.358246923	7	2.14E+00	-0.395461903	7
-0.873820688	1	2.39E+00	-0.717911431	1
-0.625116655	3	2.78E+00	-0.466586444	3
-0.945314377	5	2.50E+01	-0.673835125	5
-0.131903642	5	5.26E-01	-1	5
-0.490703047	3	1.75E+00	-0.652336007	3
-0.247376041	6	9.97E-01	-0.562521183	6
-1	7	1.08E+02	-0.38802005	7
-0.651959089	6	8.88E+00	-0.333032044	6
-0.231548207	2	6.62E-01	-0.312027	2
0.371595342	9	1.37E-02	-0.654618274	9
0.242789609	22	1.78E-03	-2	22
-0.033523409	16	1.93E-01	-0.864870743	16
-0.587512117	4	3.34E+00	-0.303777507	4
-0.001697159	3	3.26E-01	0.006874478	3
-0.055943885	5	3.67E-01	0.255761813	5
-0.812706801	6	2.12E+01	0.118503152	6
-0.226233928	2	6.53E-01	0.116853646	2
0.080077985	3	2.46E-01	-0.668814038	3
-0.635244964	3	2.88E+00	-0.802040714	3
-0.031534804	2	3.80E-01	-0.032483578	2
-0.633146455	14	1.26E+02	-0.267901939	14
-0.320686822	43	2.58E+02	0.350275489	43
-0.195066904	6	7.52E-01	-0.524769347	6
-0.037744311	10	2.67E-01	-0.455592299	10
-0.946483651	4	1.45E+01	-0.58155877	4
-0.724424929	8	2.95E+01	-0.478539643	8
-0.782951566	7	2.81E+01	-0.808532793	7
-0.86255654	7	4.54E+01	0.645069664	7
-1	5	6.46E+01	-0.171143347	5
0.159162068	44	1.43E-04	0.064494367	44
-1	6	9.12E+01	-0.61356435	6
-0.056234555	1	4.21E-01	-0.007929013	1
-0.920011837	3	7.66E+00	-0.391494721	3
0	1	3.73E-01	-0.009365982	1
-0.082992708	3	4.31E-01	-0.072112371	3
-2	3	6.89E+01	-1	3
-0.068761884	7	3.70E-01	-0.077801315	7
0.355424177	21	4.03E-04	-0.549072777	21
0.015374086	5	2.61E-01	-0.098113115	5
-0.348527165	2	9.17E-01	-0.575417091	2
-0.027815996	3	3.56E-01	-0.613135035	3
-0.106418809	1	4.68E-01	-0.66818792	1
-0.509394915	4	2.43E+00	-1	4
-0.420408007	16	1.97E+01	-0.525064282	16

-0.081718285	2	4.36E-01	-0.076038678	2
-0.491106627	10	1.02E+01	-0.257754247	10
0.027328013	35	1.73E-02	-0.338320204	35
-0.399307713	18	2.24E+01	-0.147104787	18
0.154891616	18	1.43E-02	-0.257832761	18
-0.619240783	14	1.09E+02	-0.578971992	14
-0.564506461	22	6.64E+02	-0.79222172	22
-0.149255562	10	6.54E-01	-0.168408052	10
-0.074533705	10	3.59E-01	-0.052268014	10
-0.098525782	12	4.30E-01	-0.056692789	12
-0.565482285	7	7.51E+00	0.191186248	7
0.278848752	3	1.24E-01	-0.307198021	3
0.142081844	120	9.32E-10	0.008658675	120
0.869665325	11	9.67E-05	0.197661338	11
2	8	1.47E-07	2	8
-1	18	3.95E+06	-1	18
-0.190172331	60	1.34E+01	-0.41065959	60
0.145753809	1	2.74E-01	-0.099826195	1
-0.259498144	2	7.16E-01	-2	2
-0.340122318	13	4.78E+00	-0.454484399	13
-0.004049253	9	2.18E-01	-0.431007604	9
-2	12	1.15E+06	-1	12
-1	6	8.06E+02	-1	6
-0.740742242	8	3.29E+01	-0.874013369	8
-2	6	4.72E+04	-2	6
-1	4	5.54E+01	-1	4
-0.399735733	17	1.86E+01	-0.078137094	17
0.569314024	5	1.88E-02	0.379296684	5
0.301282545	4	8.79E-02	-0.084680296	4
-0.24256448	25	5.19E+00	-0.365688397	25
0.085850278	2	2.74E-01	-0.239894853	2
0	1	3.73E-01	-0.193189757	1
-0.193790085	7	7.90E-01	-0.600327898	7
-0.032211066	8	2.82E-01	-0.594173337	8
-0.709981576	23	9.95E+03	-0.611538095	23
2	3	9.74E-04	-0.580390613	3
0.145666783	4	1.66E-01	-0.034200543	4
2	4	5.84E-04	-0.090172712	4
-0.236946404	35	1.09E+01	1	35
0.049928091	6	2.00E-01	0.390846064	6
-0.363718198	9	3.09E+00	-0.051466256	9
0.503830039	2	8.56E-02	-0.304490087	2
0.298333433	9	2.35E-02	-0.509620931	9
-0.148978755	7	6.02E-01	-0.414468838	7
-0.245205414	11	1.55E+00	-0.062797973	11
0.045208581	5	2.27E-01	-0.486787235	5
-0.111837259	4	4.77E-01	-0.222311968	4

0.169838642	17	1.41E-02	1	17
1	10	5.58E-05	-0.246436318	10
0.236463111	11	2.36E-02	-0.25456399	11
0.451184971	8	1.10E-02	-0.823880143	8
0.101669014	6	1.51E-01	-1	6
-0.535757884	52	1.89E+06	0.926538557	52
-0.00984667	4	3.14E-01	-0.119024411	4
-0.640968484	19	7.85E+02	-2	19
0.259803942	19	2.80E-03	-1	19
1	9	8.91E-06	-0.542953824	9
1	6	3.27E-04	-1	6
-0.224477404	60	5.44E+01	-0.375648291	60
-0.565259577	5	4.12E+00	-0.31532484	5
-2	5	1.12E+03	-2	5
-1	15	3.19E+05	-1	15
-2	4	2.51E+02	-0.618095331	4
2	5	1.47E-04	1	5
0.143942638	6	1.20E-01	0.808531313	6
-1	8	4.72E+02	0.803119229	8
-0.564014209	7	7.44E+00	0.032726302	7
-0.284597848	2	7.68E-01	0.323200234	2
-0.036352157	1	4.03E-01	0.176877882	1
0.296182177	21	9.94E-04	0.705743302	21
-0.716486474	9	4.16E+01	1	9
-0.241384461	8	1.15E+00	2	8
-0.958154818	21	1.98E+05	-1	21
-0.902407016	11	4.64E+02	-0.978812327	11
-0.225652745	10	1.21E+00	-0.210768608	10
0.281221722	40	9.80E-06	0.403437251	40
0.095317303	18	3.16E-02	0.189553826	18
-0.067526337	11	3.30E-01	-0.27858713	11
-0.488167449	12	1.63E+01	0.084797436	12
-2	5	2.23E+03	0.438186697	5
-0.909778638	7	6.05E+01	-2	7
0.137494409	16	2.49E-02	0.005718548	16
-0.168430965	10	7.63E-01	-0.129114609	10
0.883181407	6	2.21E-03	-0.597410459	6
1	6	9.23E-05	0.136544174	6
1	5	1.52E-03	0.789628858	5
-2	6	4.89E+03	0.101992752	6
-1	4	3.12E+01	-1	4
-1	8	1.47E+03	-0.286625521	8
-0.828035839	3	5.58E+00	-0.426930074	3
1	3	5.62E-03	0.268937825	3
-1	8	6.59E+02	-1	8
-1	11	1.68E+03	-1	11
-0.844388729	2	3.64E+00	-1	2

-0.590889251	10	2.26E+01	-0.294668038	10
-0.953245124	8	1.37E+02	-0.530555771	8
-0.761726347	7	2.47E+01	-0.857067244	7
-0.522384318	13	2.95E+01	-0.257516189	13
0.287963543	12	1.16E-02	-0.691862234	12
-0.064085585	12	3.12E-01	-0.892299146	12
-0.262544115	36	2.26E+01	0.14856421	36
-0.418170578	9	4.62E+00	-0.244096805	9
0.33502747	14	4.20E-03	0.183412315	14
-1	3	1.08E+01	-0.825849718	3
-0.548626396	8	9.05E+00	-0.425912319	8
0.133142626	6	1.28E-01	-0.124819043	6
0.179748519	6	9.92E-02	0.858866178	6
-0.697316787	8	2.46E+01	-1	8
-0.261339609	6	1.08E+00	-0.363946426	6
0.478680211	8	9.13E-03	-0.391268434	8
-0.312247182	3	9.48E-01	-0.117243303	3
-0.247111584	38	1.84E+01	-0.279482138	38
-0.278561404	6	1.18E+00	-0.309405525	6
-0.214511757	5	7.79E-01	-0.45815689	5
-0.005005462	3	3.30E-01	-0.143270062	3
-0.36794906	6	1.91E+00	-0.01948213	6
-0.270431948	10	1.73E+00	-0.200133912	10
-0.60922346	8	1.36E+01	-0.690334555	8
-0.490493053	5	2.89E+00	-0.462473534	5
0.168423275	8	7.34E-02	-0.370532207	8
0.100180426	7	1.33E-01	-0.445926977	7
0	1	3.73E-01	-0.020525485	1
0	3	3.24E-01	-0.12597735	3
-0.047004133	10	2.88E-01	-0.666265196	10
-0.120708656	4	4.95E-01	-0.102444858	4
-0.688212762	8	2.31E+01	-0.307666413	8
-0.92973267	7	6.83E+01	-0.575247661	7
0.102112326	3	2.28E-01	-0.600576501	3
-0.18860264	3	6.20E-01	-0.131167373	3
-0.171019559	2	5.60E-01	-0.104354211	2
1	4	6.71E-04	-0.162462779	4
-0.210680564	10	1.07E+00	-0.770399169	10
0.055420928	5	2.16E-01	-0.12183219	5
-0.290163984	7	1.42E+00	-0.374335788	7
-0.37044385	5	1.63E+00	-0.398999993	5
-0.652591781	11	5.31E+01	-0.694567654	11
-0.01657146	11	2.12E-01	-0.072922175	11
-0.852861379	7	4.29E+01	-0.59500964	7
-1	6	1.36E+02	-0.190629723	6
0	8	2.27E-01	-0.058511026	8
-1	7	3.52E+02	-1	7

-0.120661745	2	4.86E-01	-0.051680441	2
0.002415387	3	3.21E-01	-0.216784955	3
0	3	3.24E-01	-0.003729048	3
-0.007178085	2	3.55E-01	-0.062893235	2
-1	6	2.22E+02	-1	6
-0.572250443	3	2.32E+00	-0.253550028	3
-0.185144321	5	6.77E-01	-0.408212451	5
0	8	2.27E-01	-0.485325767	8
0	2	3.48E-01	0.188769831	2
0.406372703	8	1.48E-02	-0.974966384	8
-0.028048157	3	3.57E-01	-0.005891787	3
-0.040478536	3	3.72E-01	-0.166844329	3
0.035244319	2	3.15E-01	0.0143625	2
-0.256881245	3	7.83E-01	0.152537885	3
-0.517610737	7	5.62E+00	-0.34688771	7
-0.166926815	6	6.46E-01	0.0780471	6
-0.277414016	10	1.83E+00	-0.230206952	10
-0.559515071	9	1.31E+01	-0.434050942	9
-0.222977708	6	8.74E-01	-0.29942494	6
-1	10	3.04E+04	-0.903719779	10
0.449573575	7	1.60E-02	0.189563197	7
-0.494093961	9	8.08E+00	-0.41404906	9
-0.559463201	4	2.98E+00	-0.840007822	4
-0.646074886	20	1.20E+03	-0.637644916	20
-0.650373799	4	4.32E+00	-1	4
-2	4	2.99E+03	-0.682162975	4
-0.395305247	8	3.23E+00	-0.785203226	8
0	15	1.39E-01	0	15
0	6	2.62E-01	0	6
-0.258194832	10	1.57E+00	-0.480603777	10
0.774775663	11	2.20E-04	1	11
-0.037702501	14	2.22E-01	-0.131794016	14
-0.245346018	3	7.53E-01	-0.084733888	3
-2	9	1.42E+05	2	9
-0.088804679	13	3.88E-01	0.847634795	13
-2	5	1.68E+03	-0.176159479	5
-0.063662177	19	2.53E-01	-0.145824468	19
-0.410909709	57	6.03E+04	0.315163735	57
-1	7	1.24E+02	0.371021217	7
-4	2	1.20E+04	-0.65588211	2
-0.400154778	2	1.06E+00	0.239705954	2
-0.152774042	3	5.48E-01	-0.125160265	3
-0.515077158	4	2.49E+00	-2	4
-0.228613333	5	8.33E-01	-1	5
-1	6	1.01E+02	-0.949294764	6
-0.982087814	8	1.66E+02	-1	8
-1	46	7.61E+15	-1	46

-0.358334357	5	1.54E+00	-1	5
-0.215244698	14	1.47E+00	-0.568454083	14
-1	3	1.89E+01	-0.463312761	3
-0.461051558	27	4.08E+02	-0.582359855	27
-0.947551484	6	4.39E+01	-0.642104737	6
-1	9	2.82E+03	-0.890747201	9
0	2	3.48E-01	-0.010731461	2
0.012870029	6	2.44E-01	-0.002679116	6
-0.484326866	13	2.02E+01	-0.45822352	13
-0.960644573	4	1.54E+01	-0.728293752	4
-0.132457625	2	5.03E-01	-0.152031643	2
-0.886526233	13	1.12E+03	-0.148519106	13
-0.551289983	5	3.85E+00	-0.244628734	5
-0.228492344	7	9.75E-01	-0.071603943	7
0	1	3.73E-01	0	1
0	1	3.73E-01	0	1
0	4	3.02E-01	0	4
0	14	1.49E-01	0.050374742	14
-0.026900145	9	2.58E-01	0	9
0	4	3.02E-01	0	4
0.171850156	10	4.97E-02	-0.229739304	10
0	15	1.39E-01	0	15
-0.797844492	9	7.58E+01	-0.867002736	9
-2	4	4.88E+02	-2	4
-0.061291227	2	4.12E-01	-0.083302602	2
-0.306098168	33	4.56E+01	-0.375078908	33
-1	4	3.24E+01	-0.440335433	4
-0.097810793	7	4.41E-01	-0.153585129	7
0.272212427	9	2.85E-02	-0.799407078	9
0.386745073	9	1.22E-02	-0.406148175	9
0	3	3.24E-01	-0.458836501	3
-0.78330601	5	1.16E+01	-0.345371505	5
-0.940363145	4	1.42E+01	-0.766666652	4
0	1	3.73E-01	-0.017158037	1
-0.32835909	9	2.38E+00	-0.207254257	9
-0.122668457	8	5.18E-01	-0.478914293	8
0.231964817	2	1.82E-01	-0.127705869	2
0.09661674	3	2.32E-01	-0.016045438	3
-0.53608274	4	2.71E+00	-0.706545983	4
-1	12	9.66E+03	-0.921746763	12
1	4	9.76E-04	-0.260003837	4
0.284514567	11	1.56E-02	-0.082320668	11
-0.036410003	5	3.34E-01	-0.008905641	5
0.164723362	8	7.52E-02	0.701353972	8
0.906167019	11	7.05E-05	-0.423874717	11
0.641761289	17	3.67E-05	-0.21483913	17
0.095548014	5	1.79E-01	-0.511917809	5

-0.105971084	10	4.62E-01	-0.902700025	10
-0.590401133	31	1.73E+04	-0.416438416	31
-0.583162939	8	1.14E+01	-0.627225914	8
0.183846049	8	6.62E-02	0.321589887	8
0.55013627	13	6.54E-04	0.945833064	13
0.738076422	17	1.09E-05	0.654617726	17
3	8	7.86E-11	-0.248628973	8
1	6	5.01E-04	-0.216246014	6
-0.102568799	2	4.63E-01	-0.046975197	2
0.869595797	3	1.63E-02	-0.295678894	3
2	4	5.10E-05	-1	4
-0.462033719	9	6.38E+00	-0.513308443	9
0.672666472	6	6.91E-03	-0.031018733	6
-0.131758728	6	5.34E-01	-0.309656292	6
-0.070055005	13	3.21E-01	-0.302121656	13
-0.136438538	3	5.18E-01	-0.255622241	3
-0.063410506	1	4.27E-01	-0.012075794	1
-0.485868776	6	3.62E+00	-0.446936968	6
-0.307230097	6	1.38E+00	-0.442259723	6
-0.275985862	7	1.30E+00	-0.034192958	7
-0.440221183	5	2.27E+00	-0.484463793	5
-0.927503862	8	1.15E+02	-0.604249783	8
-0.186478703	9	8.37E-01	-0.431094346	9
-0.136513692	36	9.60E-01	-0.017809701	36
-0.036935905	3	3.68E-01	-0.357756185	3
0.097786264	3	2.31E-01	-0.765768333	3
-0.862408483	12	5.38E+02	-0.923575899	12
-1	19	2.10E+05	-0.838541734	19
0.17029462	18	1.17E-02	-0.867329751	18
-0.37652764	5	1.68E+00	-0.512401446	5
-0.276217471	5	1.04E+00	-0.376277161	5
-0.884842921	3	6.79E+00	-0.396211721	3
-1	14	1.28E+05	-0.586250204	14
-0.330292974	8	2.09E+00	-0.154536395	8
-0.034711952	2	3.83E-01	-0.009714647	2
-0.696708861	3	3.55E+00	-0.213447336	3
-0.152992348	61	3.03E+00	0.317784915	61
-0.03757094	15	2.12E-01	0.018202381	15
0.237128508	18	4.82E-03	-0.319968495	18
-0.535828329	16	7.83E+01	-0.28618479	16
-1	24	2.76E+08	-0.128228768	24
-0.304909089	18	6.40E+00	0.147414788	18
-0.571899833	26	2.52E+03	-0.749877752	26
-0.782258891	67	9.16E+12	-0.249555567	67
0.563060847	3	4.67E-02	-0.082365414	3
-0.052174179	6	3.47E-01	-0.073932178	6
-0.019479793	2	3.67E-01	0.074179596	2

-0.427041997	11	7.49E+00	-0.38698401	11
-0.215186518	3	6.79E-01	0	3
-0.577222306	6	5.93E+00	-0.701615482	6
-0.757232118	5	1.02E+01	-0.202735059	5
-0.230602377	7	9.87E-01	-0.268352533	7
-0.498866127	3	1.80E+00	-1	3
0.03665258	4	2.60E-01	-0.037446191	4
1	42	3.32E-16	0.112774523	42
2	3	8.18E-04	0.432131878	3
0.095883853	17	3.59E-02	0.348834359	17
-0.323987871	5	1.31E+00	0.218423852	5
-0.6056201	7	9.58E+00	0.223953028	7
-2	13	3.10E+07	-2	13
-0.00197133	7	2.47E-01	-0.120123545	7
-1	7	1.28E+02	-1	7
-0.717306855	17	1.02E+03	-0.847841313	17
-0.136019218	10	5.88E-01	-0.06409214	10
-1	28	8.93E+08	-0.42887864	28
-1	1	7.10E+00	-0.155847913	1
-0.436659397	13	1.25E+01	-0.315332784	13
-0.918561755	18	2.20E+04	0.007978174	18
-1	10	2.83E+04	-0.481785318	10
-1	8	5.03E+03	-0.936201801	8
-0.610689031	6	7.11E+00	-0.812254209	6
-0.376053535	7	2.38E+00	-0.659987211	7
0.030250294	35	1.61E-02	0.302907531	35
-0.071562416	3	4.14E-01	-0.000271481	3
-0.442420318	7	3.56E+00	-0.221059142	7
-0.556949557	8	9.57E+00	-0.459355912	8
-0.125631421	6	5.17E-01	0.500524458	6
-0.553863919	14	5.41E+01	-0.589810531	14
-0.40113749	22	4.95E+01	-0.536869399	22
-0.660843882	15	2.43E+02	2	15
-0.712803783	13	1.98E+02	0.316914175	13
0.879732303	13	2.43E-05	-0.277835457	13
-0.428214269	28	2.68E+02	-0.608604112	28
-1	6	8.09E+01	-0.186378696	6
-0.531700853	6	4.64E+00	-1	6
-0.75660068	9	5.60E+01	-0.464376229	9
-0.208307878	3	6.63E-01	-0.055820218	3
0	5	2.81E-01	-0.265133216	5
-0.015417978	3	3.42E-01	-0.014770998	3
-0.114232062	6	4.86E-01	-0.283659454	6
-0.725722635	20	3.83E+03	-1	20
-0.179275928	4	6.29E-01	-0.426506048	4
-1	4	2.03E+01	-1	4
-2	17	2.17E+07	-0.683229482	17

-0.754603535	13	3.00E+02	-0.156504997	13
-0.493371822	8	6.25E+00	-0.37537539	8
-1	8	5.17E+02	-0.274375438	8
-0.205207595	15	1.41E+00	-0.226328004	15
-0.197132999	9	9.06E-01	1	9
0.322073576	13	6.39E-03	2	13
-0.300740877	8	1.71E+00	2	8
0.454832799	3	6.78E-02	2	3
0.225119499	5	9.65E-02	3	5
-0.214568483	167	6.39E+04	2	167
-0.034784818	3	3.65E-01	-0.065434124	3
0.256372373	7	5.16E-02	-0.116198082	7
1	5	1.67E-03	-0.881591247	5
-0.734425231	31	3.98E+05	-1	31
-0.094049449	59	2.68E-01	0.338085681	59
-1	5	1.37E+02	-0.346463739	5
-0.465818835	10	8.30E+00	-0.777516644	10
-0.752165388	11	1.26E+02	-0.937773367	11
-0.315515145	2	8.37E-01	-0.030835336	2
-1	2	7.57E+00	-1	2
-0.476315576	37	6.11E+03	-0.08984928	37
-0.023420005	2	3.71E-01	0.00154014	2
-0.601126866	17	2.36E+02	-1	17
-1	21	2.41E+08	-2	21
-0.321023101	9	2.26E+00	-0.176123202	9
-0.193900955	8	8.36E-01	0.120741327	8
-0.35077698	9	2.81E+00	1	9
-0.15894121	58	3.51E+00	1	58
-0.568589903	12	3.46E+01	0.389267166	12
-0.293153762	7	1.44E+00	-0.245634355	7
-0.038983555	2	3.88E-01	-0.06010704	2
-0.443593251	12	1.08E+01	-1	12
1	12	1.75E-06	-0.672207079	12
-0.157940275	9	6.79E-01	-0.494322281	9
0.166286724	3	1.83E-01	0.021449747	3
0.436114675	6	2.48E-02	-0.142809629	6
-0.003344075	5	2.86E-01	-0.461537059	5
-0.057414852	10	3.13E-01	-0.62965546	10
0.048819391	3	2.74E-01	-0.171109109	3
0	5	2.81E-01	-0.000433871	5
0.59629566	7	6.58E-03	-0.214961319	7
-0.071864228	4	4.05E-01	-0.396681248	4
-0.514767755	5	3.24E+00	-1	5
-0.04157412	6	3.28E-01	-0.354574614	6
0.164314674	13	3.09E-02	-0.670126453	13
-1	10	1.29E+04	0.216670329	10
0.088685012	2	2.72E-01	0.001747756	2

0.459358166	1	1.40E-01	-0.530484504	1
-0.495334927	12	1.75E+01	-0.148640117	12
0	1	3.73E-01	0	1
0.004592012	6	2.56E-01	-0.277413987	6
0.070641521	4	2.26E-01	-0.052665164	4
0.253100453	6	6.67E-02	-0.275808738	6
-0.162033337	9	6.99E-01	-1	9
-0.139986151	3	5.24E-01	-0.230018089	3
-0.471833049	12	1.40E+01	-0.674385581	12
0.117593573	7	1.20E-01	-0.426383358	7
-0.334351407	7	1.85E+00	-0.381351395	7
-0.047825249	4	3.67E-01	0	4
-0.384937664	8	3.02E+00	0.730240367	8
-0.001907457	8	2.30E-01	-0.291114655	8
-0.480370635	8	5.72E+00	-0.460238023	8
-1	7	8.28E+02	-1	7
-0.772786616	30	5.94E+05	-0.679248243	30
-0.452209974	6	3.02E+00	-1	6
-0.850096299	9	1.11E+02	-0.301405962	9
0.05641818	4	2.40E-01	0.342894149	4
-0.553620013	9	1.25E+01	-0.881866492	9
0.924243342	24	9.12E-09	0.327604372	24
0.046720545	2	3.05E-01	2	2
-1	3	1.73E+01	2	3
-0.458483808	12	1.24E+01	0.95835199	12
-0.966418629	3	8.98E+00	-2	3
-1	4	9.11E+01	-1	4
-0.072023288	1	4.35E-01	-0.084516173	1
-0.657898108	10	3.88E+01	-0.751143675	10
-0.368573942	31	1.37E+02	-0.327273617	31
-0.63774444	12	6.60E+01	-0.337439812	12
-0.166150305	17	9.78E-01	-0.214417111	17
-1	6	7.33E+01	-0.499159037	6
-0.007046358	12	1.83E-01	0.085782112	12
-0.039234676	9	2.83E-01	-0.063048973	9
-0.055725337	5	3.66E-01	-0.057409489	5
0.046911933	11	1.22E-01	-0.367893824	11
-0.464377351	12	1.31E+01	-0.569767001	12
-0.195190224	5	7.10E-01	-0.49668307	5
-1	8	2.24E+03	-0.839905521	8
-1	8	2.63E+03	-0.674678486	8
-0.892272919	6	3.25E+01	-0.453563164	6
-0.444590742	9	5.61E+00	0.260141067	9
-0.501511824	13	2.40E+01	-0.80265348	13
-2	7	9.09E+05	-2	7
-0.354210418	11	3.98E+00	-0.778039543	11
0.076146237	18	4.08E-02	-0.043711611	18

-0.449018057	11	9.07E+00	-0.52196736	11
-1	6	2.37E+02	-1	6
0.159856822	8	7.77E-02	-0.305817681	8
0.177538395	20	7.30E-03	-0.513633493	20
-1	7	1.05E+02	-0.495812863	7
-0.903747739	11	4.70E+02	-0.862730152	11
0.2883566	11	1.50E-02	-0.816577543	11
-0.348719013	5	1.47E+00	-0.284304918	5
0.203009432	7	7.13E-02	-0.450195454	7
-0.370359315	8	2.73E+00	-0.847186315	8
-0.29420944	6	1.28E+00	-0.401134883	6
-0.421282164	22	6.82E+01	-0.992122576	22
-2	11	1.89E+07	-1	11
0	7	2.44E-01	0.026105783	7
0.02488294	17	8.78E-02	-0.003793779	17
0.66152619	11	5.89E-04	0.236986537	11
-0.054115938	8	3.27E-01	-0.116227499	8
0.284922034	14	7.16E-03	-0.659838021	14
0.043904366	16	7.63E-02	-0.266828746	16
-0.952148949	9	2.37E+02	-1	9
0.820367851	10	2.73E-04	-0.098694618	10
-0.003609195	8	2.33E-01	0.126173583	8
1	12	8.80E-06	-0.166392033	12
0.863671539	7	1.30E-03	-0.50387361	7
-0.21279984	2	6.29E-01	-0.090456544	2
-0.523173093	3	1.96E+00	-0.061825687	3
-1	5	1.14E+02	-0.996035565	5
-2	3	7.49E+02	-2	3
-2	3	2.05E+02	-2	3
-1	5	1.07E+02	-2	5
-0.306316594	2	8.15E-01	-1	2
-0.40208005	3	1.29E+00	-0.599772913	3
-2	5	4.32E+02	-0.250537428	5
-1	7	1.47E+03	1	7
-0.920659968	8	1.10E+02	-0.490151593	8
1	5	1.31E-03	-0.402158131	5
0.165639005	34	7.05E-04	-0.643134185	34
-1	10	2.46E+03	-0.006530672	10
-0.617164863	4	3.77E+00	-0.687970726	4
-0.377860848	10	4.10E+00	-1	10
-0.017945851	7	2.72E-01	-0.247622813	7
-0.721808685	16	7.24E+02	-0.240801635	16
-0.74698862	9	5.21E+01	0.451109697	9
0.042197888	1	3.41E-01	0.025392042	1
0.945595384	18	3.98E-07	-0.827895225	18
-0.448591083	2	1.21E+00	-0.317158431	2
-0.213839566	8	9.56E-01	-0.269604457	8

-4.34E-05	12	1.71E-01	0.001642939	12
0.337742803	7	3.15E-02	-0.768901277	7
-0.119166116	6	4.99E-01	-0.12929891	6
0.33245591	19	1.02E-03	0.824059886	19
0.067632526	24	2.29E-02	0.402677097	24
-0.123274616	9	5.26E-01	-0.393131483	9
0.268378073	20	1.94E-03	0.341166463	20
0.08652165	14	5.92E-02	0.227419007	14
-0.348479056	2	9.17E-01	-0.027271941	2
2	5	8.18E-05	0.683361723	5
-0.764263923	9	5.92E+01	-0.577807151	9
-1	17	2.67E+05	-0.844088534	17
0.63854645	5	1.36E-02	-0.233995479	5
-2	4	2.01E+02	0.04239094	4
-2	5	1.21E+03	0.293461384	5
-0.259010493	6	1.06E+00	2	6
-0.719369674	12	1.42E+02	2	12
-0.631936945	9	2.23E+01	0.135151084	9
-0.244764024	4	8.22E-01	-0.190047912	4
-0.037017755	3	3.68E-01	-0.036796925	3
0.498984856	7	1.19E-02	-0.952980027	7
-0.282214457	5	1.07E+00	-0.686856045	5
0.016610224	10	1.73E-01	-0.655692297	10
-0.22656234	10	1.22E+00	0.909670296	10
-0.344829652	35	1.52E+02	-0.473974274	35
-0.019881666	2	3.67E-01	-0.016573107	2
-2	10	8.55E+07	-2	10
-0.882293822	19	2.26E+04	-0.223279586	19
0.172573418	8	7.14E-02	-0.082375317	8
-0.648276465	37	5.10E+05	-0.346363729	37
-0.913421321	10	3.01E+02	-0.515022991	10
-0.055466653	8	3.30E-01	-0.607457389	8
-0.028726461	3	3.58E-01	-0.042575321	3
0.776132521	23	2.08E-07	0.232519159	23
0.628920178	12	4.82E-04	0.250786759	12
-0.834252776	17	4.47E+03	-0.254049097	17
-0.524459547	18	1.18E+02	-0.664379521	18
-0.898854748	4	1.20E+01	0.087531595	4
-0.726146661	8	2.98E+01	-0.776040233	8
0.0263624	10	1.60E-01	-0.819878352	10
-0.246257528	24	5.07E+00	0.025539377	24
-0.662493113	14	1.72E+02	2	14
-0.424171351	4	1.71E+00	2	4
-0.297363464	5	1.15E+00	-0.120544671	5
-0.319483525	7	1.69E+00	-0.55792231	7
-1	3	4.53E+01	-0.693603453	3
-0.999410506	2	5.61E+00	-1	2

-1	16	4.30E+06	-0.966990862	16
-0.242949095	4	8.16E-01	-0.413817148	4
-0.10118252	14	4.37E-01	0.009951331	14
-0.883528704	9	1.43E+02	-0.456193924	9
-1	22	1.15E+07	-0.885459546	22
-2	7	1.28E+05	-1	7
-1	2	7.19E+00	-0.876741015	2
-0.570494647	12	3.52E+01	-0.088588095	12
-0.545313124	12	2.79E+01	0.341211983	12
1	13	2.93E-06	-0.456011066	13
-1	6	6.79E+02	-0.657773226	6
-0.097156746	17	4.10E-01	0.223965893	17
0.797054012	2	3.78E-02	-0.160382099	2
0.54338447	11	1.64E-03	-0.352486964	11
-0.866716758	24	2.19E+05	-0.993903373	24
-0.032757885	1	4.00E-01	0.020527047	1
-0.066692036	10	3.37E-01	-0.449708433	10
-0.022467497	2	3.70E-01	-0.005549891	2
-0.757539833	11	1.32E+02	-0.504069228	11
-0.392072018	5	1.81E+00	-0.393673588	5
-0.148128765	3	5.39E-01	-0.279230136	3
0.84149639	3	1.79E-02	0.277468243	3
1	7	5.65E-05	2	7
2	2	6.56E-04	2	2
-0.579110499	45	1.02E+06	-0.691427504	45
-2	2	1.90E+02	-2	2
0.249140067	10	2.67E-02	-0.887507985	10
0.59366113	7	6.69E-03	-0.286355935	7
-0.863556611	7	4.57E+01	-1	7
-0.043240728	2	3.92E-01	-0.012264305	2
-1	6	7.66E+01	-0.920538949	6
-1	16	3.31E+04	-0.814542845	16
-1	7	4.39E+02	-1	7
-0.747223574	6	1.49E+01	-0.832467736	6
-0.123500662	4	5.00E-01	-0.400292647	4
-1	5	1.22E+02	-0.152098105	5
-0.281154095	6	1.20E+00	0.953623267	6
0.488745782	64	2.62E-12	1	64
0.195280529	3	1.66E-01	0.021427233	3
-0.544486749	7	6.61E+00	-0.25083665	7
-2	6	1.28E+03	-2	6
-2	10	1.08E+05	-2	10
-0.785523084	14	6.38E+02	-0.832167783	14
-0.220921342	18	2.10E+00	-0.543274697	18
0.389137573	6	3.20E-02	0.606202229	6
-0.027025271	2	3.75E-01	-0.175574641	2
-2	5	3.92E+02	-1	5

-0.647952515	4	4.28E+00	-1	4
0	1	3.73E-01	-0.020525485	1
0	3	3.24E-01	-0.327477066	3
0.034410358	6	2.17E-01	0.100786658	6
0.370848208	11	7.35E-03	-0.903127075	11
-0.017231244	1	3.87E-01	0	1
-0.292658368	4	1.00E+00	-0.147345456	4
-0.114440767	3	4.80E-01	0.206326806	3
0.795204148	4	1.16E-02	-0.264197655	4
-0.632965941	4	4.03E+00	-0.151176528	4
-0.866337958	13	9.18E+02	-1	13
-0.818148037	18	5.81E+03	2	18
-0.694832479	6	1.12E+01	0.274106091	6
0.123544029	29	4.10E-03	-0.64560159	29
-0.752281432	6	1.53E+01	-0.417459003	6
-0.967918862	2	5.14E+00	-0.054863237	2
0.000845932	5	2.80E-01	0.339663681	5
0.060471841	6	1.89E-01	0.218172416	6
0.040271919	9	1.57E-01	0.187433931	9
-1	4	2.48E+01	-0.810890065	4
0.542775601	5	2.14E-02	-0.026060772	5
-0.079162988	4	4.17E-01	0.017402726	4
-0.565299056	5	4.12E+00	-0.819188988	5
-0.688118161	7	1.58E+01	-0.898525395	7
-0.993009008	10	5.71E+02	-1	10
-0.126036896	5	5.12E-01	-0.42768723	5
-1	4	5.14E+01	-0.848302172	4
0.219367311	7	6.46E-02	-1	7
-0.812372135	5	1.33E+01	0.505354122	5
-0.976813126	2	5.27E+00	2	2
-1	16	1.50E+05	-0.828742645	16
-2	4	5.59E+03	-0.992832265	4
-0.006449647	6	2.71E-01	-0.333608495	6
-0.549467661	5	3.82E+00	-0.329384184	5
-0.649866957	12	7.40E+01	-0.420625091	12
-0.158750456	6	6.18E-01	-1	6
-0.978925495	12	1.60E+03	-0.931521967	12
-2	3	9.80E+01	-0.569541283	3
-2	6	4.82E+04	0.146872684	6
2	3	2.30E-04	1	3
-1	8	2.19E+02	0.712814747	8
1	32	5.60E-13	-1	32
0.846881604	4	9.42E-03	-0.01565834	4
-0.379365337	11	4.95E+00	-0.503910477	11
0.462811127	43	2.09E-08	-0.168715397	43
0.062283252	55	7.89E-04	-0.052212738	55
-0.06136442	7	3.54E-01	-0.457903779	7

-0.081161168	5	4.13E-01	-0.389807628	5
-0.813259601	8	5.35E+01	-0.735411473	8
-0.608950801	10	2.62E+01	-0.426468291	10
-2	19	1.17E+10	0.169702877	19
-1	62	6.63E+17	1	62
-2	1	2.97E+01	-0.052580856	1
-1	7	6.44E+02	-0.997461417	7
-0.734428581	9	4.75E+01	-1	9
-2	81	4.19E+34	-0.189698093	81
-0.834998156	4	9.21E+00	-0.187774137	4
-0.505764202	1	1.09E+00	-0.043437804	1
-2	6	1.02E+04	-2	6
-0.75429159	7	2.36E+01	1	7
-0.010127667	9	2.28E-01	3	9
-0.882433759	8	8.52E+01	-1	8
-0.475132802	6	3.42E+00	-2	6
-0.223778342	3	6.99E-01	-0.321398608	3
-0.010523319	7	2.60E-01	-0.174867963	7
-0.543342959	8	8.74E+00	-0.838934193	8
-0.585574925	4	3.32E+00	-1	4
-0.775962697	8	4.17E+01	-0.769161018	8
-1	2	7.20E+00	-0.460950693	2
-0.800750614	44	6.18E+08	-2	44
0.095664757	1	3.04E-01	-0.019188719	1
0.095664757	1	3.04E-01	-0.019188719	1
0.507456508	2	8.47E-02	0.614974334	2
0.368721887	3	9.12E-02	-0.075458238	3
-0.262152978	5	9.76E-01	-0.440379651	5
-0.462634987	15	2.59E+01	-0.90392	15
0.687894955	19	7.22E-06	-0.806604426	19
-0.434709686	17	2.89E+01	-0.643363328	17
0.877810995	8	6.26E-04	2	8
-1	3	2.99E+01	-0.790936738	3
-1	11	6.58E+04	-0.630067075	11
-0.173064034	3	5.87E-01	0.704664048	3
-2	13	1.28E+06	-0.62162523	13
-0.31616256	2	8.38E-01	-1	2
-0.743755781	63	3.01E+11	-0.342690212	63
-0.479121426	5	2.74E+00	-0.235502923	5
0.245664398	18	4.30E-03	0.200032321	18
0.000311398	1	3.73E-01	0.03161638	1
0.549190143	8	5.69E-03	-0.010791735	8
0.424083522	5	3.75E-02	0.114688576	5
0.701645405	6	5.91E-03	0.119864862	6
-0.328633395	13	4.26E+00	-0.31439257	13
-2	3	5.69E+02	0.114953542	3
-0.333880236	10	2.88E+00	1	10

0.222287359	8	5.11E-02	0.958917831	8
-0.375904568	8	2.84E+00	0.163538787	8
-0.313413114	3	9.52E-01	-0.000695358	3
0.755070849	19	2.83E-06	0.053081895	19
-0.091997596	12	4.04E-01	0.8224184	12
-0.702510382	6	1.17E+01	0.691403789	6
0.367318929	10	1.03E-02	0.324415845	10
0.35254805	11	8.62E-03	0.240314442	11
-0.674595446	353	9.27E+56	2	353
0.010275034	3	3.13E-01	0.736366682	3
-0.249211147	8	1.21E+00	-0.231841883	8
-0.022240253	5	3.12E-01	-0.005285208	5
-0.093965696	2	4.52E-01	-1	2
-0.823357849	28	6.77E+05	-0.641373806	28
-0.018393476	2	3.66E-01	-0.087508561	2
-0.014055383	2	3.62E-01	0.016124143	2
-0.174267776	26	1.60E+00	-0.104289258	26
-0.009761166	10	2.13E-01	-0.166643227	10
-1	14	1.24E+04	2	14
-1	27	2.85E+08	-0.251332167	27
0.478398971	77	2.78E-14	-0.358540486	77
-0.238043716	10	1.33E+00	-1	10
-0.310503934	8	1.83E+00	-0.191388169	8
-1	4	8.67E+01	-0.407352598	4
-0.226426107	2	6.53E-01	-0.088593842	2
-0.010621917	3	3.36E-01	-0.004490415	3
0.007912235	3	3.15E-01	-0.018775846	3
-0.155420917	13	7.54E-01	-0.702403094	13
-0.208187905	10	1.05E+00	2	10
-0.722557987	20	3.66E+03	-1	20
0.491147439	9	5.67E-03	0.521138711	9
0.704653095	9	1.18E-03	-0.044295976	9
0.205653121	5	1.06E-01	-0.025544832	5
-0.833700733	23	7.70E+04	-0.593544065	23
-0.669350541	10	4.25E+01	0.662273021	10
0.187409296	8	6.46E-02	-0.576400091	8
-0.882316722	39	5.79E+08	-0.960538103	39
-0.158108611	6	6.16E-01	-0.024617405	6
-1	11	5.42E+04	-1	11
-0.134127288	11	5.89E-01	-0.375051249	11
-0.072800552	7	3.79E-01	-0.319904077	7
-0.229809387	6	9.07E-01	-0.099924077	6
-0.418381443	8	3.77E+00	-0.293285124	8
-0.009365082	20	1.11E-01	-0.10998688	20
-0.497645435	6	3.86E+00	-0.173612041	6
0.077710032	6	1.72E-01	0.174502804	6
0.563812257	10	2.14E-03	0.390500389	10

-0.345688293	19	1.29E+01	-0.008886909	19
-0.147576048	6	5.82E-01	0.103489333	6
0.941964872	5	3.21E-03	-0.627086526	5
-0.436539697	13	1.25E+01	0.212600177	13
1	13	4.12E-07	0.933380789	13
2	2	3.41E-03	0.174179722	2
-0.350857942	7	2.05E+00	-0.312331613	7
-0.164976951	3	5.71E-01	-0.019381303	3
-2	8	6.96E+03	-1	8
-0.63779069	7	1.16E+01	-0.412277658	7
-0.312080247	7	1.62E+00	-0.885490251	7
0.127401094	5	1.54E-01	-0.01460862	5
-0.261780331	8	1.32E+00	0.384128485	8
-1	8	6.06E+02	0.480003865	8
-0.584038477	5	4.50E+00	-0.33825665	5
0.430289297	15	1.07E-03	-0.686985766	15
0.075280554	5	1.97E-01	-0.088987593	5
-0.343301472	13	4.93E+00	-0.189677465	13
-0.899405672	8	9.55E+01	-1	8
-0.467042929	19	6.97E+01	0.534890739	19
-1	5	2.48E+02	-0.95193302	5
-0.921089456	13	1.59E+03	-1	13
-0.526773768	7	5.94E+00	-0.204569683	7
-0.173849463	3	5.89E-01	0.002203574	3
0.264239683	57	2.48E-07	0.254346919	57
1	11	2.18E-06	0.155207227	11
0.087548406	5	1.86E-01	0.083594036	5
-1	11	1.13E+04	-0.249007476	11
-1	11	7.74E+04	0.268667435	11
0.511390748	16	2.85E-04	0.616397981	16
0.177272954	3	1.76E-01	0.40883829	3
0.258328228	29	2.59E-04	0.321626303	29
-0.031114111	4	3.43E-01	0.142061919	4
1	3	3.61E-03	1	3
2	9	4.15E-07	1	9
-0.776458881	2	3.02E+00	-0.398873941	2
-0.301547381	20	7.89E+00	-0.567040075	20
-1	13	3.84E+03	-0.898620201	13
-1	6	6.62E+02	-1	6
0	2	3.48E-01	-0.1200092	2
-0.64790286	16	2.99E+02	-0.523678331	16
0.943851692	5	3.18E-03	-0.7714441228	5
-0.706167119	24	1.38E+04	0.047189062	24
-0.036421151	2	3.85E-01	-0.012997672	2
0.355466864	26	8.82E-05	-1	26
-1	13	4.49E+03	-0.937448421	13
-0.000930232	7	2.45E-01	-0.135996701	7

-0.913519728	5	2.15E+01	-0.642629718	5
-1	3	2.88E+01	-0.658036845	3
-0.407205354	11	6.31E+00	1	11
0.764374848	8	1.34E-03	0.686029265	8
-0.81967382	10	1.42E+02	-0.39883187	10
-0.304200948	12	2.93E+00	-0.380678447	12
-0.641437167	47	1.41E+07	0.153334777	47
-0.937364261	6	4.15E+01	-0.319618309	6
-1	4	3.33E+01	-0.879610015	4
-1	6	1.17E+02	-0.296235655	6
0.175692848	8	6.99E-02	-0.027363827	8
-0.648453846	13	1.04E+02	-0.583765551	13
-0.161060423	4	5.84E-01	-0.130019544	4
1	27	1.52E-11	0.652660563	27
-0.496149182	9	8.21E+00	-1	9
-0.722342172	52	1.44E+09	1	52
0.719464156	14	7.00E-05	0.607334426	14
-0.482112255	6	3.55E+00	-0.301575057	6
-0.312765347	5	1.24E+00	-0.345737961	5
-0.082214358	14	3.57E-01	0.039417024	14
0.205057319	14	1.67E-02	0.430180962	14
-0.333991978	6	1.59E+00	-0.452695669	6
-0.123878664	6	5.12E-01	-0.246944908	6
0.041619502	9	1.56E-01	-0.870684901	9
-0.267781468	9	1.52E+00	-0.135715783	9
-0.631028991	5	5.63E+00	-1	5
0.069497234	3	2.55E-01	-0.04280513	3
0.542102934	12	1.09E-03	-0.596207735	12
0.685124392	4	1.83E-02	-0.211263205	4
0.910211835	12	3.49E-05	-0.198244606	12
-1	16	3.09E+06	-0.918186649	16
-0.266168079	12	2.06E+00	0.181569096	12
-0.036953491	14	2.20E-01	0.059885693	14
0.474797565	16	4.41E-04	0.425679651	16
2	13	2.56E-09	-0.745969094	13
0.049671631	9	1.47E-01	-1	9
0.371650048	8	1.87E-02	-2	8
0.074842202	14	6.70E-02	-2	14
-0.007398425	5	2.91E-01	-0.897288472	5
-0.908706169	6	3.56E+01	-0.492732307	6
-0.320632863	4	1.12E+00	-0.291184343	4
-0.177171733	35	2.54E+00	0.944840566	35
-0.20812786	31	4.16E+00	-0.363439172	31
0.185320811	3	1.71E-01	0.105397933	3
-0.111271012	15	4.87E-01	0.303156831	15
-1	25	5.12E+06	-0.630324863	25
-0.411612373	3	1.33E+00	-0.210200282	3

-3	7	5.26E+06	-2	7
-0.053205478	16	2.44E-01	-0.401348654	16
-0.261391107	5	9.73E-01	0.311531991	5
0.650868535	2	5.68E-02	0.218353441	2
0.231878966	45	1.26E-05	-0.199014903	45
0.134988671	4	1.74E-01	-0.187923599	4
-0.676404816	12	9.48E+01	-1	12
0.920315016	4	6.98E-03	0.50030385	4
3	30	3.39E-31	1	30
-0.422344887	6	2.57E+00	0.041656227	6
-2	5	8.50E+03	-0.954441886	5
-0.209251027	11	1.13E+00	-0.893857096	11
-1	3	3.02E+01	-0.286758416	3
0.290288083	10	1.92E-02	-0.981186252	10
0.153140506	9	6.85E-02	0.190331469	9
0.28552538	8	3.34E-02	0.360390228	8
-0.970784449	12	1.48E+03	0.701317974	12
0.114153398	18	2.46E-02	0.120284721	18
0.488640732	12	1.79E-03	-0.052890279	12
-0.428412998	2	1.15E+00	-1	2
-0.548978714	4	2.86E+00	-1	4
-1	15	7.74E+04	-1	15
-0.917072966	34	1.05E+08	-1	34
-1	4	8.08E+01	-2	4
-0.422957573	5	2.10E+00	0	5
-0.035069516	1	4.02E-01	-0.021980477	1
-0.035069516	1	4.02E-01	-0.021980477	1
-0.230777946	2	6.61E-01	-0.663966533	2
-0.158143596	2	5.40E-01	-0.733869061	2
-0.693663429	5	7.58E+00	-0.614791266	5
0.00035153	1	3.73E-01	-0.020525485	1
0.00035153	1	3.73E-01	-0.020525485	1
-0.567005507	11	2.53E+01	-0.912841272	11
-1	6	6.30E+01	-0.750952043	6
-0.853024687	4	9.91E+00	-0.701073979	4
-0.330715555	3	1.01E+00	-0.62654732	3
-0.11035914	1	4.72E-01	-0.459174603	1
-0.114019611	1	4.76E-01	-0.091766155	1
0.818636049	2	3.56E-02	-0.713394702	2
-0.701179724	3	3.61E+00	-0.722360615	3
-0.184402307	4	6.42E-01	-0.791928167	4
-1	6	1.33E+02	-0.665320189	6
-1	3	2.74E+01	-0.218662736	3
-0.285455145	2	7.69E-01	0.015678123	2
0.357665056	11	8.24E-03	0.02021723	11
-0.397634822	13	8.48E+00	-0.77414346	13
-0.297549368	36	5.44E+01	-1	36

-2	2	1.30E+02	-2	2
-0.702542756	6	1.17E+01	0.123627918	6
1	9	6.87E-05	0.885124993	9
0.778137664	4	1.25E-02	0.387641918	4
0.487202501	2	8.96E-02	0.221959798	2
0.043440854	8	1.70E-01	-0.149675917	8
-0.131136394	11	5.74E-01	-0.017913926	11
0.029795432	3	2.92E-01	-0.045039167	3
-0.255428716	7	1.15E+00	-0.078378053	7
0	7	2.44E-01	0	7
-0.288109784	19	5.77E+00	-0.222579681	19
-0.279011547	7	1.32E+00	-0.291300526	7
-0.11546587	3	4.82E-01	-0.180295851	3
0.612059232	17	5.33E-05	0.973706608	17
0.048721721	15	7.99E-02	0.755347566	15
0.2818354	7	4.42E-02	-0.43347863	7
2	10	1.37E-07	-1	10
-0.46753178	8	5.25E+00	-0.49857778	8
-0.640782661	6	8.36E+00	-0.415171455	6
-0.716939082	10	6.23E+01	-0.496650755	10
-0.020733293	20	1.32E-01	-0.132358145	20
-0.959037736	6	4.67E+01	-2	6
0.374835479	7	2.52E-02	-0.69386178	7
1	4	3.89E-03	-0.517967797	4
1	5	1.05E-03	-0.180867916	5
-1	2	6.04E+00	-1	2
0.548244937	2	7.56E-02	-0.794154619	2
-0.398428643	4	1.54E+00	-0.197537574	4
-0.245873811	13	1.86E+00	-0.831148973	13
-0.344541888	11	3.66E+00	-1	11
-0.107512537	6	4.68E-01	-1	6
-0.557671952	3	2.20E+00	-0.497966916	3
-0.049560426	26	1.59E-01	-0.491387146	26
-1	10	1.20E+03	-0.464356974	10
-1	5	8.78E+01	0.541031863	5
-2	2	4.44E+01	0.178911191	2
-0.355836649	67	3.60E+04	0.993809156	67
0.170713897	12	3.48E-02	-0.501244952	12
-0.34580249	10	3.17E+00	-0.198547703	10
-0.284437066	4	9.67E-01	-0.377574915	4
0	4	3.02E-01	-0.099204329	4
-0.58325666	4	3.29E+00	-0.462518427	4
-0.685809991	4	5.00E+00	-0.868906468	4
-0.751344741	35	3.11E+06	-0.372928058	35
-0.268199976	4	9.05E-01	0.145816783	4
-1	5	9.84E+01	-0.636645095	5
-1	7	8.96E+02	-0.320729363	7

-0.601186158	3	2.56E+00	-0.215438322	3
0	3	3.24E-01	0.001333038	3
0	3	3.24E-01	-0.111648153	3
-0.574134337	8	1.07E+01	-0.725518793	8
0.448396772	2	9.98E-02	-0.315702572	2
-0.187909429	7	7.62E-01	-0.733113281	7
0	1	3.73E-01	-0.292979544	1
0	2	3.48E-01	-0.510168956	2
0.528112429	18	1.01E-04	0.61592842	18
-2	2	6.29E+01	0.96940336	2
-0.51734379	46	1.96E+05	0.85529542	46
0.244766301	6	6.98E-02	2	6
-0.942593376	5	2.47E+01	-0.092812815	5
-0.743284133	5	9.59E+00	-0.301785654	5
0.243614696	11	2.22E-02	-0.595643277	11
0.825793504	2	3.49E-02	-0.634144436	2
0.639860305	4	2.20E-02	-1	4
-1	9	8.05E+03	-0.618926622	9
-0.271163234	2	7.39E-01	-0.178418678	2
-1	28	1.90E+08	-1	28
-0.651982725	6	8.88E+00	-0.436889234	6
-0.144583123	2	5.20E-01	-0.084332978	2
0.046916832	20	4.91E-02	-0.337312697	20
-0.056076996	2	4.06E-01	-0.008643651	2
-0.026167624	11	2.31E-01	0.033576495	11
-0.45950365	21	9.94E+01	-0.553625349	21
-0.056100631	7	3.43E-01	-0.074267308	7
-1	8	9.46E+02	-0.8683633	8
-0.244666023	7	1.07E+00	-0.667300387	7
-0.82581034	8	5.82E+01	-0.623287732	8
-0.429390254	4	1.75E+00	-0.592845246	4
-0.895355452	3	7.04E+00	0.219893934	3
-0.319805045	6	1.48E+00	0.260263785	6
0.044861722	11	1.25E-01	0.07632993	11
0.835166326	17	3.20E-06	-1	17
0.543967844	11	1.64E-03	-0.095883991	11
0.192323762	1	2.48E-01	0.034621918	1
2	3	1.78E-03	0.230334447	3
0.963235686	8	3.53E-04	-0.239213953	8
-0.151017604	16	7.85E-01	0.409423667	16
-1	9	1.78E+03	-1	9
-0.336755033	15	6.23E+00	-0.351739986	15
-0.437776259	5	2.25E+00	0.640379746	5
0.416502246	8	1.39E-02	1	8
-0.523027208	17	8.82E+01	0.762865207	17
0.154760905	8	8.04E-02	-0.35817877	8
-0.788876042	14	6.61E+02	-0.75284997	14

-0.913420038	9	1.78E+02	0.574461286	9
-0.615975747	20	7.73E+02	0.344405474	20
-0.624370756	7	1.07E+01	-0.792349439	7
-2	5	1.46E+03	-0.62894633	5
-2	2	2.71E+01	-0.089538231	2
-0.127016094	3	5.01E-01	-0.037613021	3
-0.425932441	6	2.62E+00	0.975631677	6
-0.057046003	5	3.69E-01	-0.221320334	5
-0.29565479	35	4.58E+01	-0.143016545	35
-2	18	1.97E+09	-1	18
-1	4	1.28E+02	-2	4
-0.34416424	3	1.06E+00	-1	3
-0.464909818	7	4.08E+00	-0.849523408	7
-0.299949666	5	1.17E+00	-0.227432452	5
-0.747883125	5	9.80E+00	1	5
0.240985236	36	7.45E-05	0.065076628	36
-0.208432315	3	6.63E-01	0.002699822	3
0.877501643	3	1.59E-02	1	3
0.134133391	6	1.27E-01	-0.223828334	6
-1	3	3.12E+01	-1	3
-0.717280925	9	4.19E+01	-0.171715641	9
-0.714677104	24	1.60E+04	-1	24
-0.096123298	1	4.58E-01	-0.070596849	1
-0.016215787	15	1.66E-01	-0.506751371	15
-0.585901449	9	1.59E+01	-0.245585068	9
-0.666910605	8	2.00E+01	0.167794016	8
-2	17	2.13E+07	-0.552371862	17
-2	6	2.19E+03	-0.700649112	6
-0.372320195	2	9.80E-01	-0.350871127	2
-0.734327045	9	4.75E+01	-1	9
-1	15	1.45E+05	-2	15
0.29924009	9	2.33E-02	-0.702209582	9
-0.983204302	4	1.69E+01	-0.621921904	4
-0.096501506	27	3.77E-01	0.183884617	27
0.017610988	7	2.19E-01	-0.15755139	7
-0.705160494	13	1.83E+02	-0.79946303	13
-0.414078723	26	1.36E+02	-0.358385437	26
0.37472424	1	1.68E-01	0.05801817	1
-0.120538879	9	5.15E-01	-0.071111988	9
0.058316593	2	2.96E-01	0.030121701	2
0.470201082	7	1.41E-02	0.499601635	7
0.885151789	13	2.30E-05	0.520911713	13
0.345855668	5	5.44E-02	-0.169722586	5
-0.212805798	4	7.21E-01	0.265330552	4
-1	13	2.68E+04	-0.741932649	13
-0.115320585	19	5.20E-01	0.41328736	19
-1	7	3.42E+02	-0.638180024	7

-1	6	1.72E+02	-0.910008114	6
0.400939752	8	1.54E-02	-0.524238619	8
0.420525712	35	1.17E-06	0.115442977	35
0.41101365	5	3.99E-02	0.70124371	5
-0.404603183	4	1.58E+00	0.338555083	4
-0.082523885	7	4.02E-01	0.061425628	7
-0.133943988	21	6.97E-01	-0.102564025	21
0.203594842	4	1.31E-01	2	4
0.32121551	8	2.63E-02	4	8
-0.05291683	6	3.49E-01	-0.172761288	6
-0.632321273	10	3.16E+01	-0.569939207	10
0.184195296	4	1.42E-01	-0.525013901	4
-0.465754733	15	2.68E+01	-0.383219796	15
-0.100517681	4	4.55E-01	-0.014927899	4
-0.411992475	9	4.41E+00	-0.083876946	9
-0.003888035	5	2.86E-01	-0.019587075	5
-1	4	8.38E+01	-1	4
-0.552744095	3	2.17E+00	-0.434885965	3
-0.327345348	15	5.60E+00	-0.255577705	15
0.384120722	8	1.72E-02	-0.721970391	8
-0.38196059	10	4.23E+00	-0.737223764	10
-0.932311964	13	1.77E+03	-0.651715649	13
-0.95638876	12	1.29E+03	0.535924144	12
0.026270895	3	2.96E-01	-0.123439997	3
0.273271954	5	7.68E-02	-0.228083327	5
0.398933465	8	1.56E-02	-0.194368507	8
0.630672591	4	2.28E-02	0.197352466	4
0.281634769	12	1.24E-02	-0.846394551	12
0.058209547	11	1.11E-01	-1	11
-0.101009279	1	4.63E-01	-0.080511002	1
-0.790259504	7	2.93E+01	0.183107935	7
-0.865753183	4	1.04E+01	-0.166042272	4
0.882862567	26	5.07E-09	-0.474887568	26
0.061523795	10	1.20E-01	-0.40438711	10
-0.397863009	32	3.14E+02	-0.467913301	32
0.083518256	11	8.90E-02	-0.302755137	11
0.58590893	3	4.32E-02	-0.196165498	3
-0.662864594	6	9.42E+00	-0.412989936	6
-1	7	1.63E+02	-1	7
-0.00386339	4	3.07E-01	-0.042573825	4
2	21	2.05E-16	-0.937228145	21
0.968777697	20	7.13E-08	-1	20
-0.014498143	3	3.40E-01	-0.752995597	3
-0.489738037	2	1.36E+00	-0.600736716	2
0.127746889	3	2.09E-01	0.574684323	3
-0.184188967	7	7.45E-01	0.321891149	7
0.290242979	48	9.46E-07	1	48

-1	8	9.41E+02	-1	8
-0.467870384	14	2.17E+01	0.094151808	14
-0.848379349	10	1.79E+02	-0.588025553	10
0.010837875	17	1.05E-01	-0.098072634	17
-0.626961492	7	1.09E+01	-0.374105664	7
2	7	1.84E-05	-1	7
-0.431371439	4	1.76E+00	-0.476020951	4
-0.172532708	10	7.88E-01	-0.70532875	10
-0.126359665	4	5.06E-01	-0.004120529	4
0.257638363	3	1.34E-01	-0.122142224	3
-0.483353464	3	1.71E+00	-0.121377381	3
-2	9	3.34E+04	-0.552971535	9
-1	4	1.10E+02	-1	4
-1	12	2.12E+04	-0.966057975	12
-0.467684186	24	2.28E+02	-0.628960496	24
-0.414113741	6	2.46E+00	-0.072061037	6
0.34473591	5	5.47E-02	-0.14129913	5
0.008038399	2	3.40E-01	-0.010698172	2
-0.234555003	2	6.68E-01	-0.210235436	2
-0.007705467	4	3.11E-01	-0.307013251	4
-0.659192774	4	4.48E+00	-0.505850496	4
-0.461901634	8	5.06E+00	-0.538031711	8
-1	4	2.09E+01	-0.571380957	4
0.26309698	10	2.39E-02	-0.185193008	10
-0.916226772	9	1.82E+02	0.128465756	9
0.794686239	13	5.68E-05	0.870764075	13
0.347120416	6	4.01E-02	0.869074416	6
1	5	5.12E-04	1	5
0.935850109	4	6.55E-03	0.892746311	4
1	4	2.23E-03	-0.193060718	4
0.295109548	4	9.02E-02	-0.10359482	4
-1	26	1.12E+07	-1	26
0.716373487	3	2.76E-02	-0.11953405	3
2	7	2.01E-06	-0.354993961	7
0.931471667	8	4.37E-04	-0.249183143	8
0.514075097	3	5.53E-02	-0.010108715	3
-0.264644688	7	1.21E+00	0.795984329	7
-0.560737438	3	2.23E+00	0.704355011	3
-0.441464677	13	1.31E+01	-0.291183129	13
-0.137261456	4	5.29E-01	-0.599188573	4
-0.133791753	68	1.54E+00	-0.178518323	68
0.016059098	2	3.33E-01	0	2
-2	10	2.42E+05	-2	10
0.818768441	12	8.20E-05	-0.893008953	12
-1	9	1.62E+03	-2	9
-0.64628802	3	2.99E+00	-0.420376859	3
-0.804346593	33	4.55E+06	-0.466301029	33

-0.500596221	8	6.56E+00	-0.370191278	8
-0.621009409	9	2.06E+01	-0.204387332	9
-0.992004821	12	1.80E+03	-1	12
0.460140822	28	6.03E-06	-0.497738792	28
0.983601086	3	1.10E-02	-0.786281167	3
-0.976777109	14	4.89E+03	-0.836535562	14
-1	4	5.36E+01	-0.492474148	4
-0.253577905	20	3.92E+00	0.138537178	20
2	11	1.22E-08	0.27633655	11
-0.042573547	5	3.44E-01	-0.224431647	5
-0.368605616	7	2.28E+00	0.240343728	7
-1	2	1.66E+01	-1	2
-0.033131132	14	2.12E-01	-0.139784326	14
-0.005268438	3	3.30E-01	-0.115921275	3
0.893405607	26	4.17E-09	0.696157215	26
-0.233624397	11	1.40E+00	-0.651251695	11
0.050999737	3	2.72E-01	-0.330127995	3
0.1488299	9	7.07E-02	-0.411464075	9
-0.386894601	14	9.15E+00	-0.724029356	14
-1	7	2.09E+02	-0.923790138	7
-0.053821408	3	3.90E-01	-0.023311201	3
-0.008745029	2	3.56E-01	0	2
-0.369010364	4	1.37E+00	-0.534837279	4
-0.256158991	2	7.09E-01	-0.401975278	2
0.516981222	13	9.11E-04	-0.667192646	13
-0.182674157	2	5.78E-01	-0.007497343	2
-0.511076288	6	4.15E+00	-0.677496908	6
0.074441229	2	2.83E-01	0.146934494	2
0.116107813	8	1.04E-01	0.126479809	8
-0.968791999	4	1.59E+01	-0.645718629	4
-0.300200672	2	8.02E-01	-0.147582086	2
0.01062221	3	3.12E-01	-0.008430655	3
2	5	3.09E-05	-1	5
-0.025220312	4	3.35E-01	-0.258202308	4
-0.208915825	4	7.10E-01	-0.132850054	4
1	19	6.37E-08	-0.965981616	19
-0.840444981	73	2.29E+15	-0.386140027	73
-0.834313573	22	4.84E+04	2	22
-1	8	2.64E+02	3	8
-0.086781149	31	2.96E-01	0.026461146	31
-0.366078441	5	1.60E+00	-0.654311827	5
-0.93213751	16	8.95E+03	-1	16
1	5	4.70E-04	-0.845415129	5
0.309467378	6	4.92E-02	-0.059543739	6
-0.731956722	9	4.67E+01	0.05922418	9
-0.1659259	5	6.18E-01	0.208855671	5
-0.591414416	20	5.41E+02	2	20

-2	3	6.66E+01	-2	3
-0.588306208	1	1.30E+00	-1	1
-2	2	1.84E+02	-1	2
-3	2	6.58E+02	-2	2
-0.450051375	31	8.10E+02	-0.354716956	31
-0.675452334	15	2.87E+02	-0.476209553	15
-0.23403461	3	7.24E-01	-0.227177231	3
-0.447012745	11	8.91E+00	0.016553532	11
0.643931157	6	8.07E-03	-0.451058794	6
2	4	1.98E-04	-0.775503015	4
0.333716445	1	1.84E-01	-0.017124786	1
0.158297909	2	2.24E-01	-0.020167249	2
-0.298931561	11	2.46E+00	0.602389929	11
-0.473716213	43	2.41E+04	-0.725363629	43
-0.082018917	2	4.37E-01	-0.051328002	2
-0.497032064	4	2.31E+00	-0.38828481	4
-0.958055878	3	8.73E+00	-0.658577396	3
-1	5	2.71E+02	-1	5
-0.905637787	5	2.07E+01	-1	5
-0.883577047	2	4.06E+00	-0.675921961	2
-0.350890578	9	2.81E+00	-0.004891695	9
-0.409120119	48	9.52E+03	0.227981523	48
-0.515360228	3	1.91E+00	-0.383159616	3
-0.051303436	4	3.72E-01	-0.11043068	4
-0.346086488	10	3.17E+00	-0.957199847	10
-1	7	2.57E+02	-0.432920693	7
0.270083327	11	1.76E-02	0.467001981	11
1	1	2.73E-02	-0.342252673	1
0.122492921	6	1.35E-01	0.127427191	6
-0.381998696	20	2.55E+01	-1	20
-2	4	2.36E+02	-1	4
-2	15	4.62E+09	-2	15
-1	5	1.92E+02	-0.988488799	5
-2	10	1.04E+05	-2	10
-1	9	6.50E+03	-0.952759024	9
-2	10	7.80E+04	-2	10
0.365685827	27	5.35E-05	-0.539670526	27
-0.14188529	1	5.05E-01	-0.040763042	1
-1	4	8.36E+01	-1	4
-1	4	2.85E+01	-0.379277841	4
-0.371458834	5	1.64E+00	0.136597577	5
-0.579076612	9	1.51E+01	-0.05049036	9
-0.968544412	12	1.45E+03	-0.63245619	12
-0.785990797	10	1.08E+02	-0.529655201	10
-0.001501225	3	3.26E-01	-0.033981124	3
-0.795457584	15	1.11E+03	-0.292238715	15
-0.781516495	3	4.76E+00	0.093036	3

1	11	2.37E-05	-0.634358958	11
0.243986038	8	4.42E-02	-1	8
-0.764244941	12	2.15E+02	-0.646030837	12
-0.350010188	7	2.04E+00	-0.354960966	7
-0.893074877	29	4.51E+06	-0.104036871	29
-0.450964514	8	4.70E+00	0.15167855	8
-1	23	3.57E+06	-0.478369585	23
-0.74796356	17	1.51E+03	-2	17
-0.044725558	4	3.62E-01	-0.225978949	4
-0.612485238	4	3.70E+00	-0.848817485	4
-1	15	7.23E+04	-1	15
-1	5	2.85E+02	-0.905392918	5
-0.846057282	4	9.63E+00	-0.646081087	4
-0.527819945	5	3.45E+00	-0.311103492	5
-1	10	2.84E+03	-1	10
-0.949425611	4	1.47E+01	-1	4
-1	9	4.59E+03	-1	9
0.232121149	8	4.78E-02	-0.402987899	8
-1	3	3.93E+01	-0.775452829	3
-0.107506799	3	4.69E-01	-0.02262056	3
-0.93047577	11	5.93E+02	-0.233352819	11
-0.18033728	10	8.39E-01	-0.133327594	10
-0.65157914	3	3.04E+00	0.314927302	3
-0.364767597	2	9.59E-01	0.190453078	2
-0.089611573	2	4.46E-01	0.271790623	2
0.416329939	8	1.39E-02	0.568061493	8
-0.024485549	6	2.99E-01	0.115657692	6
-0.079702279	9	3.81E-01	0.393143671	9
-0.399845867	16	1.54E+01	-1	16
-0.512780739	6	4.19E+00	-1	6
-1	8	7.32E+02	-1	8
-2	4	4.41E+02	-1	4
-0.542513488	2	1.57E+00	-0.622283698	2
0.135163439	13	4.13E-02	-0.484535139	13
-1	4	5.52E+01	-0.616828363	4
-0.84969909	26	4.32E+05	0.37781202	26
-0.637310099	13	9.31E+01	-0.530134657	13
-0.569094718	6	5.67E+00	-0.776551151	6
0.173721198	9	5.89E-02	-0.379277068	9
-0.242384474	2	6.83E-01	-0.554330601	2
-0.363648252	68	6.07E+04	-1	68
-0.065604916	7	3.63E-01	-0.220158537	7
-0.794251921	10	1.16E+02	-0.828327541	10
-0.516353582	7	5.58E+00	-0.238987268	7
-0.14860407	3	5.40E-01	-0.135611845	3
-0.587692819	8	1.18E+01	-0.550963498	8
-0.929521555	5	2.32E+01	-2	5

-2	4	1.99E+02	-2	4
-1	8	1.82E+03	-1	8
-0.077591623	8	3.83E-01	-0.212248398	8
-0.61095279	25	3.74E+03	-0.610998963	25
0.50013842	20	6.62E-05	0.427949649	20
-0.188151642	11	9.42E-01	-0.528521346	11
-0.681537038	11	6.83E+01	-0.287973452	11
-0.152646991	5	5.80E-01	-0.286521786	5
1	9	2.63E-05	0.018340651	9
0.83179923	3	1.86E-02	-0.048249602	3
-1	24	4.15E+06	-0.620306333	24
-0.353181286	3	1.09E+00	-0.262873723	3
-0.3503927	10	3.29E+00	0.043665239	10
-0.48316054	2	1.33E+00	-0.74971322	2
-0.302728016	5	1.18E+00	-1	5
-0.950160387	8	1.34E+02	-1	8
-1	10	2.76E+04	-1	10
-0.731947938	5	9.09E+00	-0.578350651	5
-0.984205327	2	5.38E+00	-0.424487513	2
-0.006178883	5	2.90E-01	-0.391389413	5
-0.979876879	5	2.95E+01	-0.543090313	5
-1	3	1.42E+01	-1	3
-2	2	2.08E+02	-2	2
-2	6	1.93E+03	-1	6
-2	8	7.00E+03	-1	8
0.310835702	4	8.45E-02	-0.923776849	4
-0.532503545	4	2.67E+00	-0.267623857	4
-1	8	4.34E+02	-0.423542057	8
0.347029081	18	1.12E-03	0.553682841	18
0.388197442	7	2.32E-02	0.430816699	7
-0.830937175	7	3.75E+01	-0.502184132	7
-1	11	1.54E+04	-1	11
-2	6	1.47E+03	-0.729411287	6
-0.548705637	7	6.78E+00	-0.652315774	7
-1	7	2.83E+02	-0.531308517	7
-0.663430848	3	3.17E+00	-0.150819449	3
-0.547444343	4	2.84E+00	-0.366194227	4
-1	12	1.80E+05	-0.648749692	12
-0.611925788	8	1.38E+01	-0.682902706	8
-2	7	2.67E+04	-1	7
-2	5	7.41E+03	-1	5
-1	5	2.91E+02	-0.707627671	5
-0.098389142	29	3.86E-01	-0.178587965	29
-0.032396482	7	2.97E-01	0.006293888	7
-0.791678148	5	1.21E+01	-0.441118531	5
-2	7	6.14E+05	-1	7
-2	11	5.08E+05	-1	11

0.043871771	9	1.53E-01	-0.492811724	9
0.314576923	16	3.00E-03	-0.247754671	16
0.869354908	12	5.11E-05	0.868280783	12
-0.423426002	5	2.10E+00	-0.671265598	5
-0.847767268	13	7.62E+02	-1	13
-0.717938351	2	2.56E+00	-0.25278322	2
-0.468485593	2	1.28E+00	-0.193397732	2
-0.955246039	2	4.96E+00	-0.07667497	2
-2	3	3.85E+02	-0.685748318	3
-1	3	3.28E+01	-2	3
-0.147659811	3	5.38E-01	-1	3
0.104773126	6	1.49E-01	-0.997016486	6
-0.075359678	5	4.02E-01	-0.185015214	5
0.342875426	10	1.26E-02	0.819971463	10
-0.608684163	7	9.76E+00	0.511327135	7
0.396904786	23	1.10E-04	-0.002241246	23
-0.437391131	5	2.24E+00	-0.351191637	5
2	4	8.97E-05	0.309103806	4
0.793324771	16	9.78E-06	0.331418401	16
-0.323528689	32	5.92E+01	0.405536822	32
0.521062303	15	3.83E-04	0.448088507	15
0.120534608	11	6.46E-02	-0.168316646	11
0.171128271	13	2.89E-02	-0.178974566	13
-0.312513247	27	2.37E+01	-0.071674047	27
-0.456621418	20	7.57E+01	-0.329320437	20
-0.239774132	5	8.78E-01	-0.438546221	5
-0.513816913	32	4.24E+03	-0.413962155	32
-0.008782043	16	1.43E-01	0.203009821	16
-0.507122404	5	3.13E+00	0.309376434	5
0.523372712	5	2.34E-02	0.200617279	5
-0.413096919	10	5.43E+00	-1	10
-0.775743587	5	1.12E+01	-0.211852172	5
-0.364604794	5	1.59E+00	-0.490208221	5
-0.183290955	13	9.96E-01	-0.137398943	13
0.139677278	7	1.05E-01	-0.17790319	7
0.295150486	8	3.13E-02	-0.542230963	8
2	11	2.84E-08	-0.290529559	11
0.163098096	6	1.08E-01	-0.534775079	6
2	15	1.81E-12	-0.540426668	15
0.069043099	14	7.13E-02	-1	14
-0.722040936	20	3.63E+03	0.30020331	20
-0.946149202	18	3.18E+04	-0.26324991	18
-0.399513841	4	1.55E+00	-0.971289927	4
0.639627912	7	5.06E-03	-0.392040813	7
-0.022004577	4	3.30E-01	-0.436827147	4
-0.656088768	2	2.16E+00	-1	2
0.467370285	7	1.44E-02	-0.519366231	7

0.711432898	16	2.61E-05	-0.966254237	16
-0.212158143	10	1.08E+00	-0.246180706	10
0.190049157	20	6.09E-03	0.888682265	20
-0.543059002	3	2.10E+00	-0.298928128	3
-0.300228332	3	9.09E-01	-0.089657763	3
-0.533545832	26	1.24E+03	-0.844686421	26
0.647148438	3	3.50E-02	-1	3
0.623072909	13	3.16E-04	-0.97326167	13
0.019650547	4	2.78E-01	-1	4
-0.010163121	5	2.95E-01	-0.153973082	5
-0.254930194	69	4.48E+02	0.919317247	69
-0.821036328	7	3.53E+01	-0.590903604	7
-0.407896952	3	1.32E+00	-0.17350469	3
-0.884489853	9	1.44E+02	-0.655180311	9
0.620979108	7	5.67E-03	0.851201363	7
0.230273064	6	7.55E-02	-0.042530363	6
-0.449454742	13	1.42E+01	0.362007569	13
0.409362802	7	2.04E-02	0.140920772	7
0.544864289	26	2.65E-06	-0.103427718	26
-0.134788892	9	5.72E-01	0.043842395	9
-0.440210799	41	5.77E+03	0.190626676	41
-0.047165742	5	3.52E-01	0.621122646	5
1	21	1.40E-10	-1	21
2	11	2.40E-08	-1	11
0.241556909	2	1.78E-01	-0.113679506	2
-1	21	5.27E+06	1	21
-1	2	1.22E+01	0.421484622	2
0.488069755	13	1.22E-03	0.314330663	13
0.234916717	13	1.53E-02	0.358804952	13
-0.775998025	9	6.46E+01	0.217717066	9
0.64913627	8	2.91E-03	-0.422310181	8
-0.701154063	8	2.52E+01	-1	8
-0.294516924	14	3.42E+00	-0.373537268	14
-0.694621807	4	5.18E+00	-0.639538477	4
-0.006337609	7	2.54E-01	0.026842807	7
-0.366604241	7	2.25E+00	0.050186446	7
-0.155788146	8	6.47E-01	0.022054332	8
-1	11	8.67E+03	-0.79103768	11
0.12479669	14	3.94E-02	-1	14
1	10	2.01E-05	-1	10
-0.590628557	25	2.60E+03	-0.741775638	25
0.133784284	12	4.91E-02	2	12
-0.020139843	2	3.68E-01	0.037695933	2
-0.657020195	36	4.45E+05	-0.165679089	36
-0.149586569	21	8.85E-01	1	21
-2	5	8.18E+02	-0.372397824	5
-0.945653187	21	1.64E+05	0.973377165	21

-0.076959269	3	4.22E-01	0.794645791	3
-0.553706047	5	3.90E+00	0.235450153	5
-0.389381356	7	2.58E+00	-0.109190458	7
-0.960741748	9	2.52E+02	-0.455439079	9
-0.450021288	14	1.79E+01	-0.421305888	14
0.667086309	30	3.61E-08	-0.114294079	30
-0.399542857	10	4.87E+00	-0.818475124	10
-0.438873311	12	1.03E+01	-0.767062749	12
0.498483562	7	1.19E-02	-0.397922411	7
0.126270699	11	6.14E-02	-0.243486149	11
-0.559841725	10	1.76E+01	-0.276730807	10
-0.128255209	7	5.31E-01	-0.015704756	7
-0.293044559	4	1.00E+00	-0.256034462	4
-0.295587604	8	1.65E+00	-0.185356114	8
-1	10	3.06E+04	-1	10
-1	2	7.77E+00	-0.734748836	2
-0.412264108	12	8.04E+00	-0.821037133	12
-1	6	3.16E+02	-0.424161189	6
0.997270232	7	5.79E-04	-0.551095169	7
1	10	2.02E-05	-1	10
0.301356831	6	5.14E-02	-0.651406338	6
-0.589376849	18	2.79E+02	-0.069719294	18
2	5	4.22E-05	0.256834071	5
1	30	3.99E-15	-1	30
0.568189937	9	3.21E-03	-1	9
-0.9163237	13	1.51E+03	-1	13
-0.090784294	10	4.09E-01	-0.165192447	10
-1	13	4.67E+03	0.575122422	13
0.382417523	13	3.49E-03	-1	13
0.052503109	11	1.17E-01	-1	11
-2	5	2.62E+03	-1	5
-1	60	6.04E+22	-2	60
-0.702005799	6	1.16E+01	-0.6862211	6
-0.525509419	10	1.34E+01	-1	10
-1	7	4.70E+02	-1	7
-2	3	7.35E+01	-2	3
0.550240676	3	4.89E-02	-0.728558081	3
-0.600985691	3	2.56E+00	-0.630314172	3
0.498307482	7	1.19E-02	-0.479154132	7
1	19	8.91E-10	-0.530172281	19
0.214602468	11	2.85E-02	-0.610174894	11
-0.378373694	5	1.70E+00	0.55632101	5
-0.783393629	24	5.22E+04	-0.544339308	24
-0.218917633	5	7.95E-01	-0.527971569	5
-0.124436277	2	4.92E-01	0	2
-0.630452253	22	1.89E+03	-0.610449331	22
-0.024637881	1	3.93E-01	-0.010299245	1

-0.783158992	9	6.81E+01	-0.693671247	9
-0.456564306	7	3.88E+00	-0.850938857	7
-1	4	4.94E+01	-0.958259804	4
-2	4	3.46E+03	-1	4
-0.174007299	10	7.98E-01	0.419737641	10
-0.638337632	7	1.17E+01	0.035879078	7
0.23707004	9	3.69E-02	-0.844584343	9
-0.811578185	14	8.42E+02	-0.887739348	14
-0.418721332	5	2.05E+00	-0.184378777	5
-1	12	3.99E+04	-0.65898362	12
-0.01049262	12	1.89E-01	-1	12
-0.180055564	2	5.74E-01	-0.098619248	2
0.051314038	2	3.01E-01	-0.09269931	2
1	6	5.51E-04	-0.795442018	6
-0.043473782	17	2.08E-01	0.391214787	17
0.070538305	9	1.26E-01	0.936045462	9
-1	10	1.52E+04	-0.524880263	10
-2	7	1.12E+04	-0.921321965	7
-0.592691855	15	1.12E+02	-0.261953606	15
0.076309129	7	1.54E-01	-0.326771885	7
-0.651279537	33	1.33E+05	0.223856676	33
-0.437874846	7	3.47E+00	-0.303679296	7
-2	11	1.24E+06	-2	11
-0.127112672	21	6.28E-01	0.174866064	21
-0.001276257	9	2.14E-01	-0.684114556	9
-0.489439478	9	7.81E+00	-0.075552182	9
-0.685873705	10	4.85E+01	-0.064661713	10
-0.771924568	15	8.53E+02	0.107348795	15
0.193331509	12	2.82E-02	-0.357424016	12
-0.740862843	26	5.76E+04	0.65655487	26
-0.976387224	11	8.83E+02	1	11
-0.540954468	2	1.57E+00	-0.045686178	2
0	1	3.73E-01	0	1
-0.697665992	4	5.25E+00	-0.239521044	4
-0.899645925	2	4.25E+00	0	2
-2	5	4.95E+03	-0.855360868	5
-3	6	1.26E+06	-0.533774667	6
-0.612072755	4	3.70E+00	-0.929468752	4
0	1	3.73E-01	-0.01143908	1
0	1	3.73E-01	-0.008587802	1
-0.332264004	2	8.76E-01	-0.222415508	2
-0.987337408	3	9.65E+00	-0.613429923	3
0	5	2.81E-01	-0.228066931	5
0.001787571	3	3.22E-01	-0.136608985	3
0	1	3.73E-01	-0.010839279	1
-0.014072387	2	3.62E-01	-0.119888595	2
-0.251202587	6	1.02E+00	-0.760010186	6

-0.926478472	5	2.29E+01	-0.797307902	5
0.610940295	12	5.71E-04	-0.842854538	12
-0.585164069	6	6.19E+00	-1	6
-0.760774175	3	4.43E+00	-0.503238596	3
0.046808221	29	1.97E-02	0.170925341	29
-0.127579604	23	6.49E-01	0.242638872	23
-1	5	1.56E+02	1	5
-0.368674243	9	3.21E+00	1	9
-1	13	1.86E+04	0.057097818	13
-0.284662517	8	1.54E+00	-0.476519417	8
-2	6	9.22E+02	-1	6
-1	16	3.38E+04	-1	16
-2	12	6.00E+05	-1	12
-2	4	2.55E+02	-1	4
-0.049072379	10	2.93E-01	-0.344045145	10
-0.399836557	14	1.05E+01	-0.445519503	14
-0.418618509	6	2.52E+00	-0.320901554	6
-0.210779943	6	8.18E-01	0.249092028	6
-0.087368772	6	4.20E-01	-0.25637284	6
-3	6	2.96E+05	-2	6
-0.873847561	14	1.63E+03	-1	14
-1	9	3.33E+03	-1	9
-1	2	1.15E+01	-0.966293121	2
-0.022415379	1	3.91E-01	0	1
0.235722615	13	1.51E-02	-0.370230336	13
0.562309252	13	5.79E-04	-0.229724931	13
0.583233333	18	4.88E-05	-0.302003026	18
1	3	1.96E-03	-0.487513098	3
-0.037615262	17	1.93E-01	-0.087521271	17
-1	4	1.35E+02	-1	4
0.962066846	5	2.92E-03	-0.67410404	5
0.784836924	6	3.77E-03	-0.30600224	6
-0.039692583	9	2.84E-01	-0.061054076	9
0.117256521	33	2.58E-03	-0.370836172	33
-1	5	6.02E+01	-0.544641792	5
-0.359044211	9	2.99E+00	-0.82472797	9
-0.04625893	3	3.80E-01	-0.244931916	3
-1	21	9.86E+05	-0.662266373	21
-2	3	2.37E+02	-3	3
-0.156822305	1	5.21E-01	-0.08598129	1
-0.140556526	4	5.37E-01	-0.028882582	4
0.827530027	14	2.22E-05	0.742518203	14
-0.084966796	9	3.96E-01	0.718378899	9
-2	11	2.03E+08	-1	11
-0.691811908	30	1.07E+05	-0.795823065	30
-0.319502372	15	5.13E+00	-1	15
-0.460935669	4	1.99E+00	0.956857228	4

-1	7	1.34E+02	-0.871023584	7
-1	5	4.11E+01	-0.675059907	5
-0.753765077	3	4.32E+00	0.14074321	3
-0.215974481	4	7.31E-01	1	4
-1	8	2.84E+02	2	8
-0.16893095	5	6.27E-01	1	5
0.337787516	4	7.57E-02	2	4
-0.437479513	9	5.33E+00	-0.222455021	9
0.732533356	9	9.57E-04	0.393822023	9
2	18	4.20E-12	0.135527824	18
0.277700262	12	1.28E-02	-0.121257127	12
0.383309863	27	3.82E-05	0.445302566	27
0.299769248	7	3.97E-02	0.34991462	7
-0.574860592	21	5.77E+02	0.023713237	21
-0.80455576	6	2.03E+01	-0.551120094	6
0.253764742	3	1.35E-01	0.448628309	3
2	8	8.41E-06	0.536403111	8
0.021144767	25	4.68E-02	-0.144595702	25
-0.528046211	4	2.62E+00	0.043003995	4
-0.028982137	8	2.76E-01	-1	8
-0.660067502	13	1.17E+02	-0.801053877	13
-1	3	1.35E+01	-0.920671237	3
-0.784571139	3	4.81E+00	-0.980972902	3
-0.338875261	12	4.05E+00	-1	12
-0.231767559	14	1.75E+00	-0.377999873	14
-0.184337166	4	6.42E-01	-0.243359728	4
-1	4	2.03E+01	-0.1260768	4
0.541905056	13	7.10E-04	-0.534805573	13
0.728103972	5	8.86E-03	0.233132274	5
-0.56715035	7	7.59E+00	0.152008607	7
-0.857877825	6	2.70E+01	-1	6
-0.545547175	4	2.82E+00	-0.275785983	4
0.266633483	1	2.12E-01	0.10633318	1
-0.478437896	16	3.94E+01	-0.033845412	16
0.546328017	8	5.80E-03	-1	8
2	11	7.08E-10	-0.770923478	11
0.032429208	10	1.52E-01	-0.118925604	10
-0.105469124	3	4.66E-01	-0.022289657	3
-0.52396193	4	2.58E+00	-0.431012155	4
-0.090445482	9	4.13E-01	-0.219621438	9
-0.446113127	5	2.34E+00	1	5
1	4	2.50E-03	-2	4
0.931802224	31	6.78E-11	-0.916548761	31
0.263208692	7	4.95E-02	-0.931496934	7
-0.174859365	8	7.36E-01	-1	8
-0.75584162	8	3.64E+01	-1	8
-0.521290531	6	4.38E+00	-0.237458933	6

-0.151397434	6	5.94E-01	-0.365774775	6
-0.914964213	15	4.30E+03	-2	15
-0.998711283	33	4.06E+08	-1	33
0.650724395	35	4.24E-09	-1	35
0.355571751	15	2.49E-03	-0.562912875	15
0.714764725	8	1.87E-03	-0.344660126	8
0.73202893	16	2.04E-05	0.396923208	16
0.189063791	3	1.69E-01	-0.054053903	3
0.850115345	8	7.54E-04	0.262717923	8
1	8	2.50E-05	-0.021381272	8
0.587331454	5	1.73E-02	0.098382543	5
0.922632733	3	1.36E-02	0.035560834	3
0.320685162	1	1.89E-01	0.236797946	1
0.773839574	15	2.20E-05	-0.925670491	15
-0.084322246	2	4.40E-01	-1	2
-0.201023542	13	1.19E+00	-1	13
0	1	3.73E-01	0	1
0	2	3.48E-01	0	2
-0.288329119	2	7.76E-01	-0.043245933	2
-0.574206999	3	2.33E+00	-0.276472506	3
0.744947173	2	4.37E-02	0.522704427	2
-0.554447113	10	1.69E+01	-0.248668655	10
0.493763794	15	5.22E-04	-0.251062974	15
-0.735312975	24	2.28E+04	-2	24
1	3	4.05E-03	-0.995072504	3
0.290467878	2	1.55E-01	-0.093178339	2
0.05162929	2	3.01E-01	0.037683462	2
0.276685659	3	1.25E-01	0.343031934	3
-0.130952022	61	1.22E+00	0.779509893	61
0.259136832	9	3.14E-02	3	9
-0.153995826	5	5.84E-01	-0.242327823	5
0.009597334	23	6.71E-02	-0.487916485	23
-2	22	3.44E+09	-0.820163357	22
-0.572630209	3	2.32E+00	1	3
0.316251824	12	8.94E-03	0.832928893	12
-0.225959903	5	8.22E-01	0.932881819	5
-0.292418274	2	7.84E-01	-0.595857073	2
-0.190377445	1	5.60E-01	-0.263994387	1
-1	6	6.23E+02	-1	6
-2	12	1.47E+07	-1	12
-0.34889828	3	1.08E+00	-0.161706173	3
-0.860979963	2	3.82E+00	-0.019621797	2
-1	24	9.96E+07	-1	24
-0.673201692	6	9.96E+00	-0.684082305	6
-0.532571013	5	3.53E+00	-0.308677924	5
-0.999645299	20	2.08E+05	-0.841518154	20
0.051302266	8	1.61E-01	-0.428947506	8

-0.528733977	58	7.71E+06	0.273081399	58
-0.42990043	13	1.17E+01	3	13
-1	7	3.57E+02	2	7
-0.916416564	9	1.82E+02	-0.600823071	9
0.427205358	1	1.50E-01	0.6966157	1
0.913377053	10	1.29E-04	0.523388246	10
1	19	1.25E-08	1	19
-0.386227573	7	2.53E+00	0.174255242	7
-0.20119094	8	8.78E-01	-0.146084136	8
-0.045070875	42	7.57E-02	0.909045198	42
-0.022482741	3	3.50E-01	-0.24374886	3
-0.53010032	15	5.54E+01	-0.49396069	15
-1	12	6.90E+03	-1	12
-0.585100452	11	2.96E+01	-0.443425702	11
-1	7	2.31E+02	-0.365140688	7
0.599534825	18	3.93E-05	1	18
-0.973750966	11	8.63E+02	0.812938072	11
-0.232095755	31	7.02E+00	0.374902357	31
1	7	6.18E-05	0.99723074	7
-0.306616737	14	3.89E+00	-0.017339467	14
0.419785592	28	1.34E-05	0.552714949	28
-0.987075148	38	5.53E+09	1	38
-0.946347286	21	1.66E+05	0.462914086	21
0.448543862	20	1.40E-04	1	20
-0.722351439	12	1.46E+02	-0.291783224	12
-0.09999273	1	4.62E-01	-0.069299866	1
1	41	4.96E-17	2	41
2	3	4.08E-04	1	3
0.337982801	11	9.78E-03	-0.066416287	11
-0.511840599	6	4.16E+00	-0.091405961	6
0.000363233	1	3.73E-01	-0.021228078	1
0.46865031	7	1.43E-02	-0.75677358	7
0.706319478	3	2.86E-02	-0.3456468	3
0.392218527	4	6.06E-02	-0.740748663	4
1	10	1.75E-05	-0.245001433	10
-0.712748724	16	6.49E+02	-0.336669107	16
1	7	8.06E-05	0.377322781	7
0.812613427	6	3.24E-03	0.368819399	6
0.524916428	6	1.54E-02	-0.261269663	6
-1	8	4.31E+03	-1	8
0.265735244	10	2.34E-02	-3	10
0.012481786	9	1.93E-01	-1	9
-0.60861864	8	1.35E+01	-1	8
-0.384400664	1	8.45E-01	-0.132315952	1
-0.107472578	10	4.68E-01	-0.322239665	10
-0.086359815	22	3.33E-01	0.140087273	22
-0.707578173	10	5.78E+01	-0.676170406	10

-0.502866157	11	1.45E+01	-0.404368993	11
-1	14	1.77E+04	-0.841438009	14
-0.992162695	6	5.58E+01	-1	6
-2	9	8.27E+06	-2	9
-1	13	4.04E+05	-2	13
-0.016425569	5	3.04E-01	0.071157352	5
-0.464043655	7	4.06E+00	0.463483863	7
-1	1	8.35E+00	0.226006789	1
-0.692901046	8	2.39E+01	0.00498318	8
-0.848355889	11	2.90E+02	-0.586420929	11
-0.853579974	6	2.64E+01	-0.971198641	6
-0.70555999	23	9.25E+03	-0.573564601	23
-0.583182747	53	1.39E+07	1	53
-0.533840535	29	2.88E+03	-0.813016622	29
-1	4	3.85E+01	-2	4
-0.101009279	1	4.63E-01	-0.216532321	1
-2	5	7.06E+02	-0.798762453	5
-0.417805125	3	1.36E+00	-0.947277479	3
-1	14	5.49E+05	-1	14
-3	12	4.70E+09	-3	12
-0.439709606	6	2.82E+00	-0.956706371	6
-1	2	9.68E+00	-2	2
-1	2	2.01E+01	-1	2
0.327861222	11	1.07E-02	1	11
0.317932111	20	9.43E-04	-1	20
-1	37	4.31E+11	-0.312572095	37
-0.744426534	22	1.16E+04	0.982877851	22
-0.936082223	8	1.22E+02	-0.83222729	8
-0.437549114	7	3.46E+00	-0.573920085	7
-0.620393038	2	1.95E+00	-0.021473123	2
-0.931872695	17	1.53E+04	0.886794299	17
0.629014551	9	2.05E-03	2	9
-0.364560955	2	9.59E-01	-0.284902562	2
0	3	3.24E-01	-0.064398534	3
-0.923521492	18	2.35E+04	-0.548185158	18
-2	7	6.54E+05	-2	7
-0.534095199	13	3.32E+01	-0.651214108	13
-0.048811261	4	3.69E-01	-1	4
-1	6	1.41E+02	-0.840448688	6
-0.846629919	17	5.23E+03	0.411735526	17
-0.009845877	4	3.14E-01	0.567952735	4
-1	7	1.13E+03	0.17572978	7
-0.451952821	18	4.51E+01	1	18
0.065108452	4	2.31E-01	0.148974628	4
-0.502466513	34	5.52E+03	-0.546640101	34
-0.208282356	9	9.83E-01	-0.102951734	9
-0.511241658	20	1.68E+02	-0.933794887	20

-0.570353306	18	2.17E+02	-0.67257225	18
-0.297168921	14	3.52E+00	-1	14
0.513856395	1	1.25E-01	-0.040763042	1
1	10	4.28E-06	-1	10
0.478087542	3	6.26E-02	-0.671332624	3
-0.051071071	3	3.86E-01	-0.225999519	3
1	19	5.76E-08	-0.411269386	19
0.54635448	5	2.10E-02	-0.424344408	5
-2	6	2.43E+03	-1	6
0.621958216	8	3.49E-03	0.182708545	8
-0.734112335	14	3.69E+02	-0.904072528	14
-0.890955601	13	1.17E+03	-0.561878201	13
-2	12	2.97E+06	-2	12
-1	9	8.88E+02	-1	9
-0.61618737	23	2.11E+03	-1	23
-0.333368076	2	8.79E-01	-0.165424739	2
2	9	1.53E-06	-0.393397593	9
-0.315154591	9	2.16E+00	-0.006857652	9
-0.010903387	11	2.02E-01	0.328758294	11
-0.200289391	7	8.21E-01	-0.821386636	7
-2	10	1.65E+06	-2	10
-2	208	1.24E+102	-2	208
-4	1	2.68E+03	-3	1
-1	3	4.76E+01	-0.935576276	3
-0.937470293	6	4.15E+01	-1	6
0.426022608	8	1.30E-02	0.189975015	8
0.602236734	1	1.04E-01	-0.683830544	1
-0.413205958	8	3.65E+00	-0.232008503	8
-0.288177979	11	2.24E+00	0.701024785	11
0.626935519	19	1.69E-05	0.919708921	19
0.204946624	38	1.22E-04	-0.801090239	38
0.457563115	10	5.02E-03	-0.234545191	10
-0.133857345	4	5.22E-01	-0.026990706	4
0.427738481	27	1.63E-05	0.418712029	27
-1	5	9.53E+01	0.083895835	5
-2	12	5.45E+06	-2	12
-0.158143358	4	5.77E-01	-0.156369281	4
-0.501526075	18	8.70E+01	-0.324107393	18
-2	6	1.04E+03	-2	6
-0.653228532	7	1.28E+01	0.33737726	7
0.225326774	23	1.89E-03	0.325256208	23
1	8	4.31E-05	1	8
2	5	1.22E-04	0.668842325	5
1	6	1.15E-04	0.164737043	6
-0.080015302	16	3.36E-01	0.327497178	16
-0.917827535	10	3.12E+02	0.46774515	10
0.148427928	8	8.39E-02	0.715635398	8

-0.28154688	28	1.47E+01	0.401311473	28
-0.667301314	15	2.61E+02	-0.56858699	15
-0.939716507	5	2.44E+01	-0.468590975	5
-2	4	2.51E+03	-1	4
0.204435145	30	6.37E-04	0.092602286	30
-0.174619061	6	6.73E-01	0.438522266	6
1	8	1.21E-04	0.680478447	8
-0.956423249	12	1.29E+03	0.099231806	12
-0.652761468	16	3.17E+02	1	16
-0.681504791	11	6.82E+01	0.563933688	11
-0.554032542	18	1.75E+02	0.169961378	18
-0.542952446	14	4.82E+01	-0.134418013	14
0.297180814	17	2.83E-03	-0.059330358	17
-0.936202374	15	5.46E+03	-0.384130698	15
-2	17	2.37E+07	-1	17
-0.106570998	21	4.59E-01	0.38340541	21
-0.635968985	5	5.76E+00	-0.480830221	5
-0.282353625	26	1.18E+01	1	26
-0.956989006	27	5.49E+06	-2	27
-0.496728731	11	1.37E+01	-0.642241966	11
-0.31458887	3	9.55E-01	-0.245006896	3
-0.39448691	10	4.68E+00	-0.134512464	10
-0.367153449	8	2.68E+00	-0.331701421	8
-0.076229924	14	3.35E-01	-0.168367602	14
-0.351989757	3	1.09E+00	0.04370929	3
-0.142377715	5	5.53E-01	-0.260300584	5
-0.104997988	7	4.61E-01	-0.580910665	7
0	6	2.62E-01	0	6
1	6	1.33E-04	0.223919659	6
0.903795735	5	3.85E-03	0.638585455	5
-0.047550216	3	3.81E-01	-0.16795027	3
0.140696734	15	2.82E-02	0.685149748	15
0.567257789	3	4.61E-02	0.613485612	3
1	2	1.30E-02	0.623860782	2
0.058959326	25	2.38E-02	0.029282725	25
-0.046588489	6	3.37E-01	-0.295666145	6
-0.001538811	2	3.49E-01	0.117682158	2
0.474531366	14	9.50E-04	-0.846872109	14
0.243136618	3	1.40E-01	-0.371935802	3
-0.264638201	10	1.65E+00	-0.261254758	10
-0.493090535	6	3.76E+00	-0.091359294	6
0.216986735	8	5.30E-02	-0.155195293	8
-0.150258864	7	6.07E-01	-0.647468857	7
0.54005013	10	2.59E-03	-0.491487638	10
0.344008593	20	6.45E-04	0.078110948	20
0.368454761	9	1.40E-02	-0.372770162	9
-0.037004642	9	2.78E-01	-0.179556831	9

-0.258830077	9	1.43E+00	-0.660489429	9
-0.316645295	7	1.66E+00	0.374509637	7
0.119096382	28	5.21E-03	0.406640206	28
-0.296789711	2	7.94E-01	-2	2
-0.823988082	18	6.28E+03	-2	18
-1	25	1.06E+09	-0.772229187	25
0.022677679	26	4.18E-02	0.358757075	26
-0.137048266	38	1.01E+00	0.889369433	38
0.32279733	1	1.88E-01	-0.368503299	1
0.226318175	10	3.21E-02	0.258568267	10
-0.856347846	9	1.17E+02	-0.49007712	9
-0.49504984	4	2.29E+00	-0.418326012	4
-0.318436099	4	1.11E+00	-1	4
-0.296690614	4	1.02E+00	-0.732334592	4
-0.146240647	14	7.06E-01	-0.104452427	14
0.813540741	3	1.98E-02	0.218483536	3
-0.177683436	1	5.45E-01	-0.183581773	1
-0.533626759	19	1.76E+02	-0.344900712	19
0.154546092	21	8.60E-03	0.223600345	21
-0.033318413	11	2.46E-01	0.954817147	11
-0.85812231	10	1.93E+02	1	10
0.525450726	10	2.91E-03	1	10
0.798386648	18	2.81E-06	0.514193291	18
1	2	1.49E-02	0.420896844	2
0.791633006	6	3.63E-03	0.247278085	6
0.321927615	7	3.47E-02	-0.066701321	7
-0.122261564	5	5.02E-01	-0.025445635	5
-0.349823659	3	1.08E+00	-0.13570908	3
-0.45790942	5	2.47E+00	0.437880221	5
-0.350977301	5	1.49E+00	0.093442777	5
0.057991268	29	1.57E-02	0.234768222	29
-0.801908311	12	3.06E+02	-1	12
-1	9	4.16E+02	-0.029579827	9
-0.853863011	2	3.74E+00	-0.492895603	2
-1	17	5.65E+05	-0.895110759	17
-0.71222318	38	3.92E+06	0.469022342	38
0	5	2.81E-01	0	5
0	4	3.02E-01	0	4
0	24	7.33E-02	0	24
0	5	2.81E-01	0	5
-0.012881305	4	3.18E-01	-0.005377104	4
-0.326476773	4	1.15E+00	0.025905338	4
-0.166766205	14	8.78E-01	-0.09451104	14
-1	9	9.81E+02	-0.777162994	9
0.03829366	3	2.84E-01	-0.005393625	3
-0.13302489	9	5.65E-01	-0.12955029	9
0.022976022	2	3.26E-01	-0.00379387	2

-0.017986985	3	3.45E-01	-0.003786785	3
-0.555001566	4	2.93E+00	-0.542536674	4
0.343974771	11	9.28E-03	0.630134866	11
0.478561334	4	4.26E-02	0.073944266	4
-1	10	1.07E+04	-0.58047784	10
-0.394751595	12	6.83E+00	1	12
-0.575211225	23	1.07E+03	-0.081283182	23
-1	12	1.19E+04	-0.628133532	12
-0.202778086	6	7.84E-01	-0.562179423	6
-0.662483388	5	6.54E+00	-0.112922291	5
-0.089143569	18	3.66E-01	0.431663594	18
-0.410128761	3	1.33E+00	0.45695202	3
-0.677498962	17	6.19E+02	-0.436075903	17
-0.257718835	3	7.86E-01	-0.29218691	3
-0.905992207	20	5.31E+04	-0.001639698	20
0.004013395	4	2.97E-01	0.532098251	4
-2	5	4.61E+02	-0.699049993	5
-0.196794353	15	1.28E+00	-0.867294569	15
0.851701193	25	1.69E-08	0.747604962	25
0.045978895	15	8.24E-02	-0.015599537	15
-0.531254837	27	1.57E+03	-0.161175188	27
-0.37447145	37	4.45E+02	0.802671398	37
-0.148256807	2	5.25E-01	-0.272390862	2
-0.512294127	27	1.09E+03	-0.414229428	27
-0.199062455	75	4.72E+01	0.496426198	75
-1	1	7.72E+00	0.770597349	1
-0.405951641	3	1.31E+00	0.704719886	3
-0.645143448	2	2.09E+00	-0.555175337	2
-0.103070601	20	4.37E-01	0.085671983	20
-0.249723016	44	3.45E+01	0.018974267	44
-0.297045381	5	1.15E+00	-0.113806792	5
0.994826307	17	4.27E-07	-0.595072737	17
1	14	1.19E-06	-0.252493291	14
-0.864263951	6	2.80E+01	-0.610665385	6
-0.536657894	3	2.05E+00	-0.601351445	3
-0.479417004	11	1.18E+01	-2	11
-0.32652559	8	2.04E+00	-1	8
0.184694375	7	7.97E-02	0.031896023	7
-0.445120081	20	6.40E+01	-0.129195311	20
-1	13	4.98E+05	-0.815297996	13
-0.739230485	10	7.45E+01	-0.526937602	10
-0.393445253	8	3.19E+00	0.182157627	8
-0.928498975	2	4.61E+00	-0.248975596	2
0.290469414	32	6.13E-05	2	32
0.152393023	7	9.69E-02	1	7
0	1	3.73E-01	0.015894797	1
0	1	3.73E-01	0	1

-0.063625423	3	4.03E-01	-0.039737475	3
-0.813434099	65	1.50E+13	-0.412620848	65
-0.375853598	7	2.38E+00	0.227401167	7
-0.047813728	15	2.38E-01	1	15
-0.188114446	10	8.93E-01	0.228827272	10
-0.113038549	9	4.87E-01	0.154385575	9
-0.426911265	12	9.22E+00	-0.159533065	12
-0.254334504	24	5.82E+00	-0.848372206	24
0.836934491	7	1.53E-03	-0.38625213	7
-0.294764172	5	1.14E+00	-0.647071174	5
-0.882807502	9	1.42E+02	-0.79261996	9
0.717182683	7	3.16E-03	-0.223588561	7
0.34664938	11	9.07E-03	-0.203064343	11
0.648007459	14	1.50E-04	-0.816144094	14
0	2	3.48E-01	0	2
0	3	3.24E-01	0	3
-3.57E-05	3	3.24E-01	-7.08E-05	3
-0.032491564	1	4.00E-01	-0.064319814	1
-0.6081155	2	1.89E+00	-2	2
-0.317135681	1	7.33E-01	-0.168877599	1
0.067610529	2	2.88E-01	-0.00134215	2
0.024614892	9	1.77E-01	-0.611632094	9
0.897829191	7	1.06E-03	-0.529633675	7
-0.145815425	7	5.91E-01	-0.799411291	7
-0.978703879	10	5.09E+02	-0.904968897	10
-0.085116163	4	4.28E-01	-0.057761683	4
-1	12	6.87E+03	-0.959774478	12
0.551336791	6	1.33E-02	-0.102992996	6
0.069302893	3	2.55E-01	-0.678802959	3
-0.291395002	3	8.82E-01	-0.361966101	3
0	5	2.81E-01	0	5
-0.961265946	3	8.83E+00	-0.036958166	3
-0.846811533	3	5.95E+00	-0.223255658	3
0	5	2.81E-01	0	5
-0.019427442	2	3.67E-01	-0.00912981	2
-0.047964527	4	3.67E-01	-0.21262382	4
-0.577654549	5	4.37E+00	0.088740797	5
-0.598161207	2	1.84E+00	-0.398588417	2
0	3	3.24E-01	0	3
-0.095512749	3	4.50E-01	-0.042555282	3
-0.15092002	2	5.29E-01	-0.006435243	2
-0.590485137	7	8.74E+00	-0.735582329	7
0.248657561	7	5.41E-02	-0.152888765	7
-0.845278997	9	1.08E+02	-0.919439707	9
0.138075487	4	1.71E-01	-0.343867455	4
0.159772767	4	1.57E-01	-0.183059999	4
0.250005189	6	6.78E-02	-0.188654781	6

0.602183719	7	6.35E-03	-0.510240377	7
0.554461241	8	5.49E-03	-0.464431792	8
-0.567863446	5	4.17E+00	-0.619559619	5
-0.380229951	7	2.44E+00	-0.415165283	7
-0.159114031	62	4.04E+00	0.951306844	62
-2	9	6.57E+04	-0.632539722	9
0.103641968	15	4.29E-02	-0.74564762	15
-0.225124801	2	6.51E-01	-0.348617896	2
-0.316728809	2	8.39E-01	-0.126391995	2
-0.549182527	4	2.86E+00	-0.436631646	4
-0.190711959	9	8.64E-01	-0.419052894	9
-0.127056961	4	5.08E-01	-0.581943668	4
-1	7	5.15E+02	-0.704315474	7
-0.972514938	4	1.62E+01	-0.360497236	4
-0.912723181	4	1.27E+01	-0.793708385	4
-1	9	1.11E+03	-1	9
-0.428483351	4	1.74E+00	-0.285707509	4
-0.900814892	3	7.17E+00	-0.651561939	3
-1	6	7.42E+01	-0.584808645	6
-0.304912319	13	3.36E+00	-0.544829199	13
-0.179192481	15	1.05E+00	-0.204674624	15
-1	21	9.63E+07	-1	21
0.049489837	4	2.46E-01	-0.701068505	4
-0.37336415	7	2.34E+00	0.006178845	7
-0.793534349	8	4.69E+01	-0.709496802	8
-0.987391473	7	9.68E+01	-0.406914969	7
0.34573966	11	9.14E-03	0.435869678	11
0.059206165	2	2.95E-01	0.005130116	2
-0.169110872	6	6.53E-01	0.035109901	6
-0.162048751	15	8.65E-01	-0.067712672	15
-1	8	9.12E+02	-0.114406067	8
-0.300301419	18	6.02E+00	-0.55159424	18
0.160520039	4	1.56E-01	-0.08183531	4
0.263073005	5	8.06E-02	-0.850366404	5
-1	16	1.91E+06	-2	16
0	14	1.49E-01	0	14
0.081309007	14	6.26E-02	0.007476217	14
0.911164845	7	9.76E-04	0.423785009	7
-0.59254978	4	3.41E+00	0.12516848	4
-0.463133457	10	8.12E+00	0.072836129	10
-0.404942305	37	9.75E+02	-0.033999142	37
-0.594933132	4	3.45E+00	-0.509323465	4
-0.686841547	8	2.29E+01	-0.193153928	8
-0.439915508	9	5.42E+00	0.304072759	9
-0.292657848	3	8.86E-01	-0.31083188	3
-0.551127114	3	2.15E+00	-2	3
-0.271468444	14	2.68E+00	-0.41339256	14

-0.228247047	13	1.56E+00	-0.459541894	13
-0.015638949	2	3.63E-01	-0.006531013	2
-0.525029998	16	6.88E+01	-0.161871107	16
0	5	2.81E-01	0.021151645	5
-0.410291595	7	2.93E+00	0.714540997	7
-0.229819051	29	5.69E+00	-0.099013953	29
0.166226061	12	3.63E-02	0.031385958	12
0.495250987	10	3.71E-03	0.161677149	10
3	11	9.94E-12	1	11
-0.211040575	17	1.72E+00	-0.173982593	17
-0.585859106	4	3.32E+00	-0.204761424	4
-0.147824617	9	6.30E-01	-0.039332348	9
-0.265603208	10	1.66E+00	-0.325393276	10
-0.317820705	5	1.27E+00	-0.472003675	5
-0.16428361	11	7.65E-01	-2	11
0.416159998	5	3.90E-02	-0.392835169	5
-0.331186349	9	2.43E+00	-0.08714673	9
-0.443470819	33	1.09E+03	0.2744394	33
-0.144129344	24	8.74E-01	0.045421301	24
-0.032423947	11	2.44E-01	0.040534286	11
0.975188885	27	4.51E-10	-0.132257928	27
1	9	6.88E-05	-0.392584557	9
1	6	1.08E-03	0.254482965	6
0.521524929	11	1.99E-03	-0.23991137	11
-0.236468061	19	2.81E+00	-0.214822267	19
1	11	7.23E-07	2	11
1	8	1.18E-04	-0.115410768	8
-0.480844891	3	1.69E+00	-0.143921524	3
-2	12	8.27E+05	-0.77564358	12
-1	16	6.31E+04	-0.738545988	16
-0.648268532	3	3.01E+00	-0.166580584	3
-0.937886515	24	7.44E+05	-0.81622914	24
-0.207811026	11	1.12E+00	-0.389673714	11
-0.493147865	10	1.03E+01	-0.218967247	10
-0.713657839	4	5.60E+00	-1	4
0.296111474	13	8.28E-03	0.097826725	13
0.593080577	9	2.68E-03	-0.086017095	9
2	2	3.60E-03	1	2
0.756298901	2	4.24E-02	0.252348997	2
0.082181308	3	2.44E-01	0.113229758	3
-0.03096819	11	2.41E-01	0.013092079	11
-0.42150823	5	2.08E+00	0.334225623	5
-0.656592536	12	7.88E+01	0.731008149	12
-0.121161962	8	5.13E-01	0.417347177	8
-0.27793384	2	7.53E-01	-0.133056145	2
0.129420428	2	2.43E-01	0.72857814	2
-0.270626783	6	1.13E+00	-0.02426573	6

0.176429842	5	1.22E-01	-0.144019847	5
-0.17662145	16	1.07E+00	-0.325106833	16
-1	10	2.17E+03	-3	10
-0.003682156	7	2.50E-01	-0.087614268	7
-0.778674419	13	3.82E+02	-0.191931613	13
-0.161729262	9	6.98E-01	0.403555907	9
-0.353128446	11	3.94E+00	-0.599746911	11
-0.337847339	10	2.97E+00	-0.127692904	10
-0.225504637	15	1.77E+00	-0.113518389	15
0	4	3.02E-01	0.199373231	4
-0.618749912	11	3.96E+01	-0.529078219	11
-0.170260029	43	2.98E+00	-0.519176635	43
-0.003458822	19	1.10E-01	-0.094820133	19
-0.217704932	3	6.85E-01	-0.282665839	3
-0.058438977	1	4.23E-01	-0.016443683	1
0.144293286	8	8.63E-02	0	8
-0.223396175	11	1.28E+00	-1	11
-0.512143983	8	7.09E+00	-0.865871161	8
-1	7	2.32E+02	-1	7
-0.190875782	90	7.04E+01	-0.196718317	90
0.08323506	5	1.89E-01	0.166224106	5
-0.712622428	17	9.64E+02	-0.588428574	17
-1	2	1.38E+01	0.369953835	2
-0.32011419	7	1.70E+00	0.157297313	7
-0.189793476	14	1.12E+00	-0.326575777	14
-0.253144312	7	1.13E+00	-0.729658782	7
-0.039713555	12	2.48E-01	0.015142508	12
0.083354008	51	5.91E-04	0.010175067	51
0.242208234	13	1.42E-02	-0.350577674	13
-1	28	2.40E+07	-0.756263084	28
-0.808335346	58	4.81E+11	-0.479529957	58
-0.339772349	5	1.41E+00	-0.295850979	5
-1	7	4.31E+02	-0.928171078	7
-0.01216821	4	3.17E-01	-0.009010692	4
-0.15858037	4	5.78E-01	-0.135090124	4
-0.047400382	3	3.81E-01	-0.037176023	3
-0.924086336	4	1.33E+01	-0.873070723	4
-0.295475915	2	7.91E-01	-0.031724808	2
-0.712554902	4	5.58E+00	-0.303145434	4
-0.292337466	2	7.84E-01	-0.435747026	2
-1	7	7.69E+02	-0.661740173	7
-0.632115561	5	5.66E+00	-0.196830683	5
-0.736943936	7	2.12E+01	-0.331193118	7
0.002207805	4	2.99E-01	0.000405228	4
0	3	3.24E-01	0.065909605	3
-0.289010931	15	3.63E+00	-0.46990418	15
0.287858713	7	4.26E-02	-0.042245077	7

-0.411627902	7	2.96E+00	-0.9772911	7
1	10	3.64E-05	-0.396582374	10
0.666923151	3	3.27E-02	-0.118717683	3
0	2	3.48E-01	-0.318570157	2
-0.428564443	5	2.15E+00	-0.050935923	5
-0.460341004	2	1.25E+00	-0.505073152	2
-0.044487809	1	4.10E-01	-0.392460195	1
0	3	3.24E-01	-0.119778956	3
-0.51063668	10	1.19E+01	-0.345532469	10
-0.118577277	2	4.84E-01	-0.496639476	2
-0.717384236	4	5.69E+00	-0.076399749	4
-0.645308152	8	1.73E+01	-0.530752113	8
-0.53947254	9	1.13E+01	-0.494787604	9
-0.666712845	7	1.39E+01	-0.658757961	7
-1	11	1.77E+03	-0.286411393	11
-0.69066739	7	1.60E+01	1	7
-0.590959476	9	1.65E+01	0.006945983	9
-0.422411764	4	1.70E+00	0.884003655	4
-0.295692679	4	1.01E+00	-0.078446167	4
0.743674139	16	1.77E-05	-0.747476856	16
-0.693557282	7	1.63E+01	-0.775603601	7
-0.3657138	3	1.14E+00	0.018384643	3
-0.232344376	40	1.47E+01	-0.285758965	40
-0.002029645	4	3.04E-01	-0.352818529	4
0.057245871	5	2.14E-01	-0.599701224	5
2	5	1.99E-04	0.694142878	5
-0.311989958	14	4.12E+00	0.378041757	14
0.200636533	12	2.63E-02	0.158456325	12
0.799819308	4	1.14E-02	0.085227777	4
-0.216294974	4	7.32E-01	-0.105905814	4
-0.812436876	7	3.35E+01	-0.653668272	7
-0.071396035	16	3.03E-01	-0.018348458	16
-0.067283452	3	4.08E-01	-0.117005101	3
-0.084716098	6	4.14E-01	-0.090103678	6
-0.218978319	9	1.06E+00	-0.052769512	9
-0.184314826	26	1.93E+00	-0.192206102	26
-0.047498095	7	3.25E-01	-0.625309881	7
0.048612365	6	2.01E-01	-0.037421769	6
-0.409359019	2	1.09E+00	-0.142906814	2
0.882705635	13	2.36E-05	0.2175221	13
-0.032894541	4	3.45E-01	-0.112621013	4
2	2	7.50E-04	0.529972428	2
1	12	9.83E-07	0.86375718	12
0.298700126	29	1.13E-04	2	29
-0.069595023	9	3.54E-01	-0.065916315	9
-0.238561573	11	1.46E+00	-0.077043988	11
-0.284010128	56	3.89E+02	-0.374098955	56

-0.33280391	55	2.16E+03	0.494043395	55
-0.614751348	6	7.26E+00	-0.846735893	6
0.188774101	9	5.27E-02	-0.1683375	9
0.038071804	6	2.13E-01	-0.159572282	6
0.027209205	30	2.70E-02	-0.033785116	30
0	5	2.81E-01	0.17649726	5
-0.090427915	7	4.22E-01	-0.048924892	7
-0.069190315	6	3.81E-01	-0.178031871	6
-0.560613998	10	1.78E+01	-0.44889181	10
0.492522244	28	3.17E-06	-0.937207594	28
-0.191369937	1	5.61E-01	-0.841813937	1
-0.43513189	52	5.28E+04	-0.423649951	52
0.406835628	23	9.37E-05	1	23
0.096844691	15	4.64E-02	0.044759821	15
0.65785323	9	1.66E-03	0.713991613	9
-0.590306899	25	2.58E+03	0.558684317	25
-1	4	2.47E+01	-0.136320909	4
0	1	3.73E-01	0.001851849	1
-0.296474485	4	1.02E+00	-0.119091213	4
0.053832915	25	2.61E-02	0.234027363	25
0.014997914	1	3.61E-01	0.001959357	1
-0.316646808	5	1.26E+00	-0.500405431	5
-0.055751457	5	3.66E-01	-0.204930842	5
0	5	2.81E-01	-0.002726644	5
-1	14	4.43E+04	-0.737588087	14
-0.23497846	9	1.20E+00	-0.411333706	9
0.074680365	7	1.55E-01	-0.160322034	7
-0.077673927	9	3.76E-01	-0.370866548	9
-0.083091853	8	3.97E-01	-0.185015568	8
-0.613451916	3	2.67E+00	-0.418839749	3
-0.494388118	11	1.34E+01	-0.642426182	11
0.331755193	5	5.82E-02	-0.344598795	5
0.042916785	18	6.34E-02	-0.199244564	18
-0.999294344	5	3.24E+01	-0.589160981	5
-0.738729601	13	2.56E+02	-0.865730677	13
-1	11	2.97E+03	-0.57789264	11
-1	16	4.41E+04	-2	16
-0.047451739	8	3.13E-01	-0.171498299	8
0.007165019	5	2.72E-01	0.000384335	5
-0.128398308	3	5.04E-01	-0.134063844	3
0.029290629	7	2.04E-01	-0.130820082	7
-0.001762745	4	3.04E-01	0	4
-0.218266602	5	7.93E-01	-0.001145056	5
0.115896649	9	9.02E-02	-0.211401021	9
-0.192815119	25	2.14E+00	1	25
-0.418514106	62	2.24E+05	-0.30433174	62
0.221835688	5	9.80E-02	-0.043482128	5

-0.306046829	10	2.30E+00	-0.162802631	10
-0.459619015	24	1.99E+02	-0.663468469	24
-0.084901727	2	4.40E-01	0	2
-0.42859331	6	2.66E+00	-0.121628291	6
-0.017241123	2	3.65E-01	-0.390526222	2
-0.201346069	9	9.34E-01	-0.027967031	9
-0.694825292	16	5.24E+02	0.66819032	16
-0.310153301	16	5.27E+00	0.648676637	16
-0.201822469	11	1.06E+00	-0.046565037	11
-0.364221288	24	3.85E+01	-0.424960893	24
0.563847918	24	4.49E-06	-0.26034338	24
-0.016159843	2	3.64E-01	-0.002275132	2
-0.287912134	4	9.81E-01	-0.057857761	4
-0.021574184	2	3.69E-01	0.021293452	2
0	2	3.48E-01	0	2
-0.250026656	2	6.97E-01	-0.064050375	2
-0.04198227	1	4.08E-01	-0.019566711	1
-0.421396532	21	5.56E+01	-0.510465248	21
-0.119901416	6	5.01E-01	-0.01126177	6
-0.062951452	15	2.82E-01	-0.128779226	15
-0.132101832	4	5.18E-01	-0.040926663	4
-0.322882161	39	1.57E+02	0.236203346	39
0	2	3.48E-01	-0.040979586	2
-1	16	4.32E+04	-0.986431055	16
-0.660489362	5	6.47E+00	-0.345465301	5
0.093302339	5	1.81E-01	-0.140223417	5
-0.012917805	3	3.39E-01	0.00169899	3
-0.193423989	2	5.96E-01	-0.167701243	2
-0.24705315	6	9.96E-01	-0.045775789	6
-0.173005681	7	6.96E-01	0.0407053	7
-0.25612516	8	1.27E+00	-0.315874646	8
-0.847871063	10	1.78E+02	-0.576741074	10
-0.329303839	2	8.69E-01	-0.005437286	2
-0.00865235	2	3.56E-01	-0.02155422	2
-0.202615557	3	6.50E-01	-0.0851925	3
0.065307172	3	2.59E-01	0.045375064	3
1	7	4.29E-05	0.937848139	7
0.409867093	1	1.56E-01	0.070747549	1
0.730861345	3	2.63E-02	-0.849688568	3
0.29237059	3	1.19E-01	0.077277835	3
-0.362896265	34	2.00E+02	0.544672524	34
0	2	3.48E-01	-0.011993443	2
0	3	3.24E-01	-0.053066518	3
6.87E-05	6	2.62E-01	-0.135348776	6
0.06215637	19	4.39E-02	0.389993734	19
0.089551677	5	1.84E-01	1	5
-0.040671197	31	1.08E-01	0.063859978	31

-0.204472453	10	1.02E+00	0.047326077	10
0	2	3.48E-01	-0.008384168	2
-0.487549955	13	2.08E+01	-0.435854835	13
0.023099169	3	2.99E-01	-0.059568209	3
0.779064681	3	2.22E-02	-0.101213122	3
-0.350267779	18	1.17E+01	-0.341890954	18
-0.379036065	12	5.90E+00	-0.220453426	12
-0.284207301	18	4.87E+00	-0.162013607	18
-0.459680607	7	3.96E+00	0.005680789	7
-0.182169937	5	6.68E-01	-0.358732071	5
-0.628847508	15	1.69E+02	-0.63698459	15
-0.063354847	7	3.58E-01	0.041531122	7
-0.079063336	8	3.87E-01	0.386281948	8
-1	7	1.59E+03	0.060651145	7
-2	7	3.34E+03	-0.309084585	7
-0.202292505	9	9.41E-01	-0.592362845	9
0.22460029	3	1.50E-01	0.177026747	3
0.345171232	8	2.24E-02	0.429071948	8
-2	5	1.05E+03	-0.754131208	5
-0.945687383	5	2.51E+01	-0.265425802	5
-2	3	7.90E+01	-1	3
-2	3	1.10E+02	-1	3
0.103329136	17	3.27E-02	0.322786461	17
0.984019627	10	7.33E-05	2	10
-0.427915028	11	7.55E+00	0.67307547	11
-0.409367016	4	1.61E+00	-0.348894864	4
-0.281004376	2	7.60E-01	-0.560425376	2
0	6	2.62E-01	0.336083342	6
-0.02375581	4	3.33E-01	-0.125909657	4
0.085746376	1	3.11E-01	-0.012109151	1
-0.656679268	14	1.62E+02	1	14
-0.016892019	4	3.23E-01	0.065890827	4
2	15	3.01E-13	0.969641821	15
2	4	7.25E-05	1	4
0.112309618	7	1.24E-01	0.659942597	7
-0.109394396	42	4.89E-01	0.733887142	42
0.435241902	7	1.75E-02	0.937278244	7
-0.460274606	1	9.93E-01	0.298317924	1
-0.098652404	9	4.38E-01	-0.030036569	9
-0.211831015	12	1.24E+00	-0.145173953	12
0.588681663	39	3.11E-09	-0.261900591	39
-0.130070209	10	5.61E-01	0	10
0	1	3.73E-01	-0.015814687	1
-0.300279926	8	1.71E+00	-0.655599408	8
0.228583192	4	1.18E-01	-2	4
0.196325518	2	2.01E-01	-0.449951058	2
0.208615345	7	6.89E-02	-0.079413182	7

-0.341821013	5	1.43E+00	-0.293305993	5
-0.405012227	4	1.58E+00	-0.017258977	4
-0.703355528	21	4.08E+03	0.117234124	21
-0.093451883	26	3.59E-01	-0.212301828	26
-0.338073689	4	1.20E+00	-0.539716827	4
-0.978523664	7	9.18E+01	-2	7
-0.133797225	14	6.18E-01	0.180603408	14
-0.154335807	37	1.55E+00	0.758056261	37
-0.149926909	35	1.31E+00	-0.052041499	35
0.010688161	2	3.38E-01	-0.008455228	2
1	23	8.30E-12	0.23204347	23
0.154336876	41	2.77E-04	0.327065456	41
-0.189782074	10	9.05E-01	-0.173987344	10
-0.178239402	4	6.26E-01	-0.217207645	4
-0.036136711	2	3.84E-01	-0.18760062	2
-0.112885333	10	4.88E-01	-0.293384953	10
-0.735631306	6	1.40E+01	-0.236670133	6
-0.046767299	17	2.17E-01	-0.091109525	17
0.136506078	11	5.62E-02	-0.057333545	11
-0.53172576	8	8.08E+00	-0.592061525	8
-0.889992644	7	5.37E+01	-0.434538045	7
0	1	3.73E-01	-0.020525485	1
0	1	3.73E-01	-0.193189757	1
-0.007328811	3	3.32E-01	-0.051460089	3
0	3	3.24E-01	-0.004929913	3
0	1	3.73E-01	-0.010299245	1
-0.4144316	5	2.01E+00	0.006098333	5
-0.127601048	3	5.02E-01	-0.043438924	3
-0.683660265	10	4.77E+01	-0.567157373	10
-0.218627777	2	6.39E-01	-0.13104793	2
-0.389520116	6	2.15E+00	-0.109433885	6
-0.100361366	7	4.48E-01	-0.113100112	7
0.0128393	6	2.44E-01	0.013334747	6
0.038620118	8	1.75E-01	-0.092823174	8
-0.05953103	9	3.29E-01	-0.057201956	9
-0.227327743	12	1.43E+00	-0.798173869	12
-0.129326464	33	7.68E-01	-0.095398791	33
-0.229183417	18	2.34E+00	-0.596705736	18
-1	3	1.36E+01	-1	3
0.017813866	19	8.14E-02	-0.366821045	19
0	12	1.71E-01	-0.011398936	12
0	1	3.73E-01	0	1
-0.068178951	4	3.99E-01	-0.259272921	4
-0.156598526	25	1.12E+00	0.804574747	25
-0.172244901	10	7.86E-01	-0.089183697	10
0.429277887	1	1.50E-01	1	1
0	1	3.73E-01	-0.005019518	1

-0.332234195	3	1.02E+00	-0.182763971	3
-0.237697073	18	2.63E+00	-0.28746933	18
2	3	9.51E-04	0.246018634	3
0.053426599	4	2.43E-01	0.054218928	4
3	3	1.68E-05	0.393858548	3
0.324737927	2	1.41E-01	0.023275366	2
0.045337456	6	2.05E-01	0.146806625	6
-0.418193415	6	2.51E+00	-0.363899477	6
-0.519631127	10	1.28E+01	-0.345985592	10
0.029509309	15	9.92E-02	-0.107480811	15
-1	9	1.22E+03	-0.633914769	9
0	1	3.73E-01	0	1
0.045430533	6	2.05E-01	-0.02667047	6
-0.045888077	8	3.09E-01	-0.174855922	8
-1	5	5.01E+01	-0.316612982	5
-0.137596234	17	6.82E-01	-0.054574624	17
0.003999312	21	8.52E-02	-0.002154152	21
0.096529963	4	2.03E-01	0.156208398	4
-0.014607134	6	2.83E-01	0.158208168	6
-0.091361578	18	3.77E-01	0.020363612	18
-0.521999771	2	1.49E+00	-0.081727177	2
0.00134314	11	1.82E-01	-0.118606004	11
-0.19511785	13	1.12E+00	-0.158697465	13
-0.879636937	15	2.88E+03	-0.548846578	15
0	1	3.73E-01	0.011276876	1
0.118577902	6	1.38E-01	-0.062897724	6
-0.017641316	1	3.87E-01	-0.007364098	1
-0.020560676	1	3.90E-01	-0.017124786	1
0	1	3.73E-01	0	1
-0.079386485	7	3.95E-01	-0.091616619	7
-0.132161261	7	5.44E-01	-0.135973344	7
-0.043903167	3	3.77E-01	0	3
-0.427055478	1	9.26E-01	0	1
-0.448831212	7	3.70E+00	-0.83439194	7
-0.116169442	2	4.80E-01	-0.817453409	2
-2	3	7.23E+01	0.649945426	3
-1	1	6.47E+00	-0.61030654	1
-0.66369177	2	2.20E+00	-0.202786783	2
0.174057051	56	9.89E-06	0.254283211	56
0	1	3.73E-01	-0.067312285	1
-0.204709689	3	6.55E-01	-0.182833828	3
-0.697742752	19	1.73E+03	0.571361863	19
-0.157761091	5	5.95E-01	-0.077282291	5
0.288630583	3	1.20E-01	-0.369505866	3
0.25740598	11	1.97E-02	-0.423564218	11
0	5	2.81E-01	0	5
-0.260848907	18	3.57E+00	-0.12705782	18

-0.712050601	11	8.90E+01	-0.486891321	11
0	4	3.02E-01	-0.060332566	4
0	3	3.24E-01	0.336317061	3
0.057536945	7	1.72E-01	-0.097324641	7
-0.03030279	7	2.93E-01	-0.038412161	7
2	8	2.64E-08	2	8
1	6	1.02E-04	1	6
-0.243083376	11	1.52E+00	-0.386377402	11
-0.399961879	2	1.06E+00	0.205177996	2
-0.354447338	4	1.29E+00	-0.11329119	4
0.262156492	4	1.03E-01	-0.290808394	4
-0.174809468	10	8.03E-01	-0.031738572	10
-0.382785218	3	1.21E+00	-0.185682403	3
-0.098031613	5	4.48E-01	0.020951429	5
-0.214750648	7	8.97E-01	-0.516524551	7
0.803679525	6	3.40E-03	-0.153749768	6
0.047565501	53	1.68E-03	0.454943553	53
-0.282908943	3	8.57E-01	-0.114564589	3
-0.349333358	6	1.73E+00	-0.41711587	6
-0.140440295	8	5.84E-01	-0.055101522	8
0.169742637	13	2.93E-02	-0.942490128	13
-0.180317968	2	5.74E-01	-0.085303475	2
-0.034763175	9	2.74E-01	-0.039284234	9
-1	9	2.44E+03	-0.511953625	9
-0.017036572	1	3.87E-01	-0.007110789	1
-0.275226564	7	1.29E+00	-0.226707405	7
-0.029934073	2	3.78E-01	-0.02621463	2
0.104286008	7	1.30E-01	-0.136643259	7
-0.06998536	9	3.55E-01	-0.067845743	9
-1	7	1.16E+02	-1	7
-0.066007588	7	3.64E-01	-0.082097244	7
0	3	3.24E-01	-0.003423856	3
0.050370757	5	2.21E-01	-0.008550881	5
-0.420784244	5	2.07E+00	-0.301940649	5
-0.063713922	4	3.92E-01	-0.871423874	4
-0.236433928	3	7.30E-01	-0.254263551	3
-0.68893614	6	1.08E+01	-1	6
0.242623864	5	8.88E-02	-0.962807445	5
-0.163722321	4	5.90E-01	-0.245519093	4
-0.24992604	3	7.65E-01	-0.453065803	3
0	1	3.73E-01	-0.363538256	1
0	4	3.02E-01	0	4
-0.225245815	5	8.19E-01	-0.001170306	5
-0.187263321	4	6.50E-01	-0.057211273	4
-0.611677449	3	2.65E+00	-0.925327532	3
-0.21393362	4	7.25E-01	-0.294851315	4
-0.2592824	8	1.30E+00	-0.443185541	8

-0.123351555	2	4.90E-01	-0.531923319	2
-1	7	1.86E+02	-0.973601916	7
-0.008585965	5	2.93E-01	-0.093151474	5
0	5	2.81E-01	0	5
-1	2	6.72E+00	-0.207249937	2
-0.926648492	5	2.29E+01	-0.666547157	5
0.044808355	1	3.39E-01	0.166520956	1
-0.034783977	4	3.48E-01	-0.015155804	4
3	6	2.88E-07	2	6
-0.082523079	5	4.16E-01	-0.038660209	5
-0.003160591	10	2.02E-01	0.028644463	10
-0.120810187	8	5.12E-01	-0.093327813	8
0	3	3.24E-01	-0.012048783	3
-0.680915276	10	4.66E+01	-0.579511159	10
-0.001970768	6	2.65E-01	0.109813084	6
0.000403537	1	3.73E-01	0.202004575	1
0.125961714	9	8.37E-02	0.527464935	9
0.086963655	5	1.86E-01	0.10763945	5
-0.014147284	2	3.62E-01	-0.003497488	2
-0.317049676	11	2.88E+00	-0.130863194	11
0	1	3.73E-01	0	1
0	1	3.73E-01	0	1
-0.150725142	22	9.26E-01	-0.162346708	22
-0.069548653	10	3.45E-01	-0.066985945	10
-0.686356765	12	1.04E+02	-0.552571801	12
-1	2	6.55E+00	-0.183924818	2
-0.044487809	1	4.10E-01	0	1
0	1	3.73E-01	-0.010299245	1
-0.079962526	2	4.34E-01	-0.205296098	2
-0.161286557	18	9.52E-01	-0.109295907	18
0.138858806	33	1.57E-03	0.633302738	33
0.130454406	1	2.83E-01	0.005819885	1
0.389172366	13	3.27E-03	-0.026933518	13
0	3	3.24E-01	-0.046125466	3
-0.709890934	12	1.30E+02	-0.7195983	12
0.056655156	5	2.15E-01	-0.23984715	5
0.751451608	20	1.70E-06	-0.483523087	20
2	10	2.59E-07	-0.526554251	10
0.835324862	4	9.88E-03	-0.510039642	4
0.302560391	21	9.02E-04	0.146073445	21
-0.054799057	2	4.05E-01	-0.057410822	2
-0.370243453	4	1.37E+00	-0.056994132	4
0.023453195	40	1.23E-02	0.004934932	40
-0.093741084	5	4.39E-01	0.005778423	5
0	4	3.02E-01	-0.372177182	4
0	2	3.48E-01	0	2
-0.050630398	7	3.32E-01	-0.672249401	7

0.430836453	8	1.26E-02	-0.389278224	8
-0.159401146	2	5.42E-01	-0.197385692	2
0	3	3.24E-01	-0.00843343	3
-0.036800812	1	4.04E-01	0	1
0.099602251	28	7.66E-03	0.141938469	28
0.047491271	32	1.43E-02	0.154009451	32
-0.089772907	10	4.06E-01	-0.101537198	10
0.135919778	7	1.07E-01	-0.241440163	7
-1	3	1.70E+01	-0.756627601	3
-0.206713024	2	6.18E-01	-0.1571297	2
-0.074358516	4	4.09E-01	-0.238969894	4
-0.235155092	4	7.90E-01	-0.401429527	4
-0.056802327	5	3.68E-01	-0.188816255	5
-0.186240238	2	5.84E-01	-0.263760599	2
-1	1	3.30E+00	-0.224967347	1
0.492105247	3	5.97E-02	-0.21272819	3
-0.754344738	17	1.63E+03	-0.425718547	17
-0.450278141	20	6.90E+01	0.162760409	20
-0.633723189	5	5.70E+00	-0.904545387	5
0	10	1.97E-01	0.11033563	10
-0.078209003	14	3.42E-01	0.068300897	14
0	4	3.02E-01	-0.096591251	4
-0.136504653	41	1.05E+00	-0.099459492	41
-0.42432387	19	3.84E+01	-0.480296014	19
-0.036803218	2	3.85E-01	-0.005125422	2
0.023197468	41	1.14E-02	-0.103726001	41
-1	5	3.42E+01	-0.660452856	5
0.06805418	6	1.81E-01	-0.376454806	6
-1	5	8.64E+01	-0.637575638	5
-2	4	4.15E+02	-0.6045674	4
-0.051459911	7	3.33E-01	-0.783346779	7
-0.019699871	3	3.47E-01	-0.006963083	3
-0.750694946	10	8.17E+01	-0.290637032	10
-0.029283478	1	3.97E-01	-0.00090938	1
-0.029283478	1	3.97E-01	-0.00090938	1
-0.042581817	1	4.09E-01	-0.008960027	1
0.121494233	14	4.08E-02	-0.232971781	14
-0.016068082	7	2.69E-01	-0.004047919	7
-0.252270085	23	5.11E+00	0.12505072	23
-0.385045344	4	1.46E+00	0.189523943	4
-0.284004261	2	7.66E-01	0.109247387	2
-0.002585528	5	2.85E-01	0.015256326	5
0	3	3.24E-01	0.049213133	3
0.003127894	8	2.23E-01	0.021915423	8
-0.327351764	11	3.15E+00	-0.12121682	11
0.118751868	27	6.08E-03	0.085834688	27
0.50311869	16	3.15E-04	0.124184364	16

0.849142164	12	6.17E-05	0.191038998	12
-0.002280093	7	2.47E-01	-0.011735901	7
0.021689433	18	8.40E-02	0.208331459	18
0	6	2.62E-01	-0.690339934	6
-0.047278856	15	2.36E-01	-0.016550647	15
-0.073866087	18	2.99E-01	-0.275955407	18
-0.562946086	5	4.07E+00	-0.205641313	5
-0.516777339	4	2.50E+00	-0.531390634	4
-0.72965117	4	5.98E+00	-0.721037506	4
-0.356837431	6	1.80E+00	-0.584269212	6
1	37	5.29E-14	-0.369980144	37
0.766057618	5	7.40E-03	-0.123215851	5
-0.339317836	5	1.41E+00	-0.353427877	5
-0.010676635	15	1.56E-01	0.196605087	15
-1	4	3.67E+01	-0.816295671	4
-0.521203007	3	1.94E+00	-0.563223557	3
-0.329213677	10	2.77E+00	-0.199083981	10
-0.016163919	4	3.22E-01	0.009428707	4
-0.971208869	17	2.52E+04	0.033584386	17
0.467594479	8	9.84E-03	-0.524074301	8
-0.711761809	17	9.53E+02	-0.406477929	17
0.123031418	10	7.35E-02	-0.742602528	10
-0.601683891	4	3.54E+00	-0.588976308	4
-0.211691774	6	8.22E-01	-1	6
0.441996231	20	1.55E-04	0.283086844	20
-0.561993403	11	2.42E+01	-0.318201883	11
-0.303587947	5	1.19E+00	-0.444812628	5
0.955676483	1	4.89E-02	-0.608389128	1
2	21	5.46E-18	2	21
0.955585538	18	3.49E-07	0.181682309	18
-0.324954562	16	6.29E+00	-1	16
0.229182046	13	1.62E-02	0.269537521	13
0.126141702	1	2.85E-01	-0.003778872	1
-1	25	1.80E+07	0.053716612	25
-0.29302017	5	1.13E+00	0.374993094	5
0.365581577	9	1.43E-02	-0.841323644	9
-0.487123404	12	1.62E+01	-0.414879669	12
-0.325808099	13	4.14E+00	-0.095471369	13
-2	2	2.82E+01	-0.91237195	2
2	28	4.50E-16	-0.696008849	28
0.590160859	7	6.83E-03	-0.256626621	7
-0.953838961	3	8.60E+00	0.368594391	3
-0.709788248	9	3.96E+01	0.33714055	9
-0.340142813	1	7.69E-01	0.117265706	1
0.339249469	6	4.19E-02	0.069631127	6
0.207047535	10	3.75E-02	0.036046171	10
-0.211832417	4	7.18E-01	-0.043438499	4

-0.136749171	2	5.09E-01	-0.019782481	2
0.027923147	3	2.94E-01	0	3
0.172614598	2	2.15E-01	0	2
0	3	3.24E-01	-0.020668979	3
-0.052675921	10	3.01E-01	-0.327795678	10
-0.277010473	5	1.05E+00	-0.225222403	5
-1	6	1.31E+02	-0.677491293	6
-0.130484377	9	5.54E-01	-0.422844255	9
-1	14	1.19E+04	-0.773222801	14
-0.190111372	9	8.60E-01	-0.012107344	9
0.086803565	4	2.12E-01	-0.25037986	4
0.274852051	6	5.93E-02	0.178499506	6
0.273111834	5	7.69E-02	0.091568919	5
-0.001060277	12	1.73E-01	-0.459090534	12
0.635013854	4	2.24E-02	-0.177227867	4
-0.74038801	4	6.25E+00	-0.882849467	4
-0.877882018	16	4.68E+03	-1	16
1	12	1.11E-05	-0.878375506	12
0.433962424	2	1.04E-01	-0.220184799	2
0.030695924	1	3.50E-01	-0.22890664	1
-0.126628213	18	6.01E-01	-0.1606513	18
-0.033996102	2	3.82E-01	-0.177683546	2
-0.267044091	9	1.52E+00	-0.291051296	9
0.080126889	10	1.04E-01	-0.423871634	10
-0.00354112	3	3.28E-01	0.048683095	3
0.277737184	1	2.07E-01	-0.634765166	1
1	7	9.28E-05	-0.46132465	7
-0.055984582	4	3.80E-01	-0.389352874	4
-1	19	5.26E+06	-2	19
-0.029960574	9	2.64E-01	-0.764283767	9
-0.606414314	4	3.61E+00	-0.539589897	4
1	7	3.91E-05	-0.129082785	7
3	5	2.36E-08	-0.42927369	5
-0.072803639	4	4.07E-01	0.251211626	4
0.276495705	6	5.88E-02	-0.021480405	6
-0.509182896	16	5.69E+01	-0.626935002	16
-1	5	5.03E+01	-1	5
-0.026198266	3	3.54E-01	-0.479095546	3
-0.4356084	8	4.24E+00	-0.493020493	8
-1	20	8.28E+06	-1	20
-0.524469238	13	3.01E+01	-0.100013725	13
-0.646111387	7	1.22E+01	0.369289711	7
-0.030771051	1	3.98E-01	0.576281268	1
-0.008300598	55	1.11E-02	1	55
0	1	3.73E-01	0	1
-0.153517124	6	6.01E-01	-0.648343215	6
-0.26173437	15	2.67E+00	0.111662151	15

-0.244329348	9	1.28E+00	-0.246395849	9
-0.691658102	4	5.12E+00	-0.310641949	4
-0.429641993	43	6.52E+03	-0.20370683	43
2	2	1.63E-03	0.844024075	2
-0.260816596	35	1.96E+01	-0.131370271	35
0.73541603	16	1.96E-05	0.089933427	16
-0.946131556	12	1.18E+03	-0.176600002	12
-0.587080797	3	2.44E+00	0.001623193	3
-0.260547943	16	2.91E+00	-0.213197324	16
-0.347756796	21	1.81E+01	-0.415064357	21
-1	11	3.04E+04	-0.992420489	11
-0.015376484	2	3.63E-01	0.010384507	2
-0.15953869	10	7.10E-01	-0.260604487	10
-0.204930699	27	3.01E+00	0.00106825	27
0.027779131	25	4.16E-02	-0.028504416	25
0.07924599	19	3.46E-02	-0.042865754	19
-0.281551772	21	6.61E+00	0.037095438	21
0.075060391	51	7.89E-04	0.114959116	51
-0.013171931	9	2.33E-01	-0.004763978	9
0.085313001	14	5.99E-02	-0.019139674	14
0.243240296	13	1.40E-02	-0.786496438	13
-0.021755232	4	3.30E-01	-0.123186365	4
-0.211596294	7	8.80E-01	-0.074828069	7
-0.424290903	17	2.54E+01	-0.21008042	17
-1	11	1.27E+04	-1	11
0.202607689	6	8.76E-02	-0.662414053	6
0	1	3.73E-01	0	1
-0.082729088	6	4.10E-01	-0.037219085	6
-0.820047574	17	3.74E+03	-0.445751225	17
-0.637448504	5	5.80E+00	-0.192789921	5
-0.028397564	8	2.75E-01	-0.289038536	8
-0.300193382	11	2.49E+00	-0.373352541	11
-0.456351907	6	3.09E+00	-0.511970721	6
-0.127900735	10	5.51E-01	1	10
-0.710937935	9	4.00E+01	0.515504318	9
-0.432132616	14	1.48E+01	0.163863393	14
-0.098228812	13	4.26E-01	-0.135851787	13
-0.63166895	12	6.24E+01	-0.804718757	12
1	32	1.06E-14	-2	32
0.010064716	4	2.90E-01	-0.114410209	4
-2	24	9.50E+10	-1	24
-0.025828037	20	1.42E-01	-0.011286763	20
-0.175739657	12	8.84E-01	-0.002332093	12
-1	22	1.91E+06	-0.967028551	22
-0.625958926	22	1.76E+03	-0.952229462	22
-1	17	9.60E+04	-0.917872571	17
-0.065361756	19	2.59E-01	-0.417912751	19

0.807039361	8	1.01E-03	-0.473045136	8
0.309289532	9	2.17E-02	-0.268922179	9
-0.123965592	6	5.12E-01	-0.320705358	6
-2	6	1.89E+04	-1	6
-0.544760229	7	6.62E+00	-0.12979247	7
-0.003935847	4	3.07E-01	-0.112733125	4
-0.554292409	12	3.03E+01	-0.88662082	12
0.034155861	4	2.62E-01	0	4
1	4	6.85E-04	-0.013719411	4
1	12	6.30E-06	-0.984112751	12
0.36445482	4	6.79E-02	-0.578576122	4
-0.75663783	9	5.60E+01	-1	9
-0.106824354	12	4.64E-01	-0.016152974	12
-1	8	2.27E+02	-0.299483752	8
-0.227807431	8	1.05E+00	-0.081317258	8
-0.451490693	1	9.75E-01	-0.040763042	1
-0.404873998	8	3.45E+00	-1	8
0.198559706	5	1.10E-01	0.045833875	5
-0.403196396	7	2.81E+00	-0.875342656	7
0.606146795	4	2.52E-02	-0.840261827	4
-0.101654978	5	4.56E-01	-0.36845939	5
-0.134052106	10	5.79E-01	-0.465658925	10
0.368833412	18	8.39E-04	-1	18
0	3	3.24E-01	-0.020254128	3
0	2	3.48E-01	0	2
0.980991366	3	1.11E-02	-0.355169054	3
0.715825851	5	9.39E-03	-0.223763657	5
-0.090566261	8	4.18E-01	-0.013098365	8
0.010132788	12	1.56E-01	-0.187079817	12
-0.442482546	6	2.86E+00	-0.495019509	6
0.029174398	9	1.71E-01	-0.819412704	9
0	3	3.24E-01	-0.129355752	3
-0.310995061	8	1.84E+00	-0.994813915	8
-0.096203048	7	4.37E-01	-0.342642874	7
-0.50541651	6	4.02E+00	-0.252919987	6
-1	7	5.77E+02	-1	7
-2	6	2.57E+04	-1	6
-1	9	7.54E+03	-0.618848137	9
0.018905902	1	3.58E-01	-0.054609192	1
-0.080213189	3	4.27E-01	-0.682698598	3
0	4	3.02E-01	-0.371232574	4
0.258234265	7	5.10E-02	-0.566937644	7
0.105096131	4	1.96E-01	-0.214999901	4
-0.548809379	9	1.21E+01	-0.783749694	9
-0.590852017	2	1.80E+00	-0.500783231	2
-0.540455977	5	3.66E+00	0.074530366	5
-0.438177972	9	5.35E+00	-2	9

-0.232413994	5	8.48E-01	-0.142788852	5
0.543777949	5	2.13E-02	-0.89003722	5
-0.020066114	6	2.92E-01	0.137899942	6
-0.618248628	8	1.44E+01	-0.663363	8
-0.340104669	8	2.23E+00	-0.445760931	8
-2	10	3.11E+05	-1	10
0.582237847	6	1.13E-02	0.119268146	6
-0.559071969	12	3.17E+01	-0.326271339	12
0.677620143	7	4.02E-03	-0.377685748	7
-0.533779682	3	2.03E+00	-0.281899376	3
0	5	2.81E-01	-0.200275476	5
-0.239435668	8	1.14E+00	-0.172849154	8
-0.431395715	7	3.33E+00	-0.262464622	7
0.217992381	10	3.43E-02	-0.396184915	10
-0.995955075	8	1.83E+02	-1	8
0.317323741	4	8.23E-02	-0.259822312	4
-0.717327677	8	2.81E+01	-1	8
0.588447921	7	6.90E-03	-0.206000843	7
0.081116139	7	1.49E-01	-0.299351744	7
-0.810082239	8	5.24E+01	-0.576714204	8
-0.466297184	4	2.04E+00	-0.220473969	4
-0.037966288	3	3.69E-01	-0.005401827	3
-0.027852782	3	3.56E-01	-0.04886316	3
-0.067483889	8	3.58E-01	-1	8
0	1	3.73E-01	-0.007636122	1
0.472466527	6	2.04E-02	0.084806212	6
-0.2882878	3	8.73E-01	-0.709574577	3
-0.303644158	6	1.35E+00	-0.271134851	6
-0.758627136	5	1.03E+01	-0.371765771	5
-2	4	4.26E+03	-2	4
-0.703242632	2	2.46E+00	-0.50999516	2
0.209688939	7	6.85E-02	-2	7
-1	5	1.91E+02	-0.92692534	5
-0.248417711	4	8.34E-01	-0.281746419	4
0.06834175	6	1.81E-01	-0.356475352	6
-0.093902817	5	4.39E-01	0	5
-0.640867363	9	2.38E+01	-0.648355375	9
-0.244914153	4	8.22E-01	-0.247367766	4
-0.221744482	5	8.06E-01	-0.918152546	5
0.686612618	5	1.08E-02	-0.390631459	5
-0.155820969	5	5.89E-01	0	5
-0.495441702	6	3.81E+00	-0.299777302	6
-0.02331574	3	3.51E-01	-0.071014596	3
-0.524074423	2	1.49E+00	-0.706583642	2
-1	8	1.35E+03	-1	8
-0.428769161	14	1.43E+01	-0.886573708	14
-0.413771266	5	2.01E+00	0.095771716	5

0.215955029	9	4.31E-02	-0.199604005	9
-0.306567834	8	1.78E+00	-0.817398961	8
-0.264584609	5	9.88E-01	-0.921795157	5
-0.158624941	3	5.59E-01	-0.109854007	3
-0.168613064	3	5.78E-01	-0.138247118	3
-0.138585297	10	6.00E-01	0.147129178	10
0.124688243	7	1.15E-01	-0.390915512	7
-1	4	9.71E+01	-1	4
0.259536976	4	1.04E-01	-0.821675271	4
0.357045615	13	4.50E-03	-0.786601844	13
0.07013748	3	2.55E-01	-0.407239685	3
-0.397263827	2	1.05E+00	-0.57279789	2
0	1	3.73E-01	0	1
0.008432057	3	3.15E-01	-0.339770117	3
-0.402363492	6	2.30E+00	-0.274252436	6
-0.027165572	12	2.21E-01	-0.364085072	12
-0.314290049	7	1.64E+00	-0.541755377	7
-0.587866323	25	2.47E+03	-2	25
-0.872407975	12	5.91E+02	-0.886401994	12
-0.109427603	4	4.72E-01	-0.001420304	4
-0.003212133	5	2.85E-01	-0.005457511	5
0.589663854	7	6.85E-03	-0.477122453	7
0	3	3.24E-01	-0.001869717	3
0	2	3.48E-01	0	2
-0.646498256	8	1.75E+01	-0.67977461	8
-0.454904471	8	4.82E+00	-1	8
-0.162720616	3	5.67E-01	-0.269710564	3
-0.007344493	2	3.55E-01	-0.008001172	2
-0.096123298	1	4.58E-01	-0.040763042	1
-1	11	5.94E+04	-0.93026982	11
-0.358717871	31	1.11E+02	-0.140064727	31
-0.345272632	8	2.31E+00	-0.506617873	8
-0.791083703	6	1.88E+01	-0.224269579	6
-0.791329679	2	3.14E+00	-0.440618783	2
0.287928872	2	1.56E-01	-0.010930773	2
-0.872534699	5	1.77E+01	-0.470077123	5
-0.597281081	5	4.80E+00	-0.324845995	5
-0.428502362	12	9.36E+00	-0.491658878	12
-0.895391023	14	2.06E+03	0.343035005	14
-2	2	3.58E+01	0.000569493	2
-0.313452062	6	1.43E+00	-0.114504769	6
-0.284120893	7	1.37E+00	0.083609424	7
-0.001030908	4	3.03E-01	-0.085525027	4
-0.032171948	4	3.44E-01	-0.000511396	4
0	8	2.27E-01	-0.247301789	8
-0.299411616	4	1.03E+00	-0.194149071	4
-0.110459185	8	4.77E-01	-0.234814093	8

-1	3	1.12E+01	-1	3
-0.395698639	9	3.91E+00	-0.52208868	9
-0.354544723	3	1.10E+00	-0.333906753	3
0.236778752	6	7.29E-02	-0.167501513	6
0	2	3.48E-01	0.014054748	2
-0.433855437	9	5.19E+00	-0.088058586	9
0.000322793	18	1.12E-01	-0.355207405	18
0.23259363	4	1.16E-01	-0.050183915	4
-0.005251822	4	3.08E-01	-0.001135598	4
-1	6	1.98E+02	-0.632800899	6
-0.186881151	2	5.85E-01	-0.080794913	2
-0.207178781	5	7.52E-01	-0.521058299	5
-0.056321273	4	3.80E-01	-0.066061889	4
-0.169355588	9	7.38E-01	-0.047864912	9
-0.367521426	5	1.61E+00	-0.872060059	5
-0.250655517	4	8.42E-01	-0.308700818	4
-0.662076511	5	6.52E+00	-0.57224958	5
0.28867268	4	9.26E-02	-0.151572354	4
-0.196050397	23	2.02E+00	-0.355410129	23
0.099996681	21	1.97E-02	-0.606507626	21
-0.064565683	20	2.49E-01	0.026534089	20
0.00817415	11	1.71E-01	0.026060098	11
-0.251765335	14	2.17E+00	-0.122539073	14
-0.002870505	14	1.53E-01	0.130740784	14
0	4	3.02E-01	0.012696475	4
-0.104947203	14	4.55E-01	-0.056452156	14
-0.109365343	31	4.84E-01	0.175816476	31
0	1	3.73E-01	0	1
-0.103613351	14	4.48E-01	0.007239055	14
-0.060634563	41	1.23E-01	-0.179761679	41
-0.012997606	8	2.48E-01	-0.01039083	8
-0.989245008	9	3.11E+02	-0.156430651	9
-0.096068052	14	4.14E-01	-0.154540055	14
0.164311149	25	3.63E-03	0.464388685	25
-0.087264874	5	4.26E-01	-0.104400991	5
-0.218209989	11	1.22E+00	-0.143220997	11
-0.204734691	5	7.43E-01	-0.09481458	5
-0.338961423	5	1.41E+00	-0.194360046	5
-0.123409444	7	5.16E-01	-0.142472216	7
-0.98296205	9	2.97E+02	-0.421789652	9
-0.074817283	4	4.10E-01	-0.149437603	4
-0.038322696	17	1.95E-01	-0.164932878	17
-0.063984037	6	3.70E-01	0.034829417	6
-0.182188138	28	2.04E+00	-0.174503165	28
-1	7	3.88E+02	-1	7
2	12	2.55E-11	-1	12
0.744581774	20	1.87E-06	-0.938446244	20

-0.954921031	17	2.05E+04	-0.466840305	17
0.448008325	6	2.33E-02	2	6
-0.223996353	14	1.61E+00	-0.251534564	14
-0.374862384	24	4.63E+01	-0.304123339	24
2	14	2.54E-10	-0.44786603	14
-0.115506145	15	5.11E-01	-0.764024409	15
-0.003633073	10	2.03E-01	-0.05191132	10
-0.491740381	49	1.86E+05	-0.266438481	49
-0.04146145	8	3.00E-01	-0.133612976	8
-2	5	9.29E+02	-0.207509528	5
-0.059914711	25	1.99E-01	-0.087582458	25
-0.448553453	3	1.51E+00	-0.365677211	3
-0.833187482	29	1.32E+06	0.540707932	29
0.082415236	7	1.48E-01	0.221273515	7
0.041100812	2	3.10E-01	0.018766683	2
0.077505353	21	2.78E-02	0.133005092	21
-1	6	1.13E+02	-0.206133331	6
-0.197063083	9	9.05E-01	-0.444739767	9
0.260288342	42	1.08E-05	-0.051669391	42
-0.224903503	25	3.79E+00	-0.193008008	25
-0.031945185	3	3.62E-01	0.186818752	3
-0.981186784	7	9.33E+01	0.759413351	7
-0.462137683	66	3.56E+06	-0.261768154	66
-1	22	4.54E+06	-0.25146381	22
-0.011317854	17	1.39E-01	1	17
0.118115964	35	1.88E-03	0.426518502	35
-2	2	4.56E+01	0.991459616	2
0.270126398	55	3.24E-07	1	55
-1	8	8.53E+02	-0.710620157	8
-0.506296578	12	1.94E+01	-0.20394275	12
-0.645065245	9	2.46E+01	-0.775667169	9
-0.460274606	1	9.93E-01	-0.018671552	1
-0.035069516	1	4.02E-01	0	1
-0.03039104	2	3.78E-01	-0.386859859	2
-0.030262002	2	3.78E-01	-0.039936115	2
-0.38592784	2	1.02E+00	-0.340781777	2
-0.947965219	2	4.86E+00	-0.663470501	2
-0.031624769	7	2.96E-01	-0.00089864	7
0.142022	5	1.43E-01	-0.11772415	5
0.828310127	3	1.88E-02	-0.320741642	3
-0.248185058	12	1.74E+00	-1	12
-0.452949247	5	2.42E+00	-1	5
-0.196330205	7	8.02E-01	0.219288851	7
0.012305241	10	1.79E-01	1	10
0.104010256	15	4.28E-02	0.495887296	15
-1	8	2.22E+03	-2	8
-0.264241177	10	1.65E+00	-0.084032016	10

-0.0661697	3	4.07E-01	-0.43051779	3
0.008176726	3	3.15E-01	0.050193033	3
-0.143173651	4	5.42E-01	-0.149331759	4
-0.112959888	4	4.79E-01	-0.394443261	4
-2	11	3.02E+06	-2	11
-2	7	5.61E+04	-1	7
-0.648416277	6	8.71E+00	-1	6
-0.744574873	5	9.65E+00	-0.268291733	5
-0.008713676	10	2.12E-01	-1	10
0	4	3.02E-01	0.000872869	4
-0.628504759	7	1.10E+01	-0.287987165	7
-0.37256624	10	3.93E+00	-0.360551173	10
0.163838743	10	5.30E-02	-0.273456317	10
-0.335385521	9	2.51E+00	-0.567923333	9
-0.220086633	5	8.00E-01	-0.105464818	5
-0.890080342	27	1.52E+06	-0.240750259	27
-1	2	1.35E+01	-0.910775066	2
-0.572213203	2	1.71E+00	-0.566961463	2
-0.647244318	20	1.22E+03	-0.451400751	20
-1	4	9.16E+01	-1	4
-0.170279596	4	6.06E-01	-0.006015778	4
-0.44960772	10	7.29E+00	-0.606218467	10
0.035395299	4	2.61E-01	-0.001110619	4
-0.069064118	7	3.71E-01	-0.957462499	7
-0.407606032	5	1.95E+00	-0.346579333	5
-0.655345001	11	5.44E+01	-1	11
0.55867286	6	1.28E-02	-0.550331815	6
-1	6	1.43E+02	-0.68071466	6
-2	8	6.08E+03	-0.728513076	8
-0.143249609	1	5.06E-01	-0.059102189	1
-0.504050367	12	1.90E+01	-0.349160494	12
-0.005115595	6	2.69E-01	-0.128329117	6
-0.655940562	5	6.34E+00	-0.642042163	5
-0.156892443	4	5.74E-01	-0.316063183	4
-0.028178381	10	2.47E-01	-0.043865682	10
-0.053342713	11	2.92E-01	-0.438313538	11
0.023916545	6	2.30E-01	-0.084742459	6
-0.01522765	6	2.84E-01	-0.003214412	6
-0.312489464	3	9.49E-01	0.013087438	3
-0.034257078	3	3.64E-01	0.001793348	3
-0.153643733	6	6.01E-01	-0.182866286	6
0.014431679	3	3.08E-01	-0.001336676	3
0.082543405	6	1.68E-01	-0.104428266	6
0.011848889	1	3.64E-01	-0.009810468	1
0.048232838	5	2.24E-01	-0.114537379	5
-0.031667139	4	3.44E-01	-0.263200768	4
-2	27	2.06E+19	-1	27

-1	22	1.08E+09	-1	22
-0.051984428	9	3.11E-01	-0.210855654	9
0	5	2.81E-01	0	5
0	3	3.24E-01	0.009990669	3
0.421554095	11	4.73E-03	-0.614007346	11
-0.317065738	10	2.51E+00	-0.554696149	10
-0.128499875	8	5.39E-01	-0.428011264	8
-0.027235326	4	3.37E-01	-0.010704628	4
-1	7	2.01E+02	-0.121036302	7
-0.015553871	2	3.63E-01	0	2
-0.459409583	6	3.14E+00	-0.260764905	6
0.036752121	15	9.14E-02	-0.162632765	15
-0.100539755	4	4.55E-01	-1	4
-0.754134561	5	1.01E+01	-0.66904073	5
0.028641393	3	2.94E-01	-0.002663126	3
-0.352883437	4	1.28E+00	-0.458748115	4
-0.63767035	11	4.66E+01	-0.710386727	11
-0.249498115	13	1.93E+00	-0.435427545	13
0.141810409	23	7.52E-03	-0.378937521	23
-1	5	4.03E+01	2	5
-0.285861608	3	8.66E-01	0.044218106	3
-0.362570565	2	9.54E-01	-0.021196482	2
-0.50719965	18	9.38E+01	-0.502786987	18
-0.501679538	9	8.55E+00	-0.446444533	9
-0.656688593	5	6.36E+00	-0.451327999	5
-0.002920741	7	2.48E-01	-0.006885494	7
-0.187381883	5	6.85E-01	-0.240341029	5
-0.793374926	5	1.22E+01	-0.002029444	5
-0.652399164	11	5.30E+01	-0.732152796	11
-0.714839577	5	8.38E+00	-0.52814823	5
-0.122809862	9	5.24E-01	-0.45176768	9
-0.001647126	13	1.62E-01	0.150715725	13
0.081690304	9	1.16E-01	0.45242674	9
-0.131309438	14	6.02E-01	-0.068623223	14
-0.852272637	8	6.96E+01	-0.537486082	8
0.039760306	6	2.11E-01	-0.328683051	6
-0.061242469	9	3.33E-01	0.169226584	9
-0.171797931	10	7.84E-01	-0.062317459	10
-0.67124584	5	6.81E+00	2	5
-0.135021864	4	5.25E-01	0.895878431	4
0.451593823	16	5.83E-04	0.383910221	16
0.109263113	14	4.65E-02	0.141823832	14
-0.302287614	32	3.68E+01	-0.115504073	32
-2	18	3.05E+11	-1	18
-2	10	6.16E+04	-2	10
-1	5	1.66E+02	-1	5
-0.49834646	8	6.46E+00	-0.262359712	8

-0.291708862	6	1.27E+00	-0.261314072	6
-0.115754511	4	4.85E-01	-0.253275467	4
-0.341176399	7	1.93E+00	-0.354296614	7
0.291184432	11	1.47E-02	-0.18089892	11
-0.479992056	16	4.02E+01	0.497859277	16
0	2	3.48E-01	0.001587337	2
-0.607506058	10	2.59E+01	-1	10
-0.409768833	6	2.40E+00	-0.520763675	6
-0.486852887	13	2.07E+01	-0.2027527	13
-0.259601121	8	1.30E+00	-0.888196737	8
-0.128569368	10	5.54E-01	-0.105814237	10
1	17	2.39E-08	-0.444659688	17
-0.481940129	14	2.52E+01	-1	14
-0.281329271	15	3.33E+00	-0.396299469	15
-0.503697124	8	6.69E+00	-0.423002304	8
-1	6	3.76E+02	-0.55880498	6
-0.32281331	2	8.54E-01	-0.206229378	2
-0.312227737	2	8.29E-01	-0.172172944	2
0	2	3.48E-01	0.010489668	2
-0.468090605	9	6.67E+00	0.412621281	9
-0.139537208	5	5.45E-01	0.400309347	5
-0.249376884	6	1.01E+00	-0.019061832	6
-0.990070903	3	9.74E+00	-0.363538256	3
-0.744616309	6	1.47E+01	-0.975464864	6
-0.368396912	4	1.36E+00	-0.1262072	4
-0.323613863	10	2.65E+00	-0.179574595	10
-0.919951336	7	6.44E+01	-2	7
-1	5	4.99E+01	-0.557475295	5
-0.994095659	11	1.03E+03	-1	11
0.069427572	12	8.96E-02	-0.032362215	12
-0.125663167	15	5.73E-01	0.275551188	15
-2	3	9.20E+01	-0.004801468	3
-2	19	2.59E+09	-0.284465392	19
-0.16927751	6	6.54E-01	-0.323085583	6
-2	10	8.62E+05	-1	10
-0.359606111	7	2.16E+00	-0.157557213	7
0.145650526	5	1.41E-01	-0.633392748	5
-1	6	3.37E+02	-0.994216865	6
-1	3	1.99E+01	-0.528131058	3
-0.371740603	9	3.28E+00	-0.194638249	9
-0.463588887	7	4.05E+00	-0.417211069	7
-0.485864338	10	9.75E+00	-0.30583865	10
-0.639675091	15	1.91E+02	-0.423455359	15
-0.333475156	7	1.84E+00	-0.213112353	7
1	2	9.11E-03	-1	2
0.537807253	2	7.79E-02	-0.32852504	2
-0.259454737	7	1.18E+00	-0.123349088	7

0.961925789	10	8.75E-05	-0.180406697	10
-0.244432959	21	3.75E+00	0.393415189	21
-1	1	3.44E+00	-0.675397066	1
0.619814678	3	3.85E-02	-0.19429124	3
-1	4	4.27E+01	-0.640172096	4
-0.12613418	2	4.94E-01	-0.089636404	2
-0.612862401	5	5.16E+00	-0.949782166	5
-0.013987411	2	3.61E-01	-0.063009833	2
0	2	3.48E-01	0	2
-0.022415379	1	3.91E-01	-0.009365982	1
-0.164734413	2	5.50E-01	-0.058348158	2
-0.494178502	5	2.94E+00	-0.025075442	5
0	8	2.27E-01	-0.190816157	8
-0.288000514	5	1.10E+00	-0.154738357	5
-0.257470523	4	8.66E-01	-0.313989362	4
-0.125771627	8	5.29E-01	-0.234771537	8
-0.149190381	11	6.71E-01	-0.231600707	11
-0.037732189	1	4.04E-01	-0.007929013	1
-0.241280233	11	1.49E+00	-0.154250168	11
-0.738773302	6	1.42E+01	-0.421070806	6
-0.602844428	6	6.81E+00	-0.8347029	6
0.190265016	13	2.38E-02	-0.514218771	13
0.041434128	6	2.09E-01	0.037061915	6
0.035030599	15	9.32E-02	-0.188310877	15
-0.429783246	6	2.67E+00	-0.394966025	6
-0.660754913	10	3.97E+01	-0.343841406	10
-0.043145051	5	3.45E-01	-0.028628084	5
0.38270213	3	8.69E-02	-0.210067345	3
-0.64105274	11	4.80E+01	-0.837481144	11
-0.133192606	11	5.84E-01	-1	11
0.136841434	8	9.07E-02	-0.417822969	8
-1	5	5.10E+01	-1	5
-0.01053498	4	3.15E-01	0.006419706	4
-1	5	4.13E+01	-0.334826359	5
-0.494328274	8	6.29E+00	-0.470382084	8
-0.624784551	8	1.51E+01	0.236899935	8
-0.625785104	8	1.52E+01	-0.294852166	8
-0.190877955	13	1.07E+00	-1	13
-0.872102814	11	3.57E+02	-1	11
-0.727071619	7	2.00E+01	-0.589555501	7
0.021092993	6	2.34E-01	-0.59383398	6
-0.134720154	5	5.33E-01	-0.150677102	5
-0.013875874	5	3.00E-01	-0.008965059	5
-0.030498136	6	3.09E-01	-0.319251725	6
0.808596722	2	3.66E-02	-0.186137751	2
-0.101140006	4	4.57E-01	-0.031557909	4
-0.771958901	8	4.06E+01	-0.440224775	8

-0.817462105	3	5.38E+00	-0.304648956	3
-0.459834385	7	3.96E+00	-0.572765363	7
0.013829013	2	3.35E-01	-0.058314392	2
0.335329788	5	5.72E-02	-0.276569784	5
0	1	3.73E-01	0	1
0.102813802	7	1.31E-01	0.048294282	7
-0.492848102	10	1.03E+01	-0.618631152	10
-0.778959939	9	6.60E+01	-1	9
-0.1615004	22	1.10E+00	-0.832226074	22
-0.409618223	14	1.17E+01	-2	14
-0.971444345	9	2.73E+02	-0.621188726	9
-1	8	2.64E+02	-0.950415138	8
-0.49341114	9	8.04E+00	-0.568285626	9
0	6	2.62E-01	0	6
0	1	3.73E-01	-0.01143908	1
0.364221306	10	1.06E-02	-0.837690592	10
0.496718261	3	5.87E-02	-0.606622769	3
2	1	4.71E-03	0	1
0.188708843	4	1.39E-01	0	4
0	13	1.60E-01	-0.011149035	13
0	3	3.24E-01	-0.033111979	3
0	6	2.62E-01	-0.058698461	6
-0.022579162	3	3.50E-01	-0.227515761	3
0	5	2.81E-01	0	5
0	9	2.12E-01	0	9
0	10	1.97E-01	0	10
0	8	2.27E-01	0	8
0	22	8.44E-02	0	22
0	18	1.12E-01	0	18
0	15	1.39E-01	0	15
0	26	6.36E-02	0	26
0	8	2.27E-01	0	8
0	9	2.12E-01	0	9
0	4	3.02E-01	0	4
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0	5	2.81E-01	0	5
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0	22	8.44E-02	0	22
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0	6	2.62E-01	0	6
0	5	2.81E-01	0	5
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0	6	2.62E-01	0	6
0	4	3.02E-01	0	4
0	5	2.81E-01	0	5
0.749660571	10	4.81E-04	-0.185026119	10
0.466489671	9	6.80E-03	-0.545927236	9
-0.46701253	11	1.06E+01	-0.654096406	11
-0.447252724	9	5.72E+00	-0.355003181	9
-0.017036572	1	3.87E-01	-0.016590897	1
0	3	3.24E-01	0	3
0	2	3.48E-01	0	2
-0.068271563	7	3.69E-01	-0.076706166	7
0.433010792	8	1.24E-02	-0.302106803	8
-1	12	5.81E+03	-0.736659254	12
-0.450286745	5	2.39E+00	0.026384893	5
-0.902018947	24	4.02E+05	0.207072112	24
0.015330601	5	2.61E-01	-0.113743038	5
-0.532692268	6	4.66E+00	-0.736626875	6
-0.103694247	10	4.54E-01	-0.201950327	10
-0.590013905	17	2.05E+02	-0.58042112	17
-0.005114721	18	1.20E-01	0	18
-2	5	2.86E+04	-0.659585752	5
-0.080594817	19	3.21E-01	-0.087545142	19
0.024493111	22	5.72E-02	0.140456606	22
-0.096962403	27	3.80E-01	-0.204960763	27
0.248878709	5	8.62E-02	-0.124578847	5
-0.049964521	15	2.44E-01	-0.217253248	15
0.270653124	50	1.10E-06	0.373886585	50

0.871378254	3	1.62E-02	0.062891732	3
0.086146627	15	5.23E-02	0.27116449	15
-0.002591588	10	2.02E-01	-0.064069747	10
-0.079146381	28	2.65E-01	0.133219275	28
-0.339777253	15	6.45E+00	-0.311962351	15
0.04206792	11	1.28E-01	-0.697573809	11
-0.953467239	7	7.88E+01	-0.348509196	7
-0.510133628	6	4.13E+00	-0.607777743	6
-0.134340177	4	5.23E-01	-0.126874271	4
-0.020219568	3	3.47E-01	-0.009430086	3
-1	9	3.85E+03	-1	9
-0.047551403	4	3.67E-01	-0.320709797	4
-0.098527029	3	4.55E-01	0.091660895	3
-0.749352506	4	6.48E+00	-0.202111803	4
-0.182116045	4	6.36E-01	-0.022421501	4
0	1	3.73E-01	-0.005429819	1
-0.587939321	10	2.21E+01	-0.597941848	10
-0.606024592	5	5.00E+00	-0.246115499	5
-0.349560356	6	1.73E+00	-0.357715259	6
-0.672266985	4	4.73E+00	-0.687062037	4
-2	5	2.02E+03	-0.734811237	5
-1	10	1.16E+03	-0.549273805	10
0.008137173	9	1.99E-01	-0.511914589	9
-1	12	1.23E+05	-0.881104411	12
-0.034661298	2	3.83E-01	-0.001157172	2
-0.343347151	5	1.44E+00	-0.246028682	5
-0.000823413	2	3.48E-01	-0.005576288	2
-0.799830085	2	3.22E+00	-0.575666232	2
-2	131	3.48E+55	-2	131
-1	4	4.71E+01	-3	4
2	4	3.93E-04	-0.976788634	4
0.597831202	2	6.59E-02	-0.295958816	2
0.032377066	4	2.64E-01	-0.004608336	4
-0.129672868	4	5.13E-01	-0.108015034	4
-0.084549631	5	4.20E-01	-0.093912532	5
-0.331905926	7	1.82E+00	-0.009591258	7
-0.292996567	6	1.28E+00	-0.276140842	6
-1	8	4.30E+02	-0.4324048	8
-0.307701763	6	1.38E+00	-0.129534458	6
-0.694533792	5	7.61E+00	-0.393109887	5
-0.034428775	5	3.31E-01	-0.175213557	5
-0.058569688	12	2.96E-01	-0.499843375	12
-2	7	1.31E+05	-1	7
-2	12	4.39E+05	-1	12
-2	5	4.77E+02	-1	5
-0.540762313	6	4.87E+00	-0.91780731	6
-0.753980245	7	2.35E+01	-0.543609236	7

-0.245007166	5	9.00E-01	-0.092397373	5
-0.44775999	5	2.36E+00	-0.135947883	5
-0.035969925	2	3.84E-01	-0.015109887	2
0.934737862	10	1.09E-04	-0.361014969	10
0.251058712	11	2.08E-02	0.318686304	11
-0.111920976	4	4.77E-01	-0.085399839	4
3	15	2.74E-14	-0.848254509	15
0.074407008	4	2.23E-01	-0.02952957	4
0.002585305	4	2.99E-01	0.029614704	4
0.025971688	1	3.53E-01	-0.005429819	1
-0.317712232	7	1.67E+00	-0.379744458	7
-0.43653008	9	5.29E+00	-0.43250009	9
-0.62433686	4	3.89E+00	-0.117323111	4
0.441260551	8	1.17E-02	-0.223724101	8
-0.460705214	13	1.59E+01	-0.402074277	13
-0.342167215	6	1.66E+00	0.050666695	6
-0.305404281	3	9.26E-01	-0.145820083	3
-0.22788032	7	9.71E-01	-0.028035188	7
0.083253126	13	6.95E-02	-0.225875893	13
-0.246615578	4	8.28E-01	-0.554380285	4
-0.671126799	7	1.42E+01	-0.506833588	7
-0.17088466	3	5.83E-01	0.141143362	3
-0.004580928	5	2.87E-01	-0.189491644	5
-0.660041403	8	1.91E+01	-0.104768636	8
0.562377773	4	3.02E-02	0	4
0.047367063	2	3.05E-01	-0.011240205	2
0.007345991	4	2.93E-01	-0.248128903	4
0.138487913	2	2.37E-01	-0.059509482	2
-0.061529581	4	3.88E-01	-0.053039936	4
-0.407072265	10	5.18E+00	-0.389074922	10
-0.009712123	1	3.81E-01	-0.012109151	1
-0.005989143	2	3.54E-01	-0.00746731	2
0.115978931	4	1.88E-01	-0.131365788	4
-0.088649701	5	4.28E-01	-0.06734597	5
-0.776991091	5	1.13E+01	-0.330886313	5
0	1	3.73E-01	-0.004391647	1
-0.187552937	3	6.17E-01	-0.007773016	3
-0.362859031	7	2.20E+00	-0.888393885	7
-0.024985672	2	3.73E-01	0	2
-0.007172216	3	3.32E-01	0	3
0.451295413	3	6.86E-02	-0.133266633	3
-0.194816918	3	6.33E-01	-0.165649119	3
-0.754868932	3	4.34E+00	-0.054553064	3
-0.031201478	2	3.79E-01	-0.040951564	2
-0.052925224	5	3.62E-01	-0.205136663	5
-0.336948795	4	1.20E+00	-0.760373196	4
-0.600877192	8	1.29E+01	-0.486017659	8

-0.098913696	5	4.50E-01	-0.162435748	5
-0.20205547	8	8.83E-01	-0.455439	8
-0.256928356	4	8.64E-01	-0.20012721	4
-0.233675193	10	1.29E+00	-0.385545806	10
-0.255880015	5	9.48E-01	-0.000293166	5
-0.629412135	9	2.19E+01	-0.423112405	9
0.552352045	2	7.48E-02	-0.062096527	2
0	2	3.48E-01	-0.00337185	2
-0.122437085	4	4.98E-01	-0.137690375	4
0	6	2.62E-01	-0.030614007	6
-0.051816686	4	3.73E-01	-0.030678916	4
0.464139792	7	1.47E-02	-0.249160656	7
-0.050061207	7	3.31E-01	-0.800444857	7
-0.066877406	3	4.08E-01	-0.245226298	3
-0.293851853	7	1.45E+00	-0.318595366	7
-0.648563113	3	3.01E+00	-0.074237089	3
-0.896255347	5	1.98E+01	-0.188441951	5
-0.326084176	5	1.32E+00	-0.237279987	5
-0.202440881	8	8.85E-01	-0.185017637	8
0.065588942	6	1.84E-01	-0.172555429	6
0	3	3.24E-01	-0.091087001	3
-0.284243896	5	1.08E+00	-0.007039981	5
-0.465485369	6	3.24E+00	-0.822980625	6
-0.279284239	12	2.32E+00	-0.226496033	12
0.013864432	12	1.50E-01	-0.261097049	12
-0.058913858	5	3.72E-01	-0.034799739	5
-0.654611421	7	1.29E+01	-0.101444141	7
-0.096123298	1	4.58E-01	-0.211158726	1
-0.162299528	5	6.08E-01	-0.25409857	5
-0.093753331	18	3.89E-01	-0.290735628	18
-0.409854765	8	3.56E+00	-0.328653818	8
0.152822214	6	1.15E-01	-0.484025065	6
0.052483131	2	3.00E-01	-0.190877521	2
-1	7	1.09E+03	-0.846334302	7
-0.260478151	5	9.69E-01	-0.054262667	5
-0.010056864	5	2.95E-01	-0.077964371	5
0	5	2.81E-01	0	5
-0.021046058	2	3.69E-01	-0.016544364	2
-0.229869916	2	6.59E-01	-0.428794835	2
-0.744562967	2	2.76E+00	-1	2
0.553773285	1	1.15E-01	-0.22890664	1
-0.297074592	2	7.95E-01	-0.443930718	2
-0.427055478	1	9.26E-01	-0.676665537	1
-0.328215719	4	1.16E+00	-0.381163167	4
-0.019961807	8	2.60E-01	-0.552536252	8
-0.808728075	12	3.26E+02	-1	12
-0.014980227	4	3.21E-01	-0.006453169	4

0.060277539	3	2.63E-01	0.013882944	3
0	2	3.48E-01	0	2
0.847811839	6	2.68E-03	-0.203962563	6
-0.048445299	1	4.14E-01	-0.041741113	1
-0.793276162	8	4.68E+01	-0.29026501	8
-0.201415651	27	2.81E+00	-0.050181793	27
-0.638628744	5	5.84E+00	-0.494059384	5
-0.100623333	2	4.60E-01	-0.159950262	2
-0.706670838	9	3.87E+01	-0.555925395	9
-0.361127683	2	9.50E-01	-0.048294752	2
-0.104735379	14	4.54E-01	-0.536856389	14
-0.922898274	8	1.12E+02	-0.517972281	8
-0.11829792	4	4.90E-01	-0.193893667	4
-0.775573901	7	2.68E+01	-0.811519882	7
-0.161985129	9	6.99E-01	-1	9
-0.267194077	3	8.12E-01	-0.229064068	3
-0.973060854	6	5.04E+01	-1	6
-0.013369998	1	3.84E-01	0	1
-0.013369998	1	3.84E-01	0	1
0.328527318	4	7.86E-02	-0.285709192	4
-0.379743319	10	4.16E+00	-0.661581074	10
-0.162526382	1	5.27E-01	-0.122918487	1
-1	3	1.93E+01	-0.802642835	3
-1	11	3.52E+04	-2	11
-3	1	9.25E+01	-2	1
-3	3	9.25E+03	-2	3
-0.778436375	10	1.02E+02	-0.282885512	10
-2	3	2.87E+02	-2	3
-0.074282488	2	4.28E-01	-0.17046504	2
-1	6	7.39E+01	-0.964809383	6
-3	5	4.73E+05	-2	5
0.008852297	2	3.39E-01	-0.462284887	2
-1	6	1.05E+02	-1	6
0.316949057	4	8.25E-02	-0.452772709	4
0.250210027	9	3.35E-02	-0.496166525	9
-0.57339859	4	3.16E+00	0.564555986	4
-0.239745077	12	1.61E+00	0.588427734	12
-1	8	1.41E+03	-0.05885435	8
-0.449993122	5	2.38E+00	-0.576185469	5
-1	4	7.11E+01	-0.646210054	4
-0.062486144	2	4.14E-01	-0.381780708	2
-1	2	1.94E+01	-2	2
-0.303631956	11	2.57E+00	-0.520280076	11
-0.054190416	1	4.19E-01	-0.022788173	1
-1	16	6.35E+04	-0.908779965	16
-0.202725054	2	6.11E-01	-1	2
-1	13	5.23E+04	-2	13

-2	4	5.43E+02	-2	4
1	7	5.26E-04	-0.363271253	7
-0.953340459	3	8.59E+00	-0.560229618	3
-0.398564313	5	1.87E+00	-0.661109446	5
-2	5	3.25E+04	0.652726669	5
0.254271613	4	1.07E-01	1	4
-1	12	8.11E+03	-0.360343751	12
-0.190176263	15	1.19E+00	-0.201816711	15
-0.051388471	1	4.16E-01	-0.249187745	1
-0.346124448	5	1.45E+00	-0.251751132	5
-0.298218951	4	1.02E+00	-0.254079724	4
-0.365963675	4	1.35E+00	0.282062693	4
0.129316188	3	2.08E-01	-1	3
-2	3	1.47E+03	-2	3
-2	3	1.04E+02	-2	3
-1	3	2.12E+01	0.883949673	3
-0.963706657	13	2.43E+03	1	13
-0.354753987	12	4.70E+00	-0.31378123	12
-0.651561671	18	6.37E+02	-0.587651907	18
-1	8	1.98E+02	-0.274514981	8
1	7	5.27E-04	-0.925754494	7
-0.253808201	6	1.03E+00	-0.07838976	6
-0.542852245	2	1.57E+00	-0.146695553	2
-0.543517901	6	4.94E+00	-0.768226535	6
-0.927216473	19	4.23E+04	-0.628168303	19
-0.590593218	7	8.75E+00	-0.255266859	7
0.010441752	7	2.29E-01	-0.329184993	7
0.06930708	7	1.60E-01	-1	7
0.121679459	2	2.48E-01	-0.039727824	2
-0.171681117	9	7.51E-01	-0.034312006	9
-0.009970998	2	3.57E-01	-0.012913528	2
-0.139945671	5	5.47E-01	-0.072143351	5
0.396607181	6	3.07E-02	-0.001786683	6
-0.008134468	4	3.12E-01	-0.138459045	4
-0.080453866	3	4.27E-01	-0.014857852	3
0.033254882	5	2.40E-01	-0.24027279	5
-0.43478842	7	3.40E+00	-0.052689971	7
-0.256053546	10	1.54E+00	-0.294847084	10
0.440739612	5	3.47E-02	-1	5
-0.098369054	11	4.32E-01	-0.325247507	11
-0.472473452	3	1.64E+00	-0.548530665	3
-0.634910257	7	1.14E+01	-1	7
-0.933435538	7	6.98E+01	-0.845271873	7
-0.584202892	10	2.15E+01	-0.446094808	10
-0.32254951	4	1.13E+00	-0.390259959	4
0	2	3.48E-01	-0.011975707	2
-0.031636174	8	2.81E-01	-0.27806759	8

-0.525027603	4	2.59E+00	-0.25866432	4
-0.375372075	8	2.83E+00	-0.107715292	8
-0.408398676	7	2.90E+00	-0.09467769	7
-0.104587134	4	4.63E-01	0.105559878	4
-0.324650693	6	1.51E+00	-0.269304024	6
-0.220236011	6	8.61E-01	-0.693526264	6
-0.807756595	7	3.26E+01	-0.465688439	7
-0.040270015	3	3.72E-01	-0.062893179	3
-0.402018353	3	1.29E+00	-0.101428294	3
0.172744901	5	1.24E-01	-0.088808231	5
-0.046911504	2	3.96E-01	-0.146870893	2
-0.30689378	3	9.30E-01	-0.068879027	3
-0.517314924	3	1.92E+00	-0.32236241	3
-1	4	7.09E+01	-0.934901664	4
-0.005991807	4	3.09E-01	-0.732522255	4
0	1	3.73E-01	-0.008245269	1
0	1	3.73E-01	0	1
-0.803970675	4	8.11E+00	-0.7342929	4
-0.164359537	4	5.91E-01	-0.032150598	4
0.616175028	44	1.38E-10	0.799185119	44
-2	4	1.03E+03	1	4
0.323645376	9	1.95E-02	0.067829377	9
-0.513952241	9	9.36E+00	-0.482233789	9
-0.808558895	10	1.30E+02	-0.179239824	10
0.187340234	8	6.46E-02	-0.416219718	8
-0.003336437	5	2.86E-01	-0.007050483	5
0.060154434	5	2.11E-01	-0.233732802	5
0.000886058	9	2.10E-01	-0.23250103	9
-0.461282876	15	2.55E+01	-0.821073282	15
-0.270477677	4	9.13E-01	0.123919285	4
-0.62623168	9	2.14E+01	-0.359890926	9
0.026993833	3	2.95E-01	0	3
-0.149439471	2	5.27E-01	-0.09265769	2
-0.236077157	10	1.31E+00	-0.37518618	10
-0.645887536	7	1.22E+01	-0.863146292	7
-0.120178515	10	5.18E-01	-0.380852821	10
-0.097596245	4	4.50E-01	-0.248315108	4
-0.526034435	14	4.03E+01	-0.310311718	14
-0.507207886	13	2.54E+01	-0.728907949	13
0.522507511	7	1.03E-02	-0.181514819	7
-0.93462899	5	2.38E+01	-0.344929629	5
-0.688064101	11	7.22E+01	-0.686630328	11
0.179084694	18	1.04E-02	-0.220671533	18
0.296844588	5	6.87E-02	0.317005705	5
-0.549146183	52	3.04E+06	-0.128498601	52
0.038575109	31	1.93E-02	0.702717428	31
-0.282861281	9	1.70E+00	1	9

0	4	3.02E-01	-0.046797353	4
-0.136097443	31	8.66E-01	-0.038402268	31
-0.182828757	17	1.21E+00	0.128392248	17
-0.122577223	31	6.45E-01	0.30281045	31
-1	10	1.07E+03	-0.99172414	10
-0.816329893	32	3.77E+06	-0.642413234	32
-0.170872744	3	5.83E-01	-0.034236891	3
-0.463533516	8	5.11E+00	-0.626106617	8
-1	8	4.20E+02	-0.91782384	8
0.341628733	15	2.91E-03	-0.640047818	15
0.312515343	11	1.22E-02	-1	11
-0.345628473	23	2.40E+01	-0.484433633	23
-1	20	4.21E+07	-0.935675213	20
-0.43371152	10	6.41E+00	-1	10
-0.32888187	11	3.20E+00	-0.438230837	11
-1	9	9.24E+02	-1	9
-0.188439955	3	6.19E-01	-0.233807368	3
-0.353763253	7	2.08E+00	-0.251511963	7
-1	4	2.13E+01	-0.465949347	4
-2	6	5.84E+03	-1	6
-0.200462727	30	3.31E+00	0.621940977	30
-0.17563157	6	6.77E-01	2	6
-0.496040977	10	1.06E+01	-0.672915349	10
-0.574347956	10	1.98E+01	-0.448250446	10
-0.818331888	5	1.37E+01	-0.592216035	5
-0.005572676	3	3.30E-01	-0.054157424	3
-0.399586155	4	1.55E+00	-0.485068962	4
-0.267492673	3	8.13E-01	-0.107328228	3
-0.393449202	5	1.82E+00	-0.723824856	5
0.813414583	8	9.65E-04	-0.122337559	8
-0.361307542	8	2.57E+00	-0.354476945	8
-0.434826266	12	9.93E+00	-0.064999823	12
-0.609677455	5	5.09E+00	-0.271436787	5
-1	6	2.29E+02	-0.743705699	6
-0.853374403	8	7.01E+01	-0.676501952	8
0.139453995	5	1.45E-01	0.105891631	5
-0.540105024	8	8.55E+00	-0.382260273	8
-0.179897131	5	6.61E-01	-0.31728926	5
-0.251510719	4	8.45E-01	-0.063481294	4
-0.290190425	7	1.42E+00	-0.510011515	7
-0.164213303	7	6.60E-01	-0.517682415	7
-1	7	3.03E+02	-0.241439254	7
0	4	3.02E-01	-0.04245707	4
-0.355110976	7	2.10E+00	-0.365409981	7
0.377701031	6	3.40E-02	-0.357177655	6
-0.24465768	3	7.51E-01	0	3
-0.681151538	5	7.14E+00	-0.623370315	5

-0.09559736	10	4.25E-01	-0.342103597	10
-0.21637448	7	9.06E-01	-0.307384584	7
-0.833403932	9	9.86E+01	-0.394376239	9
-0.106517061	8	4.65E-01	-0.739695536	8
-0.260466403	9	1.44E+00	-0.211032509	9
-0.985759339	7	9.59E+01	-1	7
-0.712858441	11	8.96E+01	-0.869636091	11
-0.310681746	10	2.39E+00	-0.937956522	10
-0.284733564	7	1.37E+00	-0.270876707	7
-0.161435581	9	6.96E-01	-0.069735278	9
-0.113304003	8	4.87E-01	-0.220993307	8
-0.662303792	13	1.19E+02	-0.63701938	13
0	2	3.48E-01	0	2
-0.04322248	2	3.92E-01	-0.009099593	2
-0.801923843	2	3.24E+00	-0.309723009	2
-2	2	5.67E+01	-0.315311288	2
0.162221102	6	1.09E-01	-0.693893279	6
1	2	1.50E-02	-1	2
-1	1	5.59E+00	-0.653660647	1
-0.907793983	3	7.34E+00	-0.43368602	3
-0.887403207	10	2.45E+02	-0.521615704	10
-0.984779848	5	3.02E+01	-0.345440831	5
-0.005851409	3	3.31E-01	-0.003672928	3
0	3	3.24E-01	0.212475547	3
-0.034018922	3	3.64E-01	-0.28443755	3
-0.200259251	6	7.73E-01	-0.335960438	6
-0.242956922	3	7.47E-01	-0.415868656	3
-0.216959584	4	7.34E-01	-0.28146618	4
-0.26511123	4	8.93E-01	0.023535092	4
-0.088754052	7	4.18E-01	-0.390925655	7
0	5	2.81E-01	-0.114528275	5
-0.315288524	8	1.89E+00	-0.487085782	8
-0.925783926	6	3.90E+01	-0.801325385	6
-0.920936129	8	1.10E+02	-0.510639214	8
-0.051158291	7	3.33E-01	-0.257708625	7
0.083312605	8	1.30E-01	-0.80859	8
-1	7	3.43E+02	-1	7
-0.898485504	7	5.65E+01	-1	7
-0.248401121	3	7.61E-01	-0.185461378	3
-0.037841106	2	3.86E-01	0.00711233	2
0.011908722	12	1.53E-01	-0.764974217	12
0	3	3.24E-01	-0.241265475	3
0.263076081	4	1.03E-01	-0.127355105	4
0.027131861	18	7.82E-02	-0.277889742	18
-0.811845327	8	5.30E+01	-0.551393125	8
-2	9	7.52E+04	-1	9
0.353847821	3	9.60E-02	-0.230986735	3

-0.207791089	3	6.62E-01	-0.013568178	3
0.157122884	4	1.59E-01	0.146496053	4
0.131956907	6	1.28E-01	-0.60408148	6
-0.217667244	7	9.13E-01	-0.275960172	7
-0.378169744	6	2.02E+00	-0.750265064	6
-0.301622672	4	1.04E+00	-0.086141112	4
-0.33079548	3	1.01E+00	0	3
0.021390928	3	3.01E-01	-0.059941343	3
-0.140855767	3	5.26E-01	-1	3
-0.252340195	5	9.32E-01	-0.646492779	5
-0.478182523	10	9.16E+00	-0.292782413	10
-0.260161783	22	5.27E+00	-0.282280533	22
-0.31512161	10	2.48E+00	-0.08235096	10
-0.775913559	20	7.96E+03	-0.017933892	20
-0.466335884	3	1.61E+00	-0.238064149	3
-0.24435999	4	8.21E-01	-0.137172807	4
-0.53866783	8	8.47E+00	-0.030265568	8
0.018991662	12	1.43E-01	-0.178720558	12
-0.040378553	13	2.39E-01	-0.074624674	13
-0.110846576	23	4.92E-01	-0.311348146	23
0.270182784	40	1.33E-05	0.18268109	40
0.700008763	19	6.10E-06	0.121336064	19
0.148650634	8	8.38E-02	0.012223633	8
-0.207026214	12	1.18E+00	-0.133689378	12
-0.246908138	13	1.88E+00	0.06277945	13
0.025568241	1	3.53E-01	0.273756049	1
-0.161847392	6	6.28E-01	2	6
0.560489265	13	5.90E-04	3	13
-0.042282138	2	3.91E-01	0.368080068	2
-0.175203239	9	7.71E-01	0.233356205	9
-0.089568156	6	4.25E-01	-0.25771635	6
-0.047320463	5	3.52E-01	-0.009409107	5
-0.377084358	4	1.41E+00	-0.178534759	4
-0.424997248	9	4.86E+00	-0.435071657	9
-0.002839283	3	3.27E-01	-0.148617641	3
-0.18935279	4	6.55E-01	-0.054179723	4
-0.724018833	10	6.59E+01	-0.313409187	10
-0.34693205	4	1.25E+00	-0.163744839	4
-0.561853391	7	7.35E+00	-0.054601333	7
-1	6	1.64E+02	-1	6
-0.244558357	3	7.51E-01	-0.317928176	3
-0.457022013	8	4.89E+00	-0.00748583	8
-2	9	2.40E+04	-1	9
-1	6	1.91E+02	-0.575170552	6
0.177255881	9	5.74E-02	-0.095209839	9
0.388493358	8	1.67E-02	-0.431729762	8
0.376414162	3	8.88E-02	-0.245555055	3

0.630104509	8	3.30E-03	-0.309679474	8
-0.772643219	8	4.07E+01	-2	8
-0.343180955	12	4.22E+00	-0.305230526	12
-0.421496266	8	3.85E+00	0.082855083	8
0.300501679	10	1.77E-02	0.067086541	10
0.15032892	13	3.55E-02	-0.051927434	13
0.394549597	4	6.00E-02	-0.169055327	4
-0.13469307	21	7.05E-01	-1	21
-0.288484222	36	4.33E+01	-0.254252657	36
-0.455196735	3	1.55E+00	-0.288172369	3
-1	4	7.03E+01	-0.823425236	4
0.366443891	7	2.65E-02	-0.190016571	7
0.279940809	20	1.64E-03	0.151362424	20
-0.132704547	3	5.11E-01	-0.225999457	3
-1	5	1.12E+02	-0.399739743	5
-0.279341173	3	8.46E-01	-0.0283409	3
-0.522425791	2	1.49E+00	-0.475015046	2
-0.21652441	12	1.29E+00	-0.788862464	12
0	3	3.24E-01	0	3
-0.211111708	4	7.16E-01	-0.535745505	4
-0.250249824	5	9.23E-01	0	5
-0.116629286	8	4.98E-01	-0.315935568	8
-0.012777945	3	3.38E-01	-0.005335411	3
-0.51381887	8	7.17E+00	-0.524350289	8
-0.292525639	3	8.86E-01	-0.157590807	3
-0.085141487	1	4.47E-01	-0.071175702	1
-0.061640817	8	3.44E-01	-0.080796069	8
-0.069014123	3	4.11E-01	-0.058614311	3
0	1	3.73E-01	0	1
-0.062404607	2	4.14E-01	-0.32722508	2
-0.609740532	2	1.90E+00	-0.583516781	2
-1	4	2.51E+01	-1	4
-0.215805924	3	6.80E-01	-0.385835018	3
-0.427055478	1	9.26E-01	-0.206047532	1
-0.427055478	3	1.41E+00	-0.37805061	3
0	2	3.48E-01	-0.000128668	2
-0.051061164	3	3.86E-01	-0.133298377	3
-0.437380341	15	1.94E+01	-0.509826804	15
0	1	3.73E-01	0	1
0.167091549	12	3.60E-02	0.022991613	12
0.105393045	17	3.18E-02	-0.217161851	17
-1	28	9.65E+10	-0.696764175	28
-0.130726628	5	5.23E-01	0	5
-0.229420348	7	9.80E-01	-0.154934483	7
-0.084278679	4	4.26E-01	0.000264424	4
0.057177791	43	3.50E-03	2	43
-0.658579418	13	1.15E+02	0.033516379	13

-0.466758132	104	3.32E+10	0.47489542	104
-0.501826947	2	1.40E+00	-0.720324084	2
-0.020994969	1	3.90E-01	-0.004391647	1
-0.016900825	2	3.64E-01	-0.00353525	2
-0.19674472	24	2.16E+00	-0.087411355	24
-0.236303631	35	1.08E+01	0.231402113	35
-0.014712056	3	3.41E-01	0.006155058	3
-0.465812225	53	1.99E+05	-0.210311613	53
0	4	3.02E-01	-0.040947549	4
-0.041900977	29	1.21E-01	0.004158839	29
0.300715315	9	2.31E-02	-0.149246979	9
-0.164814693	24	1.25E+00	0.034673331	24
2	21	2.54E-12	-0.37019064	21
0.243295273	12	1.77E-02	0.522073574	12
-0.303034641	2	8.08E-01	0.349100333	2
-0.029680277	2	3.78E-01	0.002172906	2
-0.107435228	9	4.68E-01	-0.554297087	9
-0.636516147	3	2.89E+00	-0.72240592	3
-0.732264731	2	2.67E+00	-0.871226062	2
-0.513610064	7	5.49E+00	-0.030247306	7
-0.558713524	9	1.30E+01	0.181721074	9
0.323027484	5	6.06E-02	-0.632446458	5
-0.679641248	7	1.50E+01	-0.708887462	7
-0.570227911	3	2.30E+00	-0.305979065	3
-0.114192018	2	4.78E-01	-0.461809377	2
-0.760569704	14	4.89E+02	-0.862803763	14
-0.792093213	6	1.89E+01	0.034752013	6
-0.863240469	7	4.56E+01	-0.402090464	7
-0.879137657	13	1.04E+03	-0.183303577	13
-2	8	2.22E+04	0.270407639	8
-0.598992218	17	2.30E+02	-0.487921417	17
0.125609671	11	6.18E-02	-0.27137029	11
-0.063230391	11	3.18E-01	-0.010323193	11
0.435936413	10	5.97E-03	0.018760798	10
0.514792279	6	1.62E-02	0.266045834	6
-0.137222584	12	6.17E-01	0.843117196	12
0.554975767	21	1.93E-05	1	21
-0.737846778	11	1.11E+02	-0.065466823	11
-0.822646977	8	5.70E+01	-0.612677806	8
-1	11	1.71E+04	-1	11
-0.164401267	16	9.22E-01	-0.10306555	16
-1	6	9.63E+01	-0.650675809	6
-2	18	8.34E+08	-0.947131587	18
-0.09178515	7	4.26E-01	-0.429940213	7
-0.003426262	5	2.86E-01	-0.001440263	5
-0.206596953	5	7.50E-01	-0.061591035	5
0	2	3.48E-01	0	2

-0.442577134	9	5.53E+00	-0.129646414	9
1	3	2.40E-03	0.203138397	3
-0.461533339	2	1.26E+00	-0.273733681	2
-0.628314632	3	2.81E+00	-0.065567812	3
0.026194489	5	2.48E-01	-0.007071454	5
-0.075860868	2	4.29E-01	-0.011159803	2
-0.648168972	6	8.70E+00	-0.361635816	6
-0.49155843	4	2.26E+00	-0.338585058	4
-1	11	4.55E+04	-1	11
-0.798772829	5	1.25E+01	-1	5
-0.576579005	17	1.73E+02	-0.188893877	17
-0.297739876	17	5.14E+00	-0.124969241	17
-0.016801335	21	1.17E-01	-0.335247612	21
0.957622462	16	1.37E-06	-0.093821561	16
-0.48434779	27	6.38E+02	-0.055111233	27
-0.274137124	10	1.78E+00	-0.156488988	10
-0.772243358	18	3.16E+03	-0.333189783	18
0.140567819	2	2.35E-01	-0.390759325	2
-0.345013862	3	1.06E+00	0.071609473	3
-0.035251044	2	3.84E-01	-0.009853269	2
-0.280193053	15	3.29E+00	-0.033500129	15
-0.282957328	13	2.70E+00	-0.838635404	13
-0.383185851	20	2.60E+01	-0.746727505	20
-0.380821403	19	2.10E+01	0.017587722	19
-0.333930572	10	2.88E+00	0.090047943	10
0.292111286	6	5.40E-02	-0.741713884	6
-1	12	1.47E+04	-0.737490183	12
-0.589020849	3	2.45E+00	-0.253030819	3
-0.658828506	7	1.32E+01	-0.221841386	7
0.129428018	5	1.52E-01	-1	5
-0.500949921	2	1.40E+00	-0.179454761	2
-0.530421153	14	4.22E+01	-1	14
-0.302590522	6	1.34E+00	-0.76369651	6
-0.427474483	13	1.14E+01	-0.704602575	13
-0.206580896	14	1.34E+00	-0.822893249	14
-1	12	1.11E+04	-0.994792696	12
-2	12	4.59E+05	-1	12
0.0598622	10	1.22E-01	-0.521250728	10
-0.514435454	11	1.60E+01	-0.818690641	11
-0.76618514	17	1.89E+03	0.324446944	17
-1	3	3.11E+01	0.771199161	3
0.322526754	7	3.46E-02	-0.126765333	7
0	1	3.73E-01	-0.363538256	1
-0.427055478	1	9.26E-01	-0.020525485	1
-0.824774809	5	1.41E+01	-0.879346401	5
-0.494691819	3	1.77E+00	-0.640459865	3
-0.010334498	5	2.95E-01	-0.112150299	5

0.009733473	2	3.38E-01	-0.009609393	2
-0.026509172	3	3.55E-01	-0.066219491	3
-0.716436434	5	8.44E+00	-0.250742733	5
-1	5	9.55E+01	-1	5
-0.546073773	18	1.57E+02	-0.612740776	18
-0.173684391	3	5.89E-01	-0.414660885	3
-0.029029142	3	3.58E-01	-0.285997922	3
-0.599754594	7	9.24E+00	-0.695488102	7
-1	5	1.01E+02	0.020955901	5
0.055913073	27	2.03E-02	0.725563276	27
-0.059017358	1	4.23E-01	-0.067312285	1
-0.632059471	4	4.01E+00	-0.766531167	4
-1	13	6.10E+04	-1	13
-0.632992856	2	2.02E+00	-0.020135995	2
-2	4	1.96E+03	-2	4
-0.450157177	3	1.52E+00	-0.088091208	3
-1	15	2.34E+06	-1	15
-0.236501047	8	1.11E+00	-0.21266314	8
0.086693094	14	5.91E-02	-0.714273219	14
-1	7	1.37E+02	-1	7
-0.974733584	7	8.97E+01	-0.966607491	7
-0.727033078	12	1.52E+02	-0.158609878	12
0.599867378	17	6.22E-05	-1	17
0.764430759	6	4.21E-03	0.546231049	6
-0.747719025	2	2.78E+00	-0.295715489	2
-2	5	5.21E+03	-2	5
-0.388492465	2	1.02E+00	-0.576372302	2
-0.026497104	3	3.55E-01	-0.05270261	3
-2	9	1.43E+04	-1	9
-1	12	2.81E+03	-0.53675375	12
-0.72865196	12	1.54E+02	0.568864119	12
-0.889794735	1	2.48E+00	1	1
-0.640634671	2	2.07E+00	0.336924493	2
-1	9	2.53E+03	-0.809068969	9
-0.186278408	24	1.81E+00	0.15933506	24
-0.623725629	8	1.50E+01	-0.39568249	8
-0.1193614	4	4.92E-01	-0.26175563	4
0.149255624	13	3.59E-02	-0.776402649	13
0.086931326	12	7.61E-02	-0.253217449	12
-0.735872783	3	4.07E+00	-0.006629763	3
-2	10	1.79E+05	-0.534080077	10
-0.566699644	9	1.38E+01	-0.472766144	9
-1	5	4.87E+01	-0.724656238	5
-0.003887413	5	2.86E-01	-0.006587503	5
0.107927174	4	1.94E-01	-0.607640571	4
0	3	3.24E-01	0	3
0.000545202	8	2.27E-01	-0.105884268	8

-0.394510161	8	3.22E+00	-0.450343209	8
0.212043514	14	1.55E-02	-0.042524368	14
0.029709982	22	5.26E-02	-0.127332547	22
-0.403538368	11	6.11E+00	-0.236635107	11
-0.622289724	5	5.40E+00	-0.035093368	5
-0.043972579	8	3.05E-01	-0.047379502	8
-0.419428971	9	4.66E+00	-0.030200905	9
-0.754192481	6	1.54E+01	-0.228504198	6
-0.198996642	9	9.18E-01	-0.188107006	9
-0.030732164	1	3.98E-01	-0.226700054	1
0.46692578	6	2.10E-02	-0.984244088	6
-0.003459835	4	3.06E-01	-0.083868377	4
-0.003258277	3	3.28E-01	-0.013888941	3
-1	3	1.40E+01	-1	3
-2	4	1.57E+02	-1	4
-0.186934727	108	1.41E+02	-0.567481925	108
-1	4	2.80E+01	-1	4
-0.049222252	2	3.99E-01	-0.033597668	2
-1	8	1.10E+03	-0.963412274	8
-0.388191262	6	2.13E+00	-0.40625572	6
0.268056422	9	2.94E-02	-0.273333192	9
-0.096961416	65	2.89E-01	-0.726754997	65
-0.140718229	10	6.11E-01	-0.398073485	10
-0.8585043	8	7.25E+01	0.803732952	8
-0.035176132	24	1.34E-01	0.009231771	24
-0.906841072	27	2.10E+06	0.167681812	27
-1	9	1.04E+03	-0.797393681	9
-0.509084577	5	3.15E+00	-0.384843279	5
-0.732810228	6	1.37E+01	-0.728165403	6
0	1	3.73E-01	-0.038248818	1
0.10455113	7	1.30E-01	-0.845791474	7
-0.00176999	3	3.26E-01	0	3
-0.198201928	4	6.79E-01	-0.38994199	4
-0.1555218	6	6.07E-01	-0.217249429	6
0.175019192	5	1.22E-01	-0.0300376	5
-0.220776488	7	9.30E-01	-0.421560302	7
-2	5	5.22E+03	-2	5
-1	8	4.10E+03	-0.317249959	8
0.584778939	8	4.48E-03	-0.813708026	8
-0.428513322	11	7.59E+00	-0.488938015	11
0	2	3.48E-01	-0.014936514	2
-2	42	2.83E+19	-0.540884414	42
-0.236558984	3	7.31E-01	-0.77267232	3
-1	3	1.40E+01	-0.628849114	3
-0.149259203	4	5.56E-01	-0.518926825	4
-0.842750067	21	3.42E+04	-0.954920597	21
0.054863687	2	2.98E-01	-0.015346985	2

0.589417099	16	1.12E-04	-0.628930086	16
1	3	8.31E-03	-0.080012077	3
-0.277509198	5	1.05E+00	-0.482101591	5
-0.185176299	5	6.77E-01	-0.154783845	5
0.061948587	2	2.93E-01	-0.121968035	2
-0.211708241	7	8.80E-01	-0.00304269	7
-0.008367792	6	2.74E-01	-0.180859474	6
-0.293393943	3	8.88E-01	-0.449443681	3
-0.545932556	11	2.10E+01	-0.338458961	11
-0.059738019	4	3.85E-01	-0.01124565	4
-0.126347621	6	5.19E-01	-0.094536522	6
-0.458678085	12	1.24E+01	-0.240974858	12
-0.608777273	13	7.00E+01	-1	13
0.617079606	11	8.67E-04	-0.593217735	11
0.134300445	6	1.27E-01	2	6
-1	11	4.02E+04	2	11
-0.626238235	10	3.01E+01	-0.250151133	10
-0.231087347	4	7.77E-01	-0.555066742	4
-0.264154642	8	1.34E+00	0.301581049	8
-0.213060555	5	7.73E-01	-0.393621415	5
0.786374438	13	6.17E-05	-0.723415134	13
-0.10311368	7	4.56E-01	-0.570476492	7
0.55139895	11	1.53E-03	-0.093667646	11
-1	18	6.68E+06	-0.776512098	18
-0.8765264	10	2.24E+02	2	10
-1	12	4.15E+03	-0.04384835	12
-0.617522617	6	7.37E+00	-0.649691875	6
-0.657593011	4	4.45E+00	-0.367986652	4
-0.206774933	3	6.59E-01	-0.004003501	3
-0.261865582	8	1.32E+00	-0.157625746	8
-1	10	1.34E+03	-0.526509912	10
-0.428613516	4	1.74E+00	-0.282966269	4
-0.107327444	3	4.69E-01	-0.012448594	3
-0.248933333	8	1.21E+00	-0.108602535	8
-0.081895873	7	4.01E-01	-0.329368035	7
-0.212401897	40	8.46E+00	-0.646340962	40
0.892442475	5	4.06E-03	0.303848388	5
-0.043215277	21	1.75E-01	0.838355636	21
0.9258131	16	2.01E-06	0.220027465	16
-0.655539563	13	1.12E+02	-0.088304134	13
-0.807674671	19	8.00E+03	-0.732006284	19
0.195013292	9	5.03E-02	-0.340358322	9
-0.428917344	10	6.17E+00	0.103804085	10
-0.163163041	7	6.56E-01	-0.107153734	7
-0.698969665	6	1.14E+01	-0.3737984	6
-0.624330445	21	1.23E+03	-0.833517754	21
0.794980872	10	3.34E-04	-2	10

0.098632927	46	6.82E-04	-0.450813979	46
-0.180628002	8	7.65E-01	-0.508697501	8
-1	12	1.83E+04	-0.464018716	12
0.397116204	14	2.17E-03	1	14
0.179357823	2	2.11E-01	0.493690561	2
-0.11735751	20	5.38E-01	-0.387475404	20
-0.287296446	3	8.70E-01	-0.783594205	3
0.177990352	5	1.21E-01	0.145202985	5
0.506134508	6	1.70E-02	0.506649002	6
0.39825485	4	5.91E-02	-0.147294445	4
0.831844399	13	3.92E-05	-0.838622365	13
-0.276231671	13	2.52E+00	-0.793966716	13
-1	13	9.02E+03	-0.871593338	13
-0.337157607	3	1.03E+00	-0.287300523	3
-2	5	1.33E+04	1	5
-0.588602917	8	1.18E+01	1	8
-0.052860576	5	3.61E-01	2	5
-0.263298537	18	3.69E+00	0.378944339	18
0	2	3.48E-01	0	2
-0.078489198	6	4.00E-01	-0.003301037	6
0.697713575	15	5.21E-05	-0.51967943	15
0.312911901	16	3.06E-03	-1	16
-0.070130532	9	3.55E-01	-0.484397119	9
-1	6	2.01E+02	-0.48140225	6
0.558363591	5	1.98E-02	-0.427550875	5
-0.846658033	21	3.63E+04	-0.793136586	21
-0.421633042	20	4.55E+01	-0.817789426	20
0.142737771	12	4.52E-02	-0.094518034	12
-0.283342028	5	1.08E+00	0.126306914	5
0.364162384	7	2.69E-02	-0.02268314	7
0	3	3.24E-01	-0.001722309	3
-1	5	2.01E+02	0.218562018	5
0.688946041	12	2.75E-04	2	12
1	12	5.45E-07	0.282806512	12
-0.270629172	10	1.73E+00	-0.146305502	10
-2	30	8.41E+13	-1	30
-0.633441838	23	2.80E+03	-0.698615051	23
0	2	3.48E-01	-0.048931102	2
-2	6	3.84E+03	-0.222335396	6
0.789914264	21	5.37E-07	-0.842215789	21
0.062152385	7	1.67E-01	-0.372404209	7
-0.48738462	1	1.05E+00	-0.067312285	1
-0.545291916	1	1.19E+00	-0.280876818	1
-3	3	2.17E+03	-1	3
-2	5	5.98E+02	-1	5
0.389654274	9	1.20E-02	-2	9
0.232148975	9	3.83E-02	-1	9

0.486684719	4	4.12E-02	-0.375648779	4
0.095219534	23	1.63E-02	0.214884258	23
-1	11	4.22E+04	-2	11
-1	8	2.43E+02	-1	8
-1	6	7.64E+02	-1	6
-1	20	2.40E+05	-1	20
-0.070827544	2	4.23E-01	-0.217737316	2
-0.441495726	10	6.83E+00	-0.275569518	10
-0.812660759	6	2.12E+01	-0.28886902	6
-0.915804087	13	1.50E+03	-0.962393168	13
-0.449068041	4	1.90E+00	-0.341035687	4
2	6	3.45E-06	-0.546747107	6
-0.242809295	24	4.77E+00	0.499492901	24
-0.56804848	2	1.69E+00	-0.413865667	2
-0.3468979	8	2.34E+00	1	8
-0.158822339	4	5.78E-01	0.533173122	4
-0.021906412	29	8.05E-02	2	29
-0.29562419	5	1.14E+00	0.194282939	5
-1	4	2.36E+01	-0.388357419	4
-2	8	2.52E+05	-1	8
-2	15	1.27E+09	-2	15
-0.511631419	4	2.45E+00	-0.794290189	4
-0.004311422	8	2.34E-01	-1	8
-0.642382201	6	8.43E+00	2	6
-0.897726454	11	4.46E+02	0.41642934	11
-0.042680499	4	3.59E-01	-0.016816922	4
-0.277098861	9	1.63E+00	-0.593878336	9
-1	7	2.89E+02	-0.384215905	7
-1	11	6.08E+04	-1	11
-1	5	1.01E+02	0.901332189	5
-0.677609704	23	5.82E+03	-0.227754504	23
-0.856564725	6	2.68E+01	-0.599838979	6
-0.387282306	5	1.77E+00	-0.991521051	5
0.419207665	8	1.36E-02	-0.285562089	8
0.133664804	10	6.75E-02	-1	10
-0.314655339	10	2.47E+00	-0.437951712	10
-1	6	1.01E+02	-0.634938197	6
-0.675348296	16	4.15E+02	0.006676309	16
-0.486390758	19	9.12E+01	0.002229804	19
-1	11	6.65E+03	1	11
-1	9	3.30E+03	0.722734443	9
-1	10	1.98E+03	-0.098469006	10
-0.495589191	13	2.26E+01	0.157085765	13
-0.617097053	18	4.03E+02	0.860258595	18
-0.368519971	4	1.36E+00	-0.473664123	4
0.060363331	5	2.11E-01	0.019897287	5
0.441905187	11	3.97E-03	0.73194436	11

-2	24	9.41E+11	-2	24
0.206036341	26	1.40E-03	0.217541401	26
0.075103393	7	1.55E-01	0.731924787	7
-0.646398877	3	2.99E+00	0.084007359	3
-0.621977839	19	6.03E+02	0.101044518	19
-2	32	9.33E+15	1	32
-1	17	1.78E+05	-1	17
-1	8	3.01E+02	-0.977484107	8
1	10	1.56E-05	0.692082319	10
1	3	3.37E-03	0.624663135	3
0.461294368	8	1.03E-02	0.421176555	8
0.08007193	5	1.92E-01	0.111737661	5
-0.513183541	5	3.22E+00	0.674716032	5
-0.277571745	4	9.40E-01	-0.153373187	4
-1	18	1.82E+05	-0.754979946	18
-0.736135551	5	9.27E+00	-0.877430498	5
-0.280741559	9	1.68E+00	-0.197141738	9
-1	4	3.79E+01	0.09699684	4
0.463029202	11	3.30E-03	-0.537112596	11
2	11	8.49E-09	0.35850842	11
-0.354492899	4	1.29E+00	-0.819952727	4
0	5	2.81E-01	0.004213084	5
0.066240137	27	1.66E-02	-0.200322106	27
0.965157429	6	1.42E-03	-0.345902356	6
0.000677702	9	2.11E-01	-0.471617803	9
-1	9	2.67E+03	-0.91528157	9
-0.750988478	237	2.89E+43	-0.872910827	237
-1	12	1.54E+05	-1	12
-1	7	2.67E+02	-0.728228247	7
1	41	9.41E-16	-0.118851627	41
-1	7	1.08E+02	-1	7
0.050969391	18	5.70E-02	1	18
-2	11	1.85E+07	-0.812088519	11
0.189572588	15	1.63E-02	-0.034241185	15
-0.177199345	52	5.50E+00	0.294080799	52
0.197595485	11	3.31E-02	0.939121771	11
-1	17	2.05E+05	-0.663734257	17
2	12	8.10E-08	-1	12
-0.010587497	6	2.77E-01	-0.804273696	6
0.67709338	3	3.16E-02	-0.771072929	3
-0.284679093	18	4.90E+00	-1	18
-2	4	1.41E+03	-1	4
0	1	3.73E-01	0.003390604	1
2	5	2.07E-04	-2	5
0.058721565	14	7.96E-02	-0.223043764	14
-0.533092799	31	4.95E+03	0.038448916	31
0.355462062	5	5.20E-02	0.045537054	5

-0.178324256	4	6.26E-01	-0.371011514	4
-0.266494053	5	9.97E-01	-0.223751037	5
-0.044357033	4	3.62E-01	-0.292835163	4
0.795381566	10	3.33E-04	-1	10
-0.327531726	25	2.37E+01	0.559768142	25
0.268628017	7	4.79E-02	-0.542426433	7
-0.092793046	10	4.16E-01	-0.54029314	10
-1	6	7.40E+01	-0.772552777	6
0.501669728	10	3.52E-03	-1	10
0.916537929	35	6.45E-12	-0.972330061	35
2	34	4.71E-22	-0.873783047	34
0.16783773	15	2.08E-02	-0.581968396	15
0.459760351	31	1.99E-06	0.080197306	31
0.290030822	4	9.21E-02	0.039774716	4
0.720935094	5	9.16E-03	-0.084155328	5
0.104962436	13	5.59E-02	0.08004586	13
-0.988508575	14	5.54E+03	-0.214899509	14
2	8	2.97E-06	0.426568125	8
2	13	1.86E-08	0.604817519	13
-0.590173504	8	1.20E+01	-1	8
-2	10	5.28E+05	-2	10
-0.432808622	15	1.85E+01	-0.997748244	15
-0.196272081	8	8.49E-01	-0.347003823	8
0.120083084	13	4.81E-02	-0.284344254	13
-0.074790906	8	3.76E-01	-0.118002034	8
-0.051662699	67	3.64E-02	0.450120613	67
2	6	3.29E-05	-0.896196473	6
-0.195915542	17	1.42E+00	0.116483904	17
-0.021208264	6	2.94E-01	-0.183436357	6
-0.209978794	9	9.96E-01	-0.496887513	9
-0.551953587	5	3.87E+00	-0.268883124	5
-1	8	7.75E+02	0.353181767	8
-0.101438073	6	4.53E-01	-0.622724887	6
-0.5341678	5	3.55E+00	0.352524944	5
0.106039107	6	1.48E-01	0.345105485	6
0.274666755	15	6.21E-03	0.512652683	15
0.39506485	10	8.28E-03	0.691277597	10
-1	2	7.75E+00	-0.916377665	2
-0.680205096	2	2.31E+00	-0.56863829	2
-0.542147409	5	3.69E+00	-0.464996674	5
0.695261688	26	1.63E-07	-1	26
-0.081542518	4	4.21E-01	-0.252898463	4
-0.084504538	47	2.20E-01	-0.217692629	47
0.493035884	1	1.31E-01	-2	1
1	7	4.34E-05	0.251903423	7
0.451619769	25	2.15E-05	-1	25
0.054579559	1	3.32E-01	-0.017795498	1

-0.656195269	4	4.43E+00	-2	4
-0.896506417	3	7.06E+00	-2	3
2	4	1.11E-04	-2	4
1	5	1.55E-03	-0.443832914	5
-0.495970205	12	1.76E+01	-0.92455917	12
0.302179565	9	2.28E-02	-0.635914036	9
0.773033848	5	7.16E-03	-1	5
-0.282674383	6	1.21E+00	-0.389199259	6
-0.053514321	8	3.26E-01	-0.303400835	8
-0.346382033	8	2.33E+00	-0.130498068	8
-0.288381888	31	2.39E+01	-0.956149317	31
-0.249703158	9	1.33E+00	-0.510559966	9
-0.175863029	14	9.67E-01	-0.770639355	14
-0.270806722	17	3.66E+00	-0.272892811	17
1	5	2.92E-04	-0.841974963	5
-0.212321168	12	1.24E+00	-1	12
-0.950948255	8	1.35E+02	-0.997260025	8
-0.850175581	33	1.31E+07	-0.165313854	33
-0.051853116	3	3.87E-01	0.145464575	3
-2	4	9.72E+02	0.738783896	4
-0.497132091	8	6.41E+00	1	8
0.583832739	6	1.12E-02	2	6
0.545754614	10	2.47E-03	-0.53558526	10
0.126383845	6	1.32E-01	-2	6
0.081578907	9	1.16E-01	-0.835547815	9
-0.023559705	4	3.32E-01	-0.047554355	4
-1	11	1.27E+03	-1	11
-0.621409068	10	2.89E+01	-0.290870161	10
-1	8	1.09E+03	-0.701596605	8
-0.427055478	1	9.26E-01	0.022063976	1
0.96084739	7	7.22E-04	0.335718316	7
-0.048526664	6	3.41E-01	0.098334445	6
-0.244739493	11	1.54E+00	-0.797526906	11
0.213295995	7	6.70E-02	-0.090827585	7
-0.25814441	9	1.42E+00	0.117154913	9
-0.530707726	6	4.61E+00	0.734429107	6
-0.309999105	3	9.40E-01	-0.172219437	3
-0.548079796	5	3.80E+00	-0.204314996	5
-0.727458519	11	1.02E+02	1	11
-0.647819013	5	6.10E+00	0.528630391	5
-0.096819296	3	4.52E-01	0.086251398	3
-0.917466829	11	5.29E+02	0.686395753	11
-0.863153257	9	1.23E+02	2	9
-2	10	1.67E+05	0.621441666	10
-3	14	2.78E+13	-2	14
-2	12	2.46E+07	-2	12
-3	3	3.93E+03	-3	3

-1	6	9.24E+01	-0.92961182	6
-0.126561272	2	4.94E-01	-0.569894438	2
-0.266925116	5	9.99E-01	-0.633641948	5
0.038631768	8	1.75E-01	-0.266860642	8
-0.053472568	8	3.26E-01	-0.817538184	8
-0.581274296	8	1.13E+01	0.256660711	8
-0.03164156	2	3.80E-01	-0.128165086	2
-0.168607992	18	1.05E+00	0.443833756	18
-2	5	1.63E+03	0.458028074	5
-0.32020827	3	9.74E-01	-0.164746002	3
-0.075037047	5	4.02E-01	-0.295414162	5
-0.280955547	5	1.07E+00	-0.286069183	5
-0.178709719	3	5.99E-01	-0.159509662	3
-0.420039263	4	1.68E+00	-0.206959152	4
-1	5	5.77E+01	-1	5
0.044210699	6	2.06E-01	-0.253993701	6
-0.146602526	9	6.24E-01	-0.213802589	9
-0.682999846	3	3.39E+00	-0.284100099	3
-2	6	3.69E+03	-0.594884559	6
-1	10	1.53E+03	0.817016728	10
-0.286031305	9	1.74E+00	-0.239985296	9
-0.291488949	7	1.43E+00	0.983975663	7
0.088869286	4	2.10E-01	0.245346612	4
0.215335177	3	1.55E-01	-0.002075554	3
0.389535463	21	2.40E-04	-0.444055467	21
0.272535729	13	1.05E-02	-0.505068084	13
-0.833575711	7	3.81E+01	-0.683772485	7
-0.249896792	7	1.11E+00	0.104854641	7
0.57019978	55	4.17E-12	2	55
-0.371307525	4	1.38E+00	0.941631835	4
-0.45179705	8	4.72E+00	0.39381378	8
2	14	1.61E-11	-0.873214625	14
-0.730682703	116	4.27E+20	1	116
-0.989179179	7	9.79E+01	-1	7
-0.715356314	2	2.55E+00	0.003492564	2
-0.553213955	7	6.97E+00	-0.465283241	7
0	3	3.24E-01	-0.378864704	3
-0.233053221	4	7.83E-01	-0.113385922	4
-0.03242	4	3.45E-01	-0.12634057	4
-0.345281726	6	1.69E+00	-0.232508782	6
-0.675146153	37	1.02E+06	-0.234798965	37
-0.847502943	11	2.88E+02	-0.829511877	11
-0.078437946	3	4.24E-01	-0.520669636	3
0	1	3.73E-01	-0.006874326	1
-0.525357642	7	5.89E+00	-0.440105149	7
-0.484564438	10	9.65E+00	-0.720495691	10
-0.401298931	5	1.89E+00	-0.21121658	5

-0.105493531	11	4.59E-01	-0.658793634	11
-0.590938148	10	2.27E+01	-0.715721578	10
0.119343031	6	1.37E-01	-0.62995961	6
-0.020748147	2	3.68E-01	-0.065136773	2
-0.619646364	9	2.04E+01	-2	9
-0.262402874	5	9.78E-01	-0.243716541	5
-0.984011715	4	1.69E+01	-1	4
-2	3	1.38E+02	-2	3
-0.391782843	7	2.62E+00	-0.806967709	7
-0.002035611	3	3.26E-01	-0.016305486	3
-0.214649156	6	8.36E-01	-0.00733945	6
-0.170599549	2	5.59E-01	-0.092889046	2
-1	17	2.26E+06	-1	17
-0.347375715	5	1.46E+00	-0.175568343	5
-0.562158732	26	2.10E+03	-0.727629456	26
-0.711155525	14	2.89E+02	-0.598983704	14
-0.747163712	2	2.78E+00	-0.18302201	2
-2	10	1.43E+05	-2	10
-1	3	3.53E+01	-1	3
-1	3	1.33E+01	-1	3
0	1	3.73E-01	-0.363538256	1
-0.438442142	2	1.18E+00	-0.174552558	2
-0.005241971	2	3.53E-01	-0.002249993	2
0.026185785	3	2.96E-01	0.077536357	3
-0.001192793	9	2.14E-01	0.506758215	9
-0.406462931	5	1.94E+00	-0.052243789	5
-0.249639506	6	1.01E+00	-0.238316471	6
0.015771012	4	2.83E-01	0.044125371	4
2	24	8.34E-14	-0.484010221	24
-0.619062431	15	1.52E+02	0.262866555	15
-2	17	9.66E+08	-2	17
-0.093990071	7	4.31E-01	-1	7
0.229780754	11	2.50E-02	-1	11
-0.252185959	19	3.50E+00	1	19
-0.319602831	4	1.12E+00	-0.085658364	4
-0.939737289	10	3.72E+02	-0.714559942	10
-0.432689892	17	2.82E+01	-0.669516474	17
-1	3	1.30E+01	-0.898713096	3
-0.951360916	6	4.48E+01	-0.668445977	6
-0.313180844	5	1.24E+00	-0.454766153	5
0	2	3.48E-01	-0.027327263	2
-0.356491719	7	2.12E+00	-0.219254951	7
-0.295722273	10	2.12E+00	-0.066951427	10
-0.466139775	16	3.40E+01	-0.099676225	16
-0.858478372	7	4.43E+01	-0.459461358	7
-0.818831584	10	1.41E+02	-1	10
-0.131574673	7	5.42E-01	-0.921020854	7

-1	7	3.76E+02	-1	7
-0.395196951	7	2.68E+00	-1	7
-0.713982855	8	2.75E+01	-2	8
-1	11	2.04E+03	-1	11
-0.28101782	4	9.53E-01	-0.07597407	4
-0.388538392	7	2.57E+00	-0.955010413	7
-0.585548775	15	1.04E+02	1	15
-0.83090987	21	2.85E+04	-0.502597182	21
-0.558191817	11	2.34E+01	-1	11
-0.607180633	18	3.54E+02	0.143862387	18
-0.840626533	6	2.46E+01	-0.473386013	6
0.843451998	5	5.12E-03	0.096466071	5
0.195212531	17	1.02E-02	-0.465799444	17
0.167625652	38	3.27E-04	2	38
-0.160381312	4	5.82E-01	0.236797773	4
0.590759056	15	1.74E-04	1	15
0.600861453	1	1.04E-01	1	1
0.499206574	4	3.91E-02	1	4
0.130696693	6	1.29E-01	0.943379142	6
-2	7	5.88E+03	-0.342217613	7
-0.564317027	6	5.53E+00	0.33217417	6
0.053517893	12	1.04E-01	0.331523429	12
0.671563702	5	1.16E-02	-0.016590567	5
0.458881825	9	7.20E-03	-0.07654427	9
0.133452604	11	5.77E-02	-0.224167025	11
-0.167732573	11	7.89E-01	-0.087186156	11
-1	7	1.26E+03	-0.645429849	7
-0.363551436	14	7.14E+00	-0.126677206	14
-0.749941007	9	5.33E+01	2	9
-0.067271369	2	4.19E-01	4	2
-0.354384702	7	2.09E+00	-0.007047508	7
-0.25118597	7	1.12E+00	-0.389714543	7
-0.301246702	11	2.51E+00	-0.780150767	11
0.153442552	3	1.91E-01	-0.383138064	3
-0.520641438	5	3.33E+00	-0.48885848	5
-0.966723594	4	1.58E+01	0.057339827	4
-0.218490793	7	9.17E-01	-0.381939344	7
-0.680113232	11	6.74E+01	-0.468420594	11
-0.705202058	10	5.67E+01	-0.473859469	10
-0.188580882	5	6.89E-01	-0.888768116	5
-1	12	1.32E+05	-0.918700331	12
0	3	3.24E-01	-0.150842004	3
-0.076961825	4	4.14E-01	-0.034297155	4
-0.036352157	1	4.03E-01	0.014645935	1
-0.457890142	22	1.22E+02	-0.431564994	22
-0.63430699	6	8.07E+00	-0.966362438	6
0.336282057	5	5.69E-02	-0.288426549	5

0.014496086	3	3.08E-01	-0.04934878	3
0.538847072	7	9.32E-03	-0.743399126	7
-0.556590458	3	2.20E+00	-0.607559868	3
-0.165537081	1	5.31E-01	-0.160923363	1
-0.995741065	5	3.18E+01	-0.978872218	5
-1	5	3.87E+01	-0.569994311	5
-0.920265638	3	7.67E+00	-0.253499936	3
-0.159745915	4	5.80E-01	-0.048712113	4
0.865884004	3	1.65E-02	-0.282851587	3
0.058686441	5	2.13E-01	-0.271569392	5
-0.016736716	3	3.43E-01	-0.230603695	3
-0.100996243	5	4.54E-01	-0.254588694	5
0	2	3.48E-01	0	2
-1	5	2.68E+02	-1	5
1	1	4.18E-02	-0.193189757	1
0	3	3.24E-01	-0.165090085	3
-0.508450388	5	3.15E+00	-0.670369968	5
-0.522315	5	3.36E+00	-0.448810001	5
-2	4	1.57E+03	-1	4
-0.260270134	3	7.93E-01	-0.129415424	3
-0.015758099	2	3.63E-01	-0.00898307	2
0.314221166	5	6.32E-02	-0.455467762	5
-2	4	3.70E+02	-0.676373333	4
-0.059685639	8	3.39E-01	-1	8
-0.150470459	3	5.43E-01	-0.0533484	3
-0.882771958	9	1.42E+02	0.030285403	9
-0.207046661	2	6.19E-01	-0.001197171	2
-0.007510556	1	3.79E-01	-0.006250739	1
-0.571060502	3	2.31E+00	-0.837530814	3
-1	2	1.60E+01	-0.467670501	2
-0.295563352	5	1.14E+00	-0.310028975	5
-2	5	1.54E+03	-0.777285034	5
-0.225366123	4	7.59E-01	-0.541082627	4
0.06267103	4	2.34E-01	-0.375925657	4
-0.531974454	6	4.64E+00	-0.627831644	6
-0.492959721	2	1.37E+00	-0.644585464	2
-0.09733775	2	4.56E-01	-0.115278838	2
-0.775620482	3	4.66E+00	-2	3
-0.370444841	7	2.30E+00	-0.197556274	7
-0.365830337	4	1.35E+00	-0.144310557	4
-0.197439677	2	6.02E-01	-0.244474706	2
-0.002944491	6	2.66E-01	-0.081462658	6
-0.00386538	6	2.67E-01	-0.383261416	6
-0.12681047	3	5.01E-01	-0.109887901	3
0.005883216	7	2.36E-01	-1	7
-1	6	6.68E+01	-0.290450681	6
-0.037732189	1	4.04E-01	0.073315685	1

0.253639126	5	8.43E-02	0.545150964	5
-0.557628694	7	7.16E+00	-0.255613938	7
-0.075424419	2	4.29E-01	0.01666656	2
-0.647195642	4	4.27E+00	0.035640812	4
0.599247315	7	6.46E-03	-0.776218039	7
-0.817785438	5	1.37E+01	-1	5
-0.207279855	10	1.04E+00	-1	10
-0.309949587	6	1.40E+00	-0.093910357	6
-0.684968884	3	3.41E+00	-0.268451499	3
-0.172092223	4	6.10E-01	-0.459485609	4
-1	22	1.01E+07	-0.307900704	22
0.136854191	4	1.72E-01	-0.117988102	4
-0.506946733	4	2.40E+00	-0.477536338	4
-0.477996966	4	2.14E+00	-2	4
-0.501979502	4	2.36E+00	-0.390427661	4
-0.232247142	3	7.20E-01	-0.303076684	3
0	2	3.48E-01	-0.929389552	2
0.334085282	5	5.75E-02	-0.150747936	5
-0.170488649	4	6.06E-01	-0.076354254	4
-0.555947118	5	3.94E+00	-0.543407682	5
-0.653791082	6	8.97E+00	-2	6
0	4	3.02E-01	-0.183023402	4
2	5	2.53E-05	0.102324721	5
-0.500413759	6	3.92E+00	-1	6
-0.973832723	7	8.92E+01	-0.501751215	7
-0.987759512	9	3.08E+02	-0.461450575	9
-2	8	6.53E+03	-0.644106243	8
-0.394984228	2	1.04E+00	-0.373991206	2
-2	4	7.43E+02	-2	4
-0.051157837	2	4.01E-01	-0.139861704	2
-0.065042792	1	4.29E-01	-0.099826195	1
-0.850172403	5	1.59E+01	-1	5
0.24664012	1	2.21E-01	-0.837967766	1
-0.582023933	3	2.40E+00	-0.387562573	3
-0.630730293	5	5.62E+00	-0.064535045	5
0	3	3.24E-01	-0.066299007	3
-0.648810258	3	3.01E+00	-0.117669036	3
-0.809753586	11	2.08E+02	-0.30155173	11
0.026923645	1	3.52E-01	-0.028429414	1
0.143301786	7	1.02E-01	-0.84890747	7
-0.653413312	2	2.14E+00	-1	2
-0.705144946	4	5.41E+00	-0.693472596	4
-0.105614827	6	4.64E-01	-0.180756304	6
-0.099541058	3	4.56E-01	-0.15771067	3
-0.603419157	17	2.43E+02	-0.250977616	17
-0.472537193	1	1.02E+00	-0.22013707	1
0.245968178	15	8.59E-03	0.275066486	15

-1	41	1.84E+12	-0.495751537	41
-1	23	7.45E+06	-0.581325027	23
-0.916123657	21	1.04E+05	-0.21663839	21
-1	22	1.30E+07	0.385668083	22
-1	8	2.88E+02	0.857170583	8
0.023288154	7	2.12E-01	-0.368590665	7
0	2	3.48E-01	-0.045171255	2
-0.869684814	5	1.75E+01	-0.141586659	5
-1	4	3.02E+01	-0.748071863	4
0.048277225	14	8.89E-02	-0.459790057	14
-0.030876512	4	3.42E-01	-0.112389385	4
-0.035878726	5	3.33E-01	-0.146843484	5
-0.008633817	5	2.93E-01	-0.051182879	5
-0.104290539	5	4.61E-01	-0.099084766	5
0.263511942	6	6.31E-02	-0.337873175	6
-0.998148241	14	6.14E+03	-0.451053453	14
-0.44731597	4	1.88E+00	-0.262337004	4
-0.029171445	3	3.58E-01	-0.006130065	3
-1	12	4.48E+03	-0.992960726	12
0.244504862	4	1.11E-01	-0.525911622	4
-1	7	6.53E+02	-0.892916547	7
-0.059017358	1	4.23E-01	0.003899221	1
-1	1	3.30E+00	0.026392136	1
-0.439425557	2	1.18E+00	-0.748821312	2
-0.847903111	5	1.58E+01	-0.501106914	5
-0.01082262	3	3.36E-01	-0.476843165	3
-0.732044914	6	1.37E+01	-0.437940747	6
0	4	3.02E-01	-0.072733989	4
0	3	3.24E-01	-0.014500794	3
-0.864836113	3	6.34E+00	-1	3
-0.447289611	4	1.88E+00	-0.518827793	4
-0.216609341	4	7.32E-01	-0.402485656	4
-0.140351005	4	5.36E-01	-0.052745603	4
0.007988944	4	2.92E-01	0.004358004	4
-0.84202348	10	1.70E+02	-1	10
-0.226778411	8	1.04E+00	-0.065107708	8
-0.506553832	2	1.42E+00	-0.093393763	2
0.17578694	5	1.22E-01	-0.822855534	5
-0.259349739	12	1.93E+00	-0.746749693	12
0	4	3.02E-01	0	4
-1	7	1.65E+02	-0.560606236	7
0.029114649	4	2.68E-01	-0.092539247	4
-0.934075509	4	1.38E+01	-0.323325437	4
-1	3	2.52E+01	-1	3
-0.081767406	4	4.22E-01	-0.884934717	4
0.001992342	4	2.99E-01	-0.520300347	4
-0.008124446	1	3.80E-01	-0.010130996	1

0.048975342	5	2.23E-01	-0.572047834	5
-1	8	2.27E+02	-0.906397519	8
0.485186344	6	1.90E-02	1	6
-0.705314739	4	5.42E+00	0.509923039	4
-0.438602967	4	1.82E+00	-0.081208235	4
-0.663967578	5	6.58E+00	-0.663110755	5
-0.437465912	6	2.79E+00	-0.589735815	6
0.170294431	11	4.19E-02	-0.190185251	11
-0.04987967	8	3.18E-01	-0.34290878	8
0.19772698	5	1.10E-01	0.117976809	5
-0.132216996	3	5.10E-01	-0.024095848	3
2	4	3.68E-04	0.709229113	4
0.737713103	3	2.56E-02	0.46776196	3
1	6	3.05E-04	0.469395635	6
1	10	4.00E-05	0.472819237	10
0.111863029	8	1.07E-01	-0.721195542	8
0.145075022	8	8.58E-02	-0.223743924	8
-2	4	2.22E+02	-1	4
-0.678366089	9	3.14E+01	-0.87887428	9
0.203646784	10	3.85E-02	-0.148373852	10
-0.178810367	43	3.83E+00	0.559454068	43
-0.254578583	4	8.56E-01	0.201350637	4
-0.411534677	10	5.37E+00	-0.112189698	10
-0.632678532	4	4.02E+00	2	4
0.919215593	5	3.57E-03	-0.477841094	5
-2	53	4.38E+23	-1	53
-2	6	3.00E+03	-2	6
-3	7	3.89E+08	-2	7
-3	4	6.69E+04	-2	4
-0.045468582	2	3.95E-01	0.061649534	2
-0.27128404	16	3.31E+00	0.385832914	16
-1	13	4.95E+04	-0.33037829	13
1	7	5.26E-04	0.641387003	7
1	7	1.59E-04	0.633376262	7
0.948689432	13	1.22E-05	0.065669809	13
0.603124535	3	4.07E-02	-0.419852838	3
-0.285876379	4	9.73E-01	0.062950663	4
-2	5	1.24E+03	-0.955833192	5
-1	8	4.79E+02	-0.866757907	8
-0.918791051	4	1.30E+01	-0.803422123	4
-0.870856354	4	1.07E+01	-0.706568845	4
-0.768787995	7	2.57E+01	-0.520276063	7
-0.151840183	9	6.49E-01	-0.447432591	9
-0.583757192	4	3.29E+00	-0.391872737	4
0.367222171	13	4.07E-03	0.272604874	13
-0.071740662	6	3.86E-01	-0.0527901	6
-0.90970641	5	2.11E+01	-0.715812709	5

-0.127072216	4	5.08E-01	-0.222073886	4
-0.456017932	9	6.11E+00	-0.46110272	9
-0.264779567	8	1.35E+00	-0.530796935	8
-0.162923626	11	7.56E-01	-0.78334487	11
-0.178454575	7	7.20E-01	-0.410388652	7
-0.248699887	2	6.95E-01	-0.057843481	2
-0.509746331	7	5.36E+00	-0.763130766	7
-0.477169813	1	1.03E+00	-0.602213387	1
-0.162787419	5	6.09E-01	-0.725213789	5
-1	3	1.66E+01	-0.699210905	3
-0.449167644	13	1.42E+01	-0.434273271	13
-0.921227678	19	3.89E+04	-0.620288476	19
0.278215838	17	3.60E-03	0.907932058	17
0.828381836	8	8.73E-04	0.54599328	8
0.50813747	4	3.77E-02	0.031461426	4
-0.482736999	7	4.55E+00	-0.114489827	7
-0.214693225	5	7.79E-01	-0.597240096	5
-0.037907016	5	3.37E-01	-0.160452172	5
-0.973453723	11	8.61E+02	-0.636496836	11
0.428729291	24	4.59E-05	0.447031592	24
-0.320222012	6	1.48E+00	0.068937866	6
-0.249788819	8	1.22E+00	-0.265466693	8
0.473490812	56	1.07E-10	-0.460635578	56
0.718527626	5	9.27E-03	0.606559593	5
0.333494968	4	7.71E-02	0.940179769	4
0.177024115	4	1.46E-01	0.566921351	4
1	19	1.97E-09	-2	19
-0.070013362	2	4.22E-01	-0.781952679	2
-1	4	3.92E+01	-0.354349211	4
-0.983341916	5	3.00E+01	-0.174287319	5
-1	7	4.35E+02	-0.326097481	7
-0.100484465	12	4.38E-01	-0.274107262	12
0.019337541	12	1.43E-01	-0.149795035	12
0.207521292	2	1.95E-01	0.082669059	2
-0.568098447	11	2.55E+01	-1	11
-0.012334056	3	3.38E-01	-0.029862751	3
0	3	3.24E-01	-0.083707877	3
-0.815376109	11	2.18E+02	-0.339845923	11
-0.007014087	3	3.32E-01	-0.003925035	3
0	2	3.48E-01	-0.014928282	2
-0.916743701	9	1.82E+02	-0.541392536	9
-0.16231318	5	6.08E-01	-0.141235084	5
-0.218883998	4	7.39E-01	-0.02033906	4
-1	17	2.01E+05	-0.912945311	17
-1	5	1.42E+02	-0.719082591	5
-2	7	2.38E+03	-2	7
-0.118050122	8	5.02E-01	-1	8

-0.025092856	3	3.53E-01	-0.005342245	3
0.049559295	5	2.22E-01	-0.313790267	5
-0.32367026	5	1.31E+00	-0.329523387	5
-0.218684326	7	9.18E-01	-0.201119006	7
-1	13	9.12E+03	-1	13
-1	3	1.66E+01	-0.945864146	3
-2	50	1.36E+29	-2	50
-0.599430748	8	1.27E+01	-1	8
-1	13	1.03E+04	-1	13
-0.19914827	12	1.10E+00	-0.050024042	12
-0.459614315	14	1.98E+01	-0.129669723	14
0.594562384	6	1.05E-02	0.34727669	6
0.66561609	4	1.98E-02	0.051708	4
-0.720569151	13	2.14E+02	-0.967125033	13
-0.338537527	7	1.90E+00	-0.396556373	7
-0.765127963	13	3.34E+02	-1	13
-0.441029706	5	2.28E+00	-0.323203692	5
0.052766928	11	1.16E-01	-0.381269664	11
-0.535828675	14	4.47E+01	-0.884758493	14
-0.655395651	3	3.08E+00	-1	3
-0.519650574	18	1.11E+02	-0.243711727	18
-0.394312233	5	1.83E+00	-0.315453228	5
-0.865809445	7	4.64E+01	-0.768341728	7
0	2	3.48E-01	-0.181436138	2
-0.078097195	2	4.32E-01	-0.066162566	2
-2	8	4.18E+05	-2	8
-0.75237682	17	1.59E+03	-1	17
-0.794488919	13	4.48E+02	-1	13
-2	3	9.33E+01	-1	3
-0.207530191	11	1.11E+00	-0.432948156	11
0.301174689	2	1.50E-01	2	2
0.199997625	15	1.44E-02	2	15
-1	7	1.07E+03	0.993170807	7
-0.648627509	9	2.53E+01	0.225793919	9
-0.064101653	7	3.60E-01	-0.209247149	7
-0.123628542	5	5.06E-01	-0.141002726	5
0.145962638	3	1.96E-01	-0.389985083	3
1	37	5.23E-17	-0.477551324	37
-0.203860486	6	7.88E-01	-0.972492693	6
1	6	8.47E-04	-0.335948954	6
-0.094655197	12	4.15E-01	-0.881889229	12
0.467593829	9	6.75E-03	1	9
-1	10	7.36E+02	-0.615553595	10
-0.412897455	6	2.44E+00	-0.163160264	6
-0.570252077	2	1.70E+00	-0.449013364	2
0.739274216	5	8.40E-03	-0.102537963	5
3	8	2.53E-09	-0.36892353	8

0.467105578	9	6.77E-03	-0.6446951	9
2	10	5.98E-09	-1	10
-0.59197364	4	3.41E+00	-1	4
-0.675506174	15	2.87E+02	-0.962736664	15
-0.24789417	7	1.10E+00	-0.255608625	7
-1	3	1.53E+01	-0.763324049	3
-1	6	4.13E+02	-1	6
-0.712829195	5	8.30E+00	-0.290362189	5
0	2	3.48E-01	-0.023588134	2
0.037567237	4	2.59E-01	-0.158411676	4
0.42578251	3	7.49E-02	-0.109580244	3
-0.382932685	4	1.45E+00	-0.024579245	4
0.835200123	3	1.83E-02	0	3
0	6	2.62E-01	0.014587152	6
-1	2	5.85E+00	-2	2
-0.179554029	8	7.59E-01	-0.135500319	8
-0.35562018	10	3.43E+00	-0.474468655	10
-2	6	3.23E+03	-0.855223106	6
-0.720955932	17	1.07E+03	-0.745620362	17
-0.054363928	4	3.77E-01	-0.367167815	4
-0.635371308	12	6.46E+01	0.209602355	12
0.247994514	5	8.66E-02	-0.010588584	5
0.167810976	4	1.52E-01	-0.005073132	4
-0.158920507	8	6.61E-01	-0.14012388	8
-0.965979285	7	8.51E+01	-0.594495092	7
-0.2513502	7	1.12E+00	-0.85574957	7
-0.209857572	12	1.22E+00	0.443557336	12
0.677728012	2	5.27E-02	-0.283755716	2
0.917912542	7	9.37E-04	-0.658326319	7
-0.785837914	18	3.78E+03	-0.738303624	18
-0.441178523	12	1.05E+01	-0.317002199	12
-0.904546494	9	1.67E+02	0.02284967	9
-0.091677502	9	4.16E-01	0.010044074	9
-2	6	5.28E+03	-1	6
-1	13	7.47E+03	-0.758963429	13
-0.26780542	10	1.69E+00	-0.178209735	10
0.0582692	77	8.34E-05	0.660910065	77
0.690933671	5	1.06E-02	-0.623699086	5
-0.485147037	11	1.24E+01	2	11
0.398785059	13	2.97E-03	-0.517849496	13
-0.924750138	5	2.27E+01	-1	5
0.383350639	19	5.01E-04	-0.05632795	19
-0.067710357	6	3.78E-01	0.368015857	6
-0.397152412	4	1.53E+00	0.559184581	4
-0.632273793	4	4.02E+00	-0.075130565	4
-0.37187875	4	1.38E+00	-0.088054114	4
2	31	6.24E-24	2	31

-0.000996706	12	1.73E-01	-0.032508974	12
1	3	5.47E-03	0.643367317	3
0.118895793	23	1.10E-02	0.807584339	23
-0.800163663	4	7.98E+00	-0.633150008	4
-0.40734492	9	4.27E+00	-0.73881206	9
-0.863019804	8	7.48E+01	-0.679805743	8
-1	10	1.24E+03	-1	10
-0.882910173	2	4.06E+00	-0.508695194	2
-0.065634227	1	4.29E-01	-0.0578864	1
0.679365006	5	1.12E-02	-0.198388028	5
0.103475836	1	2.99E-01	-0.186769372	1
0	2	3.48E-01	-0.044294734	2
-1	12	1.58E+04	-1	12
-1	25	1.29E+10	-2	25
-3	17	1.95E+13	-3	17
-2	8	5.79E+04	-2	8
0.047309363	8	1.65E-01	0.097041736	8
-1	12	1.49E+04	0.064506791	12
-0.003351778	3	3.28E-01	0.375173618	3
0.317875244	31	4.38E-05	0.040987807	31
-0.091955967	53	2.63E-01	-0.092150281	53
0.083378157	22	2.24E-02	0.112086936	22
-0.871724477	7	4.80E+01	-0.406657918	7
-0.967367704	6	4.88E+01	-1	6
-2	7	8.58E+03	0.561366774	7
-2	6	1.80E+03	-2	6
0	1	3.73E-01	-0.020525485	1
-2	4	2.20E+02	-2	4
0.126165492	7	1.14E-01	-0.340431045	7
0.438392353	10	5.85E-03	0.156632726	10
-0.146593961	35	1.20E+00	1	35
-0.746112668	1	1.82E+00	0.51759632	1
-0.85912282	7	4.45E+01	-0.477056425	7
-3	6	4.53E+05	0.080822802	6
-0.228629909	1	6.07E-01	0.023919487	1
-0.343328186	5	1.44E+00	0.235479685	5
-1	6	1.07E+02	0.064205064	6
-0.174620299	14	9.54E-01	0.135112701	14
-0.333607212	14	5.19E+00	-0.510558007	14
-0.561221874	5	4.04E+00	-0.184063666	5
-0.072686198	1	4.36E-01	-0.020525485	1
0.110021923	6	1.45E-01	-0.402163918	6
0.368841319	3	9.11E-02	-0.902807311	3
1	12	6.42E-06	-0.35837668	12
2	20	1.62E-12	0.817365943	20
-0.523261175	3	1.96E+00	-0.2603861	3
-0.42794157	3	1.41E+00	-0.905953052	3

0.333023866	9	1.82E-02	-0.852175711	9
0.359780815	12	5.95E-03	-0.467182528	12
0.175704316	3	1.77E-01	-0.714237508	3
0.575360594	9	3.05E-03	-0.724504891	9
-0.000336354	2	3.48E-01	9.32E-05	2
-0.058545773	6	3.59E-01	-0.064460138	6
-0.656799308	14	1.62E+02	-0.487468447	14
0	1	3.73E-01	-0.004391647	1
-0.118549456	3	4.87E-01	-0.185538164	3
0.093003459	10	9.36E-02	-0.410117324	10
0.488181309	9	5.80E-03	-0.106495557	9
-0.103476159	4	4.61E-01	-0.019897909	4
-0.207768254	7	8.60E-01	0.009371476	7
-0.255587425	7	1.15E+00	-0.149652302	7
-0.21804036	10	1.14E+00	-0.29313196	10
-0.319903088	3	9.73E-01	-0.448839719	3
-0.30095132	3	9.12E-01	-0.555461193	3
-0.0686351	5	3.90E-01	-0.248710159	5
-0.241914333	7	1.06E+00	-0.092793379	7
-0.176372209	8	7.43E-01	-0.272988849	8
-1	7	6.53E+02	-0.493267795	7
2	9	2.18E-06	-0.570432557	9
-1	6	7.48E+01	-0.611688988	6
-1	8	1.90E+03	0.107766187	8
-0.388658917	7	2.57E+00	0.175868668	7
0.326498275	25	2.00E-04	0.977803749	25
-0.292159788	20	6.88E+00	0.799363414	20
0.028453023	56	2.57E-03	0.49416878	56
0	6	2.62E-01	0	6
0	3	3.24E-01	0	3
0	12	1.71E-01	0	12
0	2	3.48E-01	0	2
0	3	3.24E-01	0	3
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0	1	3.73E-01	0	1
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0	1	3.73E-01	0	1
0	2	3.48E-01	0	2
0	2	3.48E-01	0	2
-0.085141487	1	4.47E-01	-0.023903793	1
-0.110638384	26	4.93E-01	-0.013449075	26
0	6	2.62E-01	0	6
0	3	3.24E-01	0	3
0	12	1.71E-01	0	12
0	2	3.48E-01	0	2
0	2	3.48E-01	0	2
0	1	3.73E-01	0	1

0	4	3.02E-01	0	4
0	1	3.73E-01	0	1
0	2	3.48E-01	0	2
0	2	3.48E-01	0	2
0	1	3.73E-01	0	1
0.148347016	5	1.39E-01	-0.044508903	5
-9.73E-05	1	3.73E-01	-0.192484307	1
-0.576563896	8	1.09E+01	0.072545292	8
-0.155258285	3	5.52E-01	-0.11858613	3
0.93129992	7	8.64E-04	2	7
-1	13	6.08E+03	-0.350123523	13
-0.830956989	5	1.45E+01	-1	5
-1	22	1.36E+08	-1	22
-0.821384022	6	2.22E+01	-0.801820088	6
0.248629237	10	2.68E-02	-0.564440662	10
-0.96140266	15	7.26E+03	-0.341185872	15
0.607714216	29	2.02E-07	-0.235316401	29
-0.636886936	20	1.05E+03	-0.348604112	20
-2	9	1.36E+04	0.173290436	9
-2	15	6.31E+08	-0.658869126	15
-0.909540739	4	1.25E+01	-0.365368273	4
0.270492064	5	7.78E-02	-0.043353888	5
-0.526162782	8	7.78E+00	-0.785913237	8
-0.262319516	6	1.08E+00	-0.211548645	6
-0.580243648	3	2.38E+00	-0.508344831	3
-0.033339086	3	3.63E-01	-0.144234042	3
0.01059517	7	2.29E-01	-0.590494475	7
0.105480511	2	2.59E-01	-0.176857998	2
-0.569101836	9	1.41E+01	-0.496955941	9
-0.225506754	9	1.12E+00	-1	9
-0.462956371	5	2.53E+00	0	5
-0.025253185	2	3.73E-01	-0.005988125	2
-0.017357118	5	3.05E-01	-0.243168517	5
-0.118011903	3	4.86E-01	0.037967631	3
-2	4	1.57E+02	-1	4
-0.285436005	7	1.38E+00	-0.080427858	7
-0.153033798	8	6.35E-01	-0.440751046	8
-0.150994817	4	5.60E-01	-0.202936068	4
-0.654644354	7	1.29E+01	-0.592683723	7
-2	11	1.10E+05	-1	11
-0.379636628	21	2.95E+01	-0.777311438	21
-0.579788194	8	1.12E+01	-0.058593897	8
-0.321053156	12	3.43E+00	-0.310828032	12
0.060207849	1	3.28E-01	-0.237699388	1
-0.801423714	5	1.26E+01	-0.480255035	5
0.084566444	2	2.75E-01	-0.617402593	2
-0.761890661	2	2.90E+00	-0.428137659	2

-1	4	9.36E+01	-1	4
-1	3	3.87E+01	-2	3
-1	5	4.98E+01	-0.903366519	5
-0.801395035	2	3.23E+00	-0.611803704	2
-0.756413117	7	2.39E+01	-0.467479523	7
-3	5	6.28E+04	-2	5
-2	6	1.77E+03	-0.339287724	6
-0.567544153	13	4.63E+01	-0.668037421	13
-2	4	1.42E+03	0.422751017	4
-1	4	8.72E+01	-0.258389596	4
-0.144289248	6	5.71E-01	0.249121646	6
-2	6	9.03E+02	-0.29993747	6
-2	4	6.64E+02	-0.09399971	4
0.282711996	4	9.49E-02	1	4
-1	6	2.39E+02	-0.771597598	6
-0.98602231	7	9.60E+01	-1	7
0.075962112	3	2.49E-01	-0.082897733	3
-2	4	7.65E+03	-2	4
-3	6	2.34E+05	-3	6
-0.470579549	23	1.89E+02	-0.508071351	23
-0.054142418	2	4.04E-01	-0.235614592	2
-0.167397704	1	5.33E-01	-0.256362453	1
-2	5	4.52E+02	-0.698607846	5
-2	2	2.97E+01	-0.150187065	2
-0.153684044	3	5.49E-01	-0.550472569	3
-0.316236662	6	1.45E+00	0.266000312	6
-0.064275987	2	4.16E-01	0.026310265	2
-1	5	1.26E+02	-1	5
0	3	3.24E-01	-0.486368909	3
-0.357148465	7	2.13E+00	-0.876357482	7
-2	11	2.59E+05	-1	11
-1	10	8.20E+02	-2	10
-1	8	3.29E+02	-2	8
-0.395054889	2	1.04E+00	-0.074039205	2
-1	7	3.67E+02	0.731144579	7
-2	6	2.65E+03	-1	6
-1	6	3.65E+02	-0.214701061	6
-0.804110296	10	1.25E+02	-0.10114587	10
0.509689874	14	6.54E-04	-0.569708641	14
-0.421829846	4	1.70E+00	-1	4
0.053014195	15	7.61E-02	0.316856275	15
-0.065296295	16	2.82E-01	-0.525384589	16
0.170286929	15	2.02E-02	2	15
0.941294911	9	2.06E-04	0.271968789	9
-2	6	1.80E+03	-1	6
3	13	1.20E-12	-0.826839506	13
-1	9	1.34E+03	-0.349736462	9

0.271054648	9	2.87E-02	0.400855515	9
-0.240992728	19	2.99E+00	2	19
-0.573215319	7	7.87E+00	0.040920474	7
-0.225019242	4	7.58E-01	1	4
-0.265232883	12	2.04E+00	-0.308713786	12
-1	27	1.61E+10	-0.558272394	27
-0.834573137	7	3.84E+01	0.040830944	7
-1	7	4.29E+02	-1	7
-1	16	6.89E+05	-1	16
-0.880069831	3	6.68E+00	-0.544641261	3
-1	2	1.21E+01	-0.870456011	2
-0.557580323	10	1.73E+01	-0.447390095	10
-0.981057258	7	9.32E+01	2	7
-0.615232598	4	3.75E+00	-0.974904068	4
-0.320282792	5	1.29E+00	-0.451898887	5
-2	7	3.93E+03	-2	7
-1	17	3.84E+06	-1	17
-0.962341454	6	4.75E+01	-2	6
-0.433290053	14	1.50E+01	-0.41130611	14
1	6	1.41E-04	0.470269797	6
-0.947940344	7	7.62E+01	-0.318689536	7
-0.927561038	16	8.48E+03	0.151080737	16
-0.288820787	15	3.63E+00	-0.085502938	15
-0.313374169	8	1.86E+00	-0.025710404	8
-0.141012758	5	5.49E-01	-0.135145308	5
0.442591149	8	1.16E-02	-0.629411017	8
2	7	3.28E-06	2	7
-0.437434479	12	1.02E+01	0.391591789	12
-0.407631505	12	7.70E+00	-0.000700286	12
-0.353993857	3	1.09E+00	-0.533478379	3
-0.664398953	8	1.97E+01	-0.806335907	8
0.88816884	4	7.96E-03	-1	4
0.896799865	5	3.98E-03	-0.471059399	5
0.393668438	8	1.62E-02	-0.125194393	8
-0.125668226	4	5.05E-01	-0.436902683	4
0.890327055	4	7.89E-03	-0.356123638	4
0.237932298	6	7.24E-02	-0.210756708	6
0	2	3.48E-01	-0.540723949	2
-0.445045342	8	4.52E+00	-0.793285396	8
-1	3	2.06E+01	-0.584921906	3
-0.051821946	3	3.87E-01	-0.224331039	3
-0.224479586	51	2.74E+01	0.027124698	51
0.177036449	3	1.76E-01	0.779288548	3
0.384436829	36	2.04E-06	-0.316963234	36
0.181769892	6	9.81E-02	-0.353822849	6
-0.560178837	19	2.55E+02	0.718311002	19
-0.076975907	1	4.40E-01	-0.023268774	1

-0.037642908	2	3.86E-01	-0.055755864	2
0.375590859	68	1.00E-10	-0.95711991	68
-0.935585803	7	7.07E+01	-0.548816537	7
-0.70722085	7	1.77E+01	-0.529042872	7
-0.012608322	11	2.05E-01	-0.924477803	11
-0.375571664	4	1.40E+00	-1	4
-0.263280933	7	1.20E+00	-0.230717508	7
0.265642499	1	2.12E-01	-0.0431969	1
0.87263865	2	3.07E-02	-0.135432489	2
-1	14	9.74E+03	-2	14
2	14	9.82E-09	1	14
1	6	9.84E-04	-0.475365604	6
2	12	5.49E-09	-0.617246982	12
0.249668683	10	2.66E-02	-0.066763444	10
-0.371221524	8	2.75E+00	0.180798538	8
-0.787146813	6	1.84E+01	-0.08201225	6
0.843002501	5	5.13E-03	-0.133353876	5
0.339079696	8	2.33E-02	-0.998947774	8
-1	14	7.01E+04	-2	14
-0.555099952	7	7.05E+00	-0.483861683	7
-0.383634225	5	1.74E+00	-0.10346426	5
0.132837196	9	7.96E-02	-0.376227938	9
0.006006301	8	2.18E-01	-0.37764978	8
0.288164725	11	1.51E-02	-0.233997127	11
0.429563445	1	1.50E-01	0.517442084	1
-0.05790429	6	3.58E-01	0.760249195	6
-1	4	4.26E+01	0.733169119	4
-2	2	1.82E+02	1	2
-0.156764302	6	6.11E-01	0.168558444	6
-0.62331959	25	4.66E+03	0.545317853	25
-0.143359725	22	8.24E-01	2	22
-0.460182812	11	9.99E+00	-1	11
-0.23547139	6	9.35E-01	-0.401604579	6
-0.168673794	8	7.06E-01	-0.136537384	8
0.007679155	15	1.27E-01	-0.27858878	15
-0.505825241	15	4.21E+01	-0.548128814	15
-1	3	1.61E+01	-2	3
-0.202483265	19	1.75E+00	0.650295716	19
-0.948186849	7	7.64E+01	-1	7
-1	3	1.24E+01	-1	3
-0.808460883	5	1.31E+01	-2	5
-2	3	1.40E+03	-2	3
-1	2	6.53E+00	-0.729886159	2
-1	7	3.96E+02	-1	7
-1	2	6.05E+00	-0.788884292	2
-0.014543776	1	3.85E-01	-0.00606728	1
-0.029243802	2	3.77E-01	-0.010265397	2

-0.127533573	2	4.96E-01	-0.038335553	2
-0.050587169	42	8.88E-02	-0.178440383	42
-0.119560054	16	5.39E-01	-0.87318751	16
-0.774028551	3	4.64E+00	-0.180833901	3
-0.625193534	10	2.98E+01	-0.692922984	10
-1	8	2.22E+02	-0.421514351	8
-0.423498855	13	1.10E+01	1	13
0.152368927	14	2.94E-02	0.159560385	14
-0.297383571	4	1.02E+00	-0.380067247	4
0.323289042	1	1.88E-01	-0.428226702	1
-0.845462487	24	1.52E+05	-2	24
-0.162642221	4	5.87E-01	-0.313579739	4
-1	8	3.95E+02	0.577767064	8
-0.804039452	6	2.02E+01	-0.403390954	6
-0.351430701	12	4.56E+00	-0.187762678	12
-0.517629477	15	4.81E+01	0.787084551	15
0.44279045	17	4.51E-04	0.45877787	17
-0.344010861	8	2.29E+00	-1	8
0.597940753	4	2.61E-02	-0.541957828	4
0.156679806	6	1.12E-01	-0.636265265	6
0.498509571	11	2.43E-03	-0.227984642	11
-0.086318931	21	3.37E-01	0.10901352	21
0.162607085	19	1.08E-02	1	19
0.402003944	3	8.13E-02	-0.290199424	3
1	9	5.60E-05	-2	9
1	4	2.16E-03	-1	4
-0.626846593	10	3.02E+01	-0.444155959	10
-0.664907826	12	8.51E+01	-0.490458133	12
-0.790326888	2	3.14E+00	-0.368890009	2
-0.748346361	4	6.46E+00	-0.959186096	4
-2	9	1.25E+05	-2	9
-0.881177146	4	1.11E+01	-1	4
0.123458313	3	2.12E-01	0.997971468	3
-0.486320936	5	2.83E+00	0.866562035	5
-0.832998468	15	1.70E+03	-1	15
0.019294274	6	2.36E-01	-0.143616451	6
-0.539119352	6	4.83E+00	-0.041958868	6
-0.359955941	4	1.32E+00	-0.113655743	4
0.03039083	11	1.41E-01	-0.602080261	11
-0.196987873	26	2.44E+00	-0.133024479	26
-0.851907179	16	3.43E+03	-0.406742222	16
0.738719487	17	1.08E-05	0.064386475	17
0.614424148	13	3.44E-04	-2	13
-0.911340717	5	2.13E+01	-0.943545849	5
-0.450993167	2	1.22E+00	-0.425650648	2
0.194325842	3	1.66E-01	0.131696233	3
-0.063410506	1	4.27E-01	-0.035510987	1

-2	4	1.56E+02	-0.3211706	4
-0.284494591	2	7.67E-01	-0.333376499	2
-0.559625577	4	2.98E+00	-0.442026542	4
-0.552544804	6	5.19E+00	-0.482046644	6
-0.57059604	6	5.72E+00	-0.997574323	6
-0.958294559	7	8.12E+01	-0.146420519	7
-0.373466098	4	1.39E+00	-0.183268254	4
0.382289907	5	4.58E-02	-0.238095372	5
-0.586542779	5	4.56E+00	-0.981724663	5
-0.032631309	3	3.62E-01	-0.035495687	3
-1	5	3.47E+01	-0.170360597	5
-0.020124302	67	8.70E-03	0.626748655	67
-2	7	5.52E+03	-1	7
0	5	2.81E-01	-0.406837519	5
-0.215129135	5	7.81E-01	-0.10787906	5
-0.874343033	5	1.79E+01	-0.468614823	5
-0.167504326	12	8.18E-01	-0.268822623	12
2	18	1.46E-12	-0.502119802	18
-0.107957836	16	4.69E-01	0.261008987	16
0.571756839	1	1.11E-01	0.415295219	1
-0.760860847	21	9.81E+03	0.86414251	21
-1	1	4.94E+00	-1	1
-0.371139407	3	1.16E+00	-0.054702528	3
-1	6	2.30E+02	0.022490497	6
-0.186976277	2	5.85E-01	-0.57771374	2
-0.220582017	9	1.08E+00	-0.901799043	9
2	7	7.64E-06	-0.318491601	7
-0.006248457	14	1.59E-01	-0.734956768	14
-0.892452116	5	1.95E+01	-0.430478967	5
-0.502630204	7	5.13E+00	-0.322596076	7
-0.032757885	1	4.00E-01	-0.205193903	1
-0.172846805	2	5.62E-01	-0.03968737	2
0.036535576	6	2.15E-01	0.11149878	6
1	6	2.16E-04	-1	6
-1	19	1.29E+05	-1	19
-2	6	5.36E+04	-3	6
-2	1	6.08E+01	-0.995950049	1
-2	10	5.27E+06	-0.058492073	10
0.195211833	46	3.22E-05	2	46
-0.441220002	10	6.81E+00	1	10
0.82584066	6	3.02E-03	0.25313767	6
0.460608158	6	2.17E-02	0.552549548	6
-1	8	2.31E+02	0.170556864	8
-0.783983998	12	2.59E+02	0.301647988	12
-0.489315709	15	3.50E+01	0.329409871	15
0.597950278	4	2.61E-02	0.185999167	4
-0.024484338	5	3.16E-01	-0.073660506	5

-0.071829298	2	4.25E-01	0.017736593	2
-0.775752278	13	3.71E+02	-0.691754382	13
-0.875075572	35	6.37E+07	-0.112177102	35
0.04702145	8	1.66E-01	0.264935167	8
-0.521490039	2	1.48E+00	2	2
-1	43	1.40E+13	2	43
-2	1	1.17E+01	2	1
-0.560264058	9	1.32E+01	-0.036659881	9
-0.501966426	3	1.82E+00	-0.008554849	3
-0.362023483	3	1.12E+00	2	3
-0.558117507	4	2.96E+00	2	4
0.086890268	4	2.11E-01	0.364363707	4
-2	11	3.57E+06	-1	11
-0.579726797	8	1.12E+01	-0.906696174	8
-0.460274606	1	9.93E-01	-0.279403169	1
0.131748392	4	1.76E-01	-0.39652726	4
-0.448193194	8	4.61E+00	-1	8
-0.075883747	9	3.71E-01	-2	9
-0.05668076	7	3.44E-01	-0.650387307	7
-0.012192853	3	3.38E-01	-0.13782332	3
-0.42009983	4	1.68E+00	-0.422199585	4
0.673131906	4	1.92E-02	-0.27623476	4
0.452837798	7	1.57E-02	-0.706997066	7
-0.474701893	10	8.91E+00	-1	10
1	11	1.16E-06	-1	11
0.296332535	3	1.17E-01	-0.331493306	3
0.265719789	6	6.23E-02	-0.58674536	6
0.3237165	6	4.55E-02	-0.355483842	6
-0.101535662	16	4.35E-01	-1	16
-0.256947962	4	8.64E-01	-0.426427788	4
-1	4	2.72E+01	-0.43815339	4
-0.031110575	4	3.43E-01	-0.013359492	4
-0.549590871	3	2.14E+00	-0.104447845	3
-0.277083301	3	8.40E-01	0.106940115	3
-0.711929278	13	1.96E+02	0.368490661	13
0.317996086	17	2.18E-03	-0.009957288	17
-2	1	1.16E+01	-0.368711063	1
-0.195602121	20	1.68E+00	0.035201214	20
-2	14	3.60E+06	-2	14
-0.576739146	6	5.91E+00	-1	6
-1	8	1.06E+03	-0.602184562	8
0.071814223	5	2.00E-01	-0.061324404	5
-0.111238643	2	4.74E-01	0.092513596	2
0.182648597	6	9.76E-02	-0.826266457	6
0.156624742	4	1.59E-01	-0.404873987	4
-0.498587191	6	3.88E+00	-0.239972783	6
-1	26	2.66E+07	2	26

0.504194092	10	3.45E-03	0.412741426	10
-0.30226046	3	9.16E-01	-0.530258183	3
0.093746134	4	2.06E-01	-0.255244874	4
0.16386432	14	2.60E-02	-0.384801105	14
-0.942320254	8	1.27E+02	-2	8
1	2	2.12E-02	-1	2
0.92926506	6	1.73E-03	-1	6
-0.035797859	8	2.89E-01	-0.73063161	8
-0.029248015	1	3.97E-01	-0.199283995	1
-0.029248015	1	3.97E-01	-0.199283995	1
0.209186271	6	8.46E-02	0.06962772	6
0.169555687	19	9.84E-03	-0.343016867	19
0.055967038	6	1.94E-01	-0.311940313	6
-0.602163004	16	1.73E+02	-0.635949874	16
-0.010613289	3	3.36E-01	-0.083301371	3
-0.995153173	5	3.17E+01	-0.447192306	5
-0.803777242	2	3.25E+00	-2	2
-0.420060055	3	1.37E+00	-1	3
0.75721273	8	1.41E-03	-0.759517948	8
0.832527277	7	1.57E-03	-0.194924127	7
-0.875076888	3	6.56E+00	-0.902419657	3
-2	4	1.31E+03	-2	4
-1	5	1.24E+02	-2	5
-2	3	2.64E+02	-2	3
-0.566364174	4	3.07E+00	-0.866942153	4
-0.100330975	3	4.57E-01	0.091624287	3
0.38693361	13	3.34E-03	0.480678368	13
-2	5	6.61E+03	-2	5
-2	1	2.17E+01	-1	1
-2	6	1.60E+03	-0.955055177	6
0	1	3.73E-01	-0.3780717	1
-0.093088945	13	4.05E-01	0.760379851	13
0.808299771	14	2.72E-05	0.056464657	14
-0.170639891	6	6.59E-01	-0.838016083	6
-0.570996354	4	3.12E+00	0.836052128	4
-0.132956828	20	6.76E-01	2	20
-2	1	1.19E+01	2	1
3	6	4.13E-08	-0.427702545	6
1	6	1.31E-04	-0.43666982	6
-0.697035512	7	1.67E+01	-1	7
-0.530593617	6	4.61E+00	0.329437839	6
-0.435846169	4	1.80E+00	0.197037082	4
-0.064355412	7	3.60E-01	-0.263051001	7
-0.355627961	4	1.29E+00	-0.239132893	4
-0.018898307	2	3.66E-01	0	2
-0.62954973	27	1.03E+04	-0.411576028	27
-1	29	5.04E+08	-1	29

-0.88210058	4	1.12E+01	-0.504564644	4
0.146643993	10	6.08E-02	-0.038192593	10
0.255072546	10	2.55E-02	0.089912191	10
-0.699567091	3	3.59E+00	-0.04561397	3
-0.046229396	3	3.80E-01	0.124924811	3
-0.872405607	25	3.98E+05	-0.118080759	25
-0.542245124	8	8.67E+00	0.341806602	8
0.673654644	7	4.12E-03	-0.596119826	7
-0.137154582	2	5.09E-01	0.385934109	2
0.834622674	11	1.31E-04	0.192529224	11
-0.74111377	14	3.98E+02	-0.421737265	14
2	14	2.03E-10	1	14
0.712756337	9	1.11E-03	0.234343984	9
-0.122660388	6	5.08E-01	-0.335295802	6
-0.06083761	11	3.12E-01	-0.477194239	11
0.648136253	22	2.84E-06	0.28966907	22
-0.653296681	4	4.38E+00	-0.153671163	4
1	7	1.74E-04	0.408719272	7
0	1	3.73E-01	0	1
-0.341698835	1	7.72E-01	-0.385410781	1
-0.320143614	2	8.47E-01	-0.496761622	2
-0.448170998	6	2.95E+00	-0.514930315	6
-0.877776731	21	5.82E+04	-0.49574264	21
-0.357357889	10	3.47E+00	-0.334978522	10
-0.308915422	13	3.50E+00	-1	13
0.847638656	16	5.11E-06	-1	16
0.250033175	5	8.58E-02	-0.828227159	5
-0.828537971	16	2.59E+03	-0.247375625	16
0.132646355	3	2.05E-01	-0.598784028	3
-0.802378064	8	4.98E+01	-0.848093763	8
-0.240704881	3	7.41E-01	-0.235019767	3
-0.296971531	6	1.30E+00	-0.694278796	6
-0.295652416	13	3.06E+00	-0.245507634	13
-0.798184679	13	4.64E+02	-0.503345828	13
-0.23137975	3	7.18E-01	-0.273639191	3
0.588441763	9	2.77E-03	-0.404270723	9
1	19	7.69E-10	1	19
-0.105375447	10	4.60E-01	-0.262658317	10
-0.034457057	8	2.87E-01	-0.457623734	8
0.214838219	15	1.22E-02	0.322422281	15
-0.808613182	27	3.19E+05	-0.520237619	27
-2	17	2.62E+07	-2	17
-1	12	2.31E+03	-1	12
-0.199131035	6	7.68E-01	-0.35895453	6
0.020123069	41	1.24E-02	0.553623024	41
0.260279097	4	1.04E-01	0.044878998	4
0.103718893	1	2.99E-01	0.012753188	1

1	15	1.41E-07	-0.461748982	15
-0.795582482	15	1.11E+03	-0.516120088	15
1	6	5.92E-04	-0.350399338	6
0.117529467	12	5.72E-02	-0.70778467	12
-0.649902607	7	1.25E+01	-0.287845986	7
-1	5	3.39E+01	-0.289455805	5
-1	6	2.85E+02	-0.789394095	6
-2	4	6.36E+03	-2	4
-0.781035234	4	7.38E+00	-0.589235719	4
-2	4	7.60E+02	-0.877036833	4
-0.826132159	12	3.83E+02	-0.295515258	12
-0.737169624	20	4.53E+03	0.112270576	20
-1	7	1.10E+02	-0.341241083	7
-0.367562154	6	1.91E+00	-0.302362584	6
-0.068644751	3	4.10E-01	-0.042106348	3
0.008056018	6	2.51E-01	-0.072782586	6
-0.887471284	3	6.85E+00	-0.253272284	3
-0.034746971	10	2.61E-01	-0.25693029	10
-2	8	2.64E+04	-1	8
-0.273267365	4	9.24E-01	-0.670028729	4
-0.238120846	9	1.23E+00	-0.144740071	9
-0.593049634	3	2.49E+00	-0.15999049	3
-0.745162175	8	3.39E+01	-0.222485529	8
-0.568352226	7	7.64E+00	-0.506689058	7
-0.186635511	10	8.83E-01	-0.944455981	10
-0.141856201	43	1.28E+00	-0.246511166	43
0.096716563	15	4.64E-02	0.253923998	15
0.455227374	8	1.07E-02	0.003686822	8
-0.330581032	2	8.72E-01	-0.118743108	2
-0.020725082	3	3.48E-01	-0.011572051	3
0.587784949	13	4.49E-04	-0.876786999	13
-0.01236467	6	2.80E-01	-0.877638477	6
-0.16873141	5	6.27E-01	-2	5
-0.903105049	8	9.79E+01	-0.34707478	8
-0.428788392	6	2.66E+00	-0.480857899	6
0.112766099	6	1.42E-01	-0.323781176	6
-0.122929854	10	5.29E-01	-0.504424098	10
-0.581155244	12	3.89E+01	-1	12
-0.967324908	10	4.65E+02	-0.575249574	10
-0.758561658	6	1.58E+01	-0.525952595	6
-0.136958092	28	8.34E-01	-0.6441241	28
0.128397064	4	1.78E-01	-0.172326883	4
-0.820846793	2	3.41E+00	-1	2
-0.724829307	10	6.63E+01	-0.28407298	10
-1	12	1.95E+05	-1	12
-0.349468857	7	2.03E+00	-0.257235339	7
-1	7	7.79E+02	-0.82394548	7

0.120271744	12	5.57E-02	-0.626263595	12
-2	17	2.29E+07	-2	17
-0.586453886	7	8.53E+00	-0.816158016	7
-0.043241567	18	1.99E-01	1	18
-0.01974385	1	3.89E-01	0.053342686	1
-0.044500646	2	3.94E-01	-0.167095247	2
-0.66860484	14	1.84E+02	0.470766323	14
-0.932864625	67	8.52E+15	-0.568740455	67
-1	20	4.52E+05	-2	20
-2	10	1.16E+05	-2	10
-0.860534082	11	3.23E+02	-0.893285929	11
-1	6	4.40E+02	-1	6
-0.126220987	6	5.18E-01	-0.647568054	6
-0.721015007	3	3.86E+00	-0.81502516	3
-0.783758331	5	1.16E+01	-0.966365534	5
0.773909463	6	4.00E-03	-2	6
0.313393331	8	2.77E-02	-1	8
-2	11	1.29E+06	-1	11
-0.546381253	13	3.75E+01	0.105896207	13
-0.135126298	4	5.25E-01	-0.093628901	4
-0.444512775	13	1.36E+01	-0.530306026	13
-0.042447757	7	3.16E-01	0.020923184	7
-0.455269446	5	2.44E+00	0.067307197	5
1	5	1.10E-03	0.262816971	5
-0.398619112	16	1.52E+01	-0.245967857	16
0.046847903	4	2.49E-01	-0.48091052	4
-1	17	1.66E+06	-2	17
-0.898292789	3	7.11E+00	-0.509141288	3
-0.784872814	4	7.50E+00	-0.576400153	4
-0.299688496	4	1.03E+00	-0.220936659	4
-0.471133686	2	1.29E+00	-0.505048436	2
-0.452524649	3	1.54E+00	-0.011151868	3
-0.141621039	13	6.57E-01	-0.577788815	13
0.322899292	9	1.96E-02	-0.077543665	9
-0.284706048	15	3.46E+00	0.286692069	15
-1	1	5.67E+00	-0.900901214	1
-0.367170123	6	1.91E+00	-0.657456016	6
-1	15	3.98E+04	-0.237932495	15
0.035287033	47	4.60E-03	2	47
-0.090700853	17	3.78E-01	0.543709865	17
-0.010137983	39	3.33E-02	2	39
-0.879389166	9	1.38E+02	-0.289423406	9
-0.714769281	7	1.86E+01	-0.167665182	7
-0.801663495	3	5.10E+00	-0.053114558	3
-0.945456074	6	4.34E+01	-0.218920359	6
0.362940503	14	3.12E-03	-0.542480915	14
0.438874832	10	5.83E-03	0.040269873	10

0.244465267	5	8.81E-02	-0.146057999	5
-0.035066824	4	3.48E-01	-0.06775639	4
0.985871942	7	6.21E-04	0.543601826	7
2	3	6.00E-04	1	3
-0.136596358	8	5.69E-01	-0.765088209	8
-0.012896673	4	3.18E-01	-2	4
-0.194249615	4	6.68E-01	-0.264490664	4
-1	12	1.37E+04	2	12
-0.104284709	10	4.56E-01	1	10
-2	3	6.67E+02	-1	3
-0.116942147	6	4.93E-01	-0.237933467	6
-0.255416623	3	7.80E-01	-0.408752939	3
-0.327391535	8	2.05E+00	-0.846234082	8
-0.231172647	4	7.77E-01	-0.949326897	4
-0.569006617	5	4.19E+00	-0.969308733	5
0.377670765	3	8.84E-02	-0.093282994	3
0.567530027	9	3.23E-03	-0.510603447	9
2	6	7.84E-05	-1	6
1	5	1.46E-03	0.345449997	5
-0.815020413	4	8.48E+00	-0.081254127	4
-0.347380049	3	1.07E+00	-0.17457109	3
-2	10	5.69E+04	-0.775492549	10
-0.407930787	7	2.89E+00	-0.046643268	7
-0.458210007	3	1.57E+00	0.02907038	3
-0.020796293	2	3.68E-01	0.027633396	2
0.60745774	4	2.51E-02	0.347311414	4
-0.261353929	5	9.73E-01	0.8363159	5
0.203264388	10	3.86E-02	1	10
-1	22	8.98E+05	-0.83206857	22
1	8	1.50E-05	0.611315801	8
-0.124358659	6	5.13E-01	-0.112060874	6
-0.854729959	50	5.98E+10	-1	50
-0.828055145	11	2.44E+02	-0.563226615	11
-0.313249559	2	8.31E-01	-0.240107539	2
-0.06061565	3	3.99E-01	-0.117270143	3
-0.507801568	4	2.41E+00	-0.189888811	4
-0.240697074	6	9.62E-01	-0.310156385	6
-0.949634543	8	1.34E+02	2	8
-0.096123298	1	4.58E-01	0.159933781	1
-2	12	5.87E+06	0.658817439	12
-0.338831619	11	3.48E+00	-0.396642231	11
0.218729614	1	2.34E-01	-0.096270222	1
-0.12225493	4	4.98E-01	-0.321800993	4
-1	2	7.53E+00	-0.922491073	2
-1	5	5.53E+01	-0.959299072	5
-0.204031851	4	6.96E-01	-1	4
2	6	5.53E-06	-1	6

-0.467328559	5	2.59E+00	-0.516114892	5
0	2	3.48E-01	-0.276978835	2
-0.289583079	2	7.78E-01	-0.143999165	2
-0.030111477	1	3.98E-01	-0.012601249	1
-0.238815487	2	6.76E-01	-2	2
-0.932608542	3	8.00E+00	-0.58204916	3
-0.085141487	1	4.47E-01	-0.094141433	1
-0.858118005	3	6.19E+00	-1	3
0.732940465	3	2.61E-02	-1	3
-0.201136942	14	1.27E+00	0.070944097	14
-2	10	1.34E+07	0.720027277	10
-2	15	2.44E+10	-0.620011751	15
-0.796464415	40	8.93E+07	-0.800572899	40
-0.35883807	9	2.98E+00	-0.5216074	9
-3	8	9.81E+06	-2	8
-0.531930825	22	3.96E+02	-0.375513785	22
-0.64304279	39	8.98E+05	-0.89511836	39
-0.109563764	6	4.74E-01	-0.158136981	6
0.219822147	22	2.57E-03	0.233980382	22
0.853971791	4	9.15E-03	0.356046079	4
0.223939019	7	6.28E-02	-0.07533872	7
0.128282409	8	9.61E-02	0.209375484	8
-0.554226722	2	1.63E+00	-0.556444908	2
0.47407247	7	1.38E-02	-0.619974862	7
0.70768414	13	1.35E-04	-0.422398267	13
-0.687279712	18	1.02E+03	-0.468900724	18
-0.599548842	4	3.51E+00	-0.066688484	4
-0.927918097	9	1.98E+02	-0.535860746	9
0.131501066	1	2.82E-01	-0.29927787	1
-2	3	9.44E+01	-0.321008221	3
-0.913237394	6	3.64E+01	-0.764273676	6
-0.873652151	8	8.03E+01	-1	8
-0.989471037	9	3.11E+02	-1	9
-0.00025684	3	3.24E-01	-0.000107649	3
-0.001159555	3	3.25E-01	-0.08065329	3
0.026786382	6	2.27E-01	-0.263102914	6
-0.005054622	6	2.69E-01	2	6
1	4	3.89E-03	0.493837984	4
-0.436654887	3	1.45E+00	-0.337661543	3
-2	12	3.24E+05	-0.787184682	12
0	5	2.81E-01	0.073492965	5
-1	5	7.11E+01	-0.408942811	5
-0.418775955	47	1.07E+04	-0.806918513	47
-0.349229505	7	2.03E+00	-1	7
-0.715865151	9	4.15E+01	-0.893534208	9
-0.936229558	16	9.40E+03	-1	16
0.442662775	12	2.75E-03	0.546153215	12

0.185006039	9	5.42E-02	-0.164933919	9
-0.123372737	11	5.37E-01	-0.702370835	11
0.077263057	5	1.95E-01	-0.33429509	5
0.130205662	12	5.08E-02	-0.098102354	12
-1	5	3.44E+02	0.778454963	5
-1	15	6.08E+04	-0.008170466	15
0	1	3.73E-01	0.004990599	1
-0.410651217	5	1.98E+00	-0.3182134	5
0	2	3.48E-01	-0.051650282	2
-0.420114341	11	7.05E+00	2	11
-0.077404177	1	4.40E-01	0.063778565	1
-0.743136598	4	6.32E+00	-0.331476047	4
0.53613261	5	2.20E-02	-0.692715609	5
-0.580058198	6	6.02E+00	-0.098679091	6
-0.280249319	4	9.50E-01	0	4
-0.55894898	4	2.97E+00	-0.176742946	4
-0.770267104	15	8.37E+02	-0.654776795	15
-0.336583341	14	5.35E+00	0.893173527	14
0.100263598	8	1.16E-01	0.01133483	8
0	1	3.73E-01	-0.008245269	1
-0.012857584	4	3.18E-01	-0.19988768	4
-0.307101903	7	1.57E+00	-0.08094663	7
-0.46942979	4	2.06E+00	-0.32690628	4
0.040754977	2	3.10E-01	-0.008752454	2
-0.168693573	4	6.02E-01	-0.240610073	4
-0.653060193	13	1.09E+02	-1	13
1	5	4.53E-04	0.367040777	5
1	11	3.62E-06	0.248253133	11
-0.14597151	13	6.86E-01	-0.795706291	13
1	4	4.21E-03	-0.774468007	4
0.566449366	10	2.09E-03	0.35686674	10
-0.963454175	8	1.47E+02	-0.181949522	8
0.317010599	7	3.57E-02	-0.400300504	7
-0.47425067	8	5.49E+00	0.171598482	8
-1	4	5.46E+01	-0.284736036	4
-0.825522515	13	6.10E+02	-0.360166699	13
-0.783282828	21	1.38E+04	1	21
-0.23225251	7	9.97E-01	0.305824037	7
-1	5	1.13E+02	-0.660150429	5
-1	6	7.78E+02	-0.497032121	6
-0.33924295	4	1.21E+00	0.388386988	4
-0.401513511	5	1.89E+00	1	5
-2	4	4.83E+02	-0.521334029	4
-2	2	5.18E+01	-0.623723919	2
-2	6	1.75E+03	-2	6
-1	3	4.88E+01	-1	3
-0.49880659	6	3.88E+00	-0.898396605	6

-0.71625619	9	4.16E+01	-2	9
-0.993705993	5	3.15E+01	-0.74842414	5
0.315977366	15	3.89E-03	-1	15
0.389589432	5	4.42E-02	-0.982435744	5
2	2	2.73E-03	-0.321292564	2
0.022407586	12	1.39E-01	-0.984062412	12
-0.598115985	9	1.74E+01	-0.224744403	9
-0.997591617	5	3.21E+01	-0.646891093	5
-0.56205786	8	9.91E+00	0.645598643	8
0.350308917	7	2.92E-02	3	7
-0.789202754	7	2.91E+01	-0.153890922	7
-0.041926676	3	3.74E-01	-0.072234601	3
0.100742121	6	1.52E-01	2	6
-0.266971587	16	3.14E+00	-0.997109155	16
0.805520892	11	1.69E-04	-0.296540023	11
-0.152477012	8	6.33E-01	-1	8
-0.109083953	6	4.72E-01	-0.741709914	6
-0.655681799	9	2.66E+01	-0.136922447	9
-0.577166243	3	2.36E+00	-0.075550144	3
-0.545291916	1	1.19E+00	-0.450044576	1
-0.68503618	2	2.34E+00	-0.748818841	2
-0.004434952	4	3.07E-01	0.001538888	4
-2	7	3.83E+04	-1	7
-1	5	7.40E+01	-0.940438138	5
-0.388975403	3	1.23E+00	-0.055058272	3
-3	4	1.32E+04	-2	4
-2	14	2.62E+09	-1	14
0.481123886	11	2.82E-03	-0.841482216	11
-0.280961408	5	1.07E+00	-0.469445831	5
-2	11	2.96E+05	-2	11
-0.838277174	16	2.91E+03	-0.924168013	16
-2	5	1.58E+04	-2	5
-1	8	3.89E+03	-2	8
-1	5	3.43E+01	-2	5
-0.085870046	7	4.11E-01	-1	7
-0.962867815	10	4.48E+02	-2	10
-1	5	1.64E+02	-0.925017312	5
-0.966035741	11	8.07E+02	-0.025154664	11
-1	43	2.14E+12	-0.351615221	43
-0.022989625	5	3.14E-01	0.24190232	5
-0.375600471	3	1.18E+00	-0.098132231	3
-2	5	2.42E+03	-0.621828571	5
-0.202527966	1	5.74E-01	-0.03978603	1
-0.132806845	7	5.46E-01	-0.206336119	7
-0.957201507	5	2.65E+01	-1	5
0.016332605	11	1.60E-01	-0.412726816	11
-0.094079035	6	4.36E-01	-0.144178851	6

0.344088041	3	9.92E-02	-0.079204771	3
-0.033426555	30	9.71E-02	-1	30
0.337270418	6	4.23E-02	-2	6
1	10	9.97E-06	-0.977473878	10
-0.248703927	3	7.62E-01	0	3
-0.009908429	3	3.35E-01	-0.460858923	3
-0.948021644	13	2.08E+03	-0.714248714	13
-0.556008466	4	2.94E+00	-0.792068565	4
-0.374387685	5	1.66E+00	-0.656912113	5
-0.992477376	4	1.75E+01	-0.808634729	4
-0.374667234	4	1.40E+00	-0.807025098	4
-1	8	6.13E+02	-3	8
-0.162250287	4	5.86E-01	-0.693904921	4
-0.976286947	9	2.83E+02	-1	9
-0.211253273	8	9.39E-01	-1	8
-0.153429061	3	5.49E-01	2	3
-0.285837527	3	8.65E-01	1	3
2	13	3.32E-10	-0.489486777	13
-0.026366779	26	1.04E-01	2	26
-0.506546234	5	3.12E+00	2	5
0.494132658	17	2.36E-04	0.31787231	17
-0.413980479	2	1.10E+00	-0.372865304	2
-0.449775443	10	7.30E+00	-0.220220953	10
-0.452015547	6	3.01E+00	-0.487284789	6
-0.651320085	14	1.53E+02	-1	14
-1	34	1.87E+12	-0.442399226	34
-0.730316447	7	2.04E+01	-0.412916069	7
-0.247086186	7	1.09E+00	-0.191235472	7
0.020501728	8	1.98E-01	0.598798214	8
-2	19	1.84E+10	-0.848476537	19
0.39229319	26	4.46E-05	-0.50440026	26
-0.453524195	20	7.24E+01	-0.365813207	20
-0.769550071	7	2.59E+01	-0.627028056	7
0.041938576	9	1.56E-01	0.168926861	9
-0.16752293	5	6.23E-01	-0.136851042	5
-0.282756106	59	5.23E+02	-0.59039475	59
0.854663949	4	9.13E-03	-0.322026448	4
-0.87971669	7	5.04E+01	-1	7
-0.62304132	6	7.60E+00	-0.330489809	6
-0.022986965	2	3.71E-01	-0.100463514	2
-0.049280332	5	3.55E-01	0.031733682	5
0.090791108	11	8.36E-02	0.577468954	11
0.961883264	10	8.76E-05	0.686924862	10
0.035256706	14	1.02E-01	-0.858444069	14
-0.593666585	6	6.48E+00	-0.513796946	6
0.370733425	20	4.37E-04	-0.433294363	20
1	5	1.00E-03	0.314771116	5

0.08857431	12	7.49E-02	0.032008551	12
-0.037247907	2	3.86E-01	0.01531786	2
-0.74141483	36	3.69E+06	-0.650439034	36
0.049135537	23	3.49E-02	-0.168081698	23
1	18	4.04E-09	-0.286966727	18
0.480054126	4	4.23E-02	-0.696069755	4
-0.615483728	5	5.23E+00	-0.429106341	5
-0.402540576	14	1.08E+01	-0.675199159	14
-0.374740234	9	3.35E+00	-0.666959776	9
-0.755144281	44	1.55E+08	-1	44
0.312874908	7	3.66E-02	-0.90949385	7
-1	10	7.81E+02	-2	10
-2	5	3.98E+02	-2	5
-0.864667322	23	1.29E+05	-0.216609907	23
0.355213117	8	2.09E-02	1	8
-0.861464705	6	2.76E+01	-0.771513426	6
-0.202510513	6	7.83E-01	-0.143265555	6
-0.645412968	11	4.99E+01	-0.529543107	11
-0.710428753	9	3.98E+01	-0.531440597	9
-2	8	3.34E+05	-2	8
-0.826834256	10	1.50E+02	-1	10
-0.88380753	5	1.87E+01	-0.043746616	5
-0.687772603	4	5.04E+00	0.094492715	4
0.621391048	82	1.51E-18	-0.039977752	82
-0.541944423	25	1.09E+03	-0.975292506	25
-1	12	2.62E+04	-1	12
-0.0585807	26	1.88E-01	0.440578755	26
1	8	6.02E-05	0.910252687	8
0.002010954	5	2.78E-01	-0.208890951	5
-0.029535566	4	3.41E-01	-0.076189722	4
0.810233685	3	2.00E-02	-0.238228594	3
-0.342567745	9	2.65E+00	-0.546238435	9
-0.661177424	14	1.70E+02	0.077203463	14
-0.698915967	7	1.69E+01	-0.629548682	7
1	9	9.46E-05	-1	9
1	5	1.61E-03	-0.358821439	5
-0.570733827	6	5.73E+00	0.665632273	6
-0.217655384	10	1.13E+00	0.242929433	10
0.296080608	4	8.98E-02	0.573510694	4
-0.016779822	18	1.40E-01	1	18
-2	7	1.47E+04	-1	7
-0.607709922	19	4.94E+02	0.014826938	19
-0.801528104	3	5.10E+00	-0.702370106	3
2	9	1.23E-07	0.400419468	9
0.459474968	8	1.04E-02	-0.419992346	8
0.329506506	11	1.05E-02	0.055354786	11
-0.461215292	57	4.25E+05	2	57

0.042967156	14	9.41E-02	2	14
-0.551154486	29	4.10E+03	1	29
-0.682586649	17	6.60E+02	-0.320297253	17
-0.126492809	17	5.93E-01	-0.314506019	17
-0.134814865	12	6.03E-01	-0.119434801	12
-0.113498606	8	4.87E-01	-0.660636112	8
-0.110736488	15	4.84E-01	-0.387990762	15
0.045133819	10	1.37E-01	0.009867923	10
-0.112363955	3	4.77E-01	0.100661825	3
-0.524595835	12	2.30E+01	-1	12
-0.004200439	3	3.29E-01	-0.015732004	3
-0.097301692	6	4.43E-01	-0.289218731	6
-0.511616106	4	2.45E+00	-0.285486106	4
-0.333960154	7	1.85E+00	0.027282469	7
-0.0399155	5	3.40E-01	-0.155656427	5
-1	9	4.88E+03	-1	9
-0.128036636	3	5.03E-01	-0.171997873	3
-0.180096645	7	7.27E-01	-0.468826168	7
-0.78951414	12	2.72E+02	-1	12
-1	5	3.88E+01	0.037834633	5
-0.21872214	7	9.19E-01	-0.07143618	7
-0.612426327	9	1.93E+01	0.068402122	9
0.850427225	9	4.02E-04	-2	9
0.020330739	5	2.55E-01	0.106851836	5
-0.675014811	5	6.94E+00	1	5
1	8	2.58E-04	-0.94850385	8
0.000188604	2	3.48E-01	-0.210213902	2
-0.48928102	9	7.80E+00	-0.895595084	9
-0.537994104	5	3.62E+00	-0.416301587	5
0.047650721	13	9.91E-02	-0.752586776	13
-1	18	9.14E+04	-0.917640827	18
-0.358906516	12	4.89E+00	-0.790967282	12
-0.52262868	22	3.41E+02	-0.721208534	22
-2	5	3.74E+03	-1	5
-2	2	3.31E+01	-0.022949998	2
-0.894146978	24	3.51E+05	-0.203044406	24
-0.833527188	10	1.59E+02	-0.834489534	10
-0.832549317	7	3.79E+01	-0.280901521	7
-0.889925653	6	3.21E+01	-0.520477456	6
-0.544766275	9	1.17E+01	-0.811171526	9
-1	8	2.77E+02	-0.712284139	8
-0.042175107	9	2.89E-01	-0.143460185	9
-0.855330712	5	1.63E+01	-1	5
-3	3	4.64E+03	-2	3
0.167707198	3	1.82E-01	0.484057396	3
-0.137300302	9	5.83E-01	0.414862726	9
-0.735167543	43	5.61E+07	-0.542370331	43

-0.082343224	4	4.23E-01	-0.304776359	4
-0.936102104	5	2.40E+01	-0.128464135	5
-1	42	3.86E+11	0.359123196	42
-2	49	4.95E+20	-2	49
-2	2	4.80E+01	-0.881612901	2
-0.442547358	13	1.33E+01	-0.499008681	13
-0.483586786	2	1.34E+00	-0.472788733	2
-0.589409483	18	2.79E+02	-0.808812724	18
-2	7	3.74E+04	-2	7
-2	8	3.18E+04	-2	8
-0.804719835	4	8.13E+00	-0.953800736	4
-1	7	1.61E+02	-0.590485565	7
-0.861828836	6	2.76E+01	-0.717385035	6
-0.934913466	9	2.08E+02	-1	9
-0.745623312	6	1.47E+01	-1	6
-2	14	5.99E+06	-1	14
-1	6	2.13E+02	-0.714253134	6
-0.985177033	16	1.69E+04	-0.90345713	16
-0.437103932	4	1.81E+00	2	4
-0.358041112	4	1.31E+00	0.965707756	4
-0.159592843	12	7.60E-01	0.161476612	12
0.373571543	9	1.35E-02	-0.200824765	9
-1	8	3.80E+02	-0.999809061	8
0.828905071	20	5.48E-07	1	20
0.510220406	1	1.26E-01	2	1
-0.031074559	2	3.79E-01	0.382854896	2
0.017858787	6	2.38E-01	2	6
0.126988948	7	1.13E-01	0.050316554	7
-0.245656061	3	7.54E-01	0.207402601	3
-0.579761658	5	4.41E+00	0.566800098	5
0.082302122	36	3.98E-03	1	36
0.15976271	5	1.32E-01	-0.182423148	5
0.509926805	4	3.74E-02	-0.338688546	4
0.216013381	9	4.31E-02	-0.838350836	9
-0.886944716	4	1.14E+01	0.251273839	4
-0.77206861	18	3.15E+03	-0.758401016	18
-0.874390175	3	6.55E+00	-0.767894346	3
-1	26	1.02E+08	-1	26
-2	5	9.93E+03	-2	5
-0.285534566	4	9.71E-01	-0.603741229	4
-1	4	3.52E+01	-0.617723345	4
-0.671358548	3	3.26E+00	-0.894963627	3
-0.312278172	2	8.29E-01	-0.103239189	2
-0.724925533	23	1.27E+04	-0.460153039	23
0.944131839	3	1.26E-02	-1	3
0.090045074	5	1.83E-01	-0.3377333	5
-0.126792004	1	4.89E-01	-0.187275749	1

-0.320110297	5	1.29E+00	0.126397117	5
0.156262809	5	1.34E-01	-0.251253484	5
0.2265253	5	9.59E-02	-0.786554475	5
-0.445177211	6	2.90E+00	-1	6
0.410646493	7	2.03E-02	-1	7
-0.271571246	4	9.17E-01	-1	4
-1	3	3.49E+01	-3	3
-1	6	1.21E+02	-0.881056905	6
2	5	2.07E-04	-1	5
-0.449322164	6	2.97E+00	-0.707957052	6
-0.549057088	4	2.86E+00	-0.713429553	4
-0.80678185	7	3.24E+01	-0.653284356	7
-0.628647289	9	2.18E+01	-0.884757853	9
-0.414628991	3	1.35E+00	-0.364543954	3
-1	5	3.97E+01	-0.399303798	5
-0.316053647	14	4.30E+00	-1	14
-0.60194588	9	1.79E+01	-1	9
-1	14	5.95E+05	-1	14
-1	7	1.58E+02	-1	7
-1	4	2.98E+01	-0.144461323	4
-0.148656843	26	9.97E-01	0.887225453	26
-0.012897485	31	5.91E-02	2	31
-0.088817557	21	3.51E-01	0.989392872	21
-0.987228044	29	3.10E+07	-2	29
-0.838171083	7	3.92E+01	-2	7
-1	21	1.70E+06	-0.619985353	21
0.232654606	5	9.31E-02	-0.403162658	5
-0.776412421	20	8.02E+03	0.270387051	20
0.411553183	24	6.17E-05	0.731921131	24
-0.295757002	7	1.47E+00	0.443246101	7
-0.182221125	3	6.06E-01	-0.305155259	3
-0.535111029	4	2.70E+00	-0.380142413	4
0.248989857	8	4.27E-02	-1	8
-0.700014384	9	3.69E+01	-1	9
-0.564149145	5	4.10E+00	-0.31163494	5
-1	5	6.34E+01	-0.12586466	5
-2	5	9.02E+03	2	5
-3	4	8.01E+04	-1	4
-0.658160241	4	4.46E+00	0.128665402	4
-0.47788878	8	5.63E+00	-0.01674641	8
-0.157750964	6	6.14E-01	-0.167897861	6
-0.356319338	5	1.53E+00	-0.071900917	5
-0.053542032	2	4.04E-01	-0.015166525	2
-0.453944088	22	1.15E+02	-0.14399315	22
-0.829186033	6	2.31E+01	-0.856507016	6
-0.063130009	6	3.68E-01	-0.666773795	6
-0.614100699	5	5.19E+00	-0.063508255	5

0.758955155	23	2.76E-07	0.238856168	23
1	15	5.83E-07	1	15
-0.728586511	3	3.97E+00	0.589402781	3
0.441989823	24	3.65E-05	0.346016778	24
0.106484807	2	2.59E-01	-0.018720572	2
0.840624274	3	1.80E-02	-0.944709427	3
-1	5	1.02E+02	-2	5
-0.758978567	61	2.46E+11	-1	61
-0.904128528	4	1.22E+01	-1	4
-2	3	5.40E+02	-1	3
-1	4	2.19E+01	-1	4
-0.062447084	5	3.78E-01	-0.05396255	5
0.293809465	3	1.18E-01	-0.079868228	3
-0.203841605	5	7.40E-01	-0.332924075	5
-0.448961906	3	1.52E+00	-0.211443466	3
-0.298346094	3	9.03E-01	-0.459311039	3
-0.084163703	32	2.75E-01	-0.174502314	32
-1	6	2.11E+02	-0.05919678	6
-0.262500983	7	1.20E+00	0.313029351	7
-0.648981894	4	4.30E+00	-0.070868396	4
-0.844284672	3	5.90E+00	-1	3
-2	7	1.11E+04	-2	7
-0.01719834	2	3.65E-01	-0.098963595	2
-0.359552343	41	5.87E+02	-0.770101109	41
-0.254343902	5	9.41E-01	-0.138003503	5
-0.148248142	2	5.25E-01	-0.036255239	2
-0.17167682	26	1.53E+00	1	26
-0.263164604	15	2.71E+00	0.413941202	15
-0.731633284	7	2.06E+01	-0.423105952	7
0	1	3.73E-01	-0.010839279	1
-0.19273544	4	6.64E-01	-0.07845428	4
-0.8412577	8	6.46E+01	-0.043273356	8
-0.314731754	4	1.09E+00	-0.067663601	4
-0.30294898	7	1.53E+00	-0.442344266	7
-0.500024115	5	3.02E+00	-0.40367558	5
0.017595915	1	3.59E-01	0.011914062	1
0.017595915	1	3.59E-01	0.011914062	1
0.006898553	3	3.16E-01	0.006158941	3
0.016756893	5	2.60E-01	-0.162233885	5
0.579169981	8	4.65E-03	-2	8
-1	8	4.13E+03	-2	8
-0.619661071	13	7.80E+01	-0.900864619	13
0.361814788	3	9.34E-02	-0.227026592	3
0.21456271	3	1.55E-01	-0.046581625	3
0.102762712	7	1.31E-01	0.159118079	7
-0.32753069	5	1.33E+00	-0.123849733	5
-0.630861684	4	3.99E+00	-0.009066598	4

-0.116022644	2	4.80E-01	-0.186476301	2
-0.808371027	9	8.20E+01	-0.340803176	9
2	11	4.32E-08	-0.536063662	11
0.887520316	4	7.98E-03	-0.297376791	4
0.061244007	7	1.68E-01	-0.131149812	7
0.393544392	30	1.17E-05	0.478176688	30
-1	6	2.15E+02	-2	6
-0.72551173	32	4.91E+05	-0.309080453	32
-1	3	2.88E+01	-0.730877129	3
-0.436601773	11	8.14E+00	-0.543372566	11
-1	5	3.00E+02	-1	5
-0.027637302	5	3.21E-01	-0.171332317	5
1	9	6.33E-05	-0.540882213	9
0.677353347	9	1.44E-03	-0.92664286	9
0.852275147	13	3.19E-05	-0.592126244	13
-0.818960914	9	8.86E+01	-1	9
-0.219164814	4	7.40E-01	-0.003730484	4
0.004602657	4	2.96E-01	-0.301927042	4
0.447153203	5	3.36E-02	-0.017994572	5
-0.014209003	1	3.85E-01	-0.014612607	1
-0.441363704	2	1.19E+00	-0.035751477	2
-0.375851824	9	3.38E+00	2	9
-0.621587173	16	2.18E+02	-0.180913446	16
0.417842661	15	1.23E-03	-1	15
-0.932716327	9	2.05E+02	-0.57282323	9
0.760012582	12	1.42E-04	-0.518984093	12
1	13	1.14E-06	-1	13
-0.145387032	12	6.66E-01	-1	12
0.119440866	6	1.37E-01	-0.554630672	6
-1	15	1.20E+04	-0.577025063	15
-0.35319245	7	2.07E+00	-0.188196145	7
-0.371490925	5	1.64E+00	-0.361944557	5
-0.63667817	13	9.25E+01	-1	13
-1	16	2.94E+04	-1	16
-1	12	2.45E+03	-1	12
0.205452991	11	3.09E-02	1	11
-1	3	1.02E+01	-0.8756362	3
-0.445211766	5	2.33E+00	-1	5
-0.00075918	3	3.25E-01	-0.070206563	3
1	30	5.74E-13	-0.567449675	30
0.115485586	6	1.40E-01	-0.705202133	6
0.294171249	5	6.95E-02	-0.651345424	5
-0.503516811	12	1.89E+01	-0.513594354	12
-0.050633324	8	3.19E-01	-0.204630598	8
-0.428608336	7	3.28E+00	-0.538019077	7
0.13354877	5	1.49E-01	-0.093330277	5
-0.004647109	4	3.08E-01	-0.00194311	4

0.374944861	6	3.45E-02	-0.158381523	6
-0.281289372	6	1.20E+00	-0.425617885	6
-0.243917314	7	1.07E+00	-0.363348422	7
0.319219955	23	4.00E-04	0.09191126	23
-0.280568175	2	7.59E-01	0.006467922	2
-0.301413195	3	9.13E-01	-0.352054006	3
-0.309699004	2	8.23E-01	-0.121971007	2
0.217192852	5	1.00E-01	0.383528349	5
-0.243263513	18	2.83E+00	-0.021270276	18
-0.381434524	6	2.06E+00	-1	6
-1	4	1.90E+01	-0.408954849	4
0.70143456	8	2.05E-03	0.143809908	8
-0.980466622	3	9.43E+00	-0.80693886	3
-0.768060565	8	3.95E+01	-0.295866612	8
-0.379048133	14	8.42E+00	0.456960569	14
-0.293084452	29	2.08E+01	-0.065604	29
0.03085131	9	1.69E-01	-0.261411507	9
-0.65891954	2	2.18E+00	-0.61615836	2
-0.776539049	7	2.70E+01	-0.391442393	7
-0.062582388	4	3.90E-01	-0.226917024	4
-0.185381405	4	6.45E-01	-0.769341404	4
-0.283718001	6	1.21E+00	-0.20776818	6
0.526218391	17	1.57E-04	1	17
-0.290929047	11	2.30E+00	0.957186102	11
-0.126936539	7	5.27E-01	-0.062645997	7
-0.474176734	6	3.40E+00	-0.217891611	6
-0.464256474	52	1.49E+05	-0.17606211	52
-0.326528569	3	9.95E-01	-0.367869235	3
0.307646014	4	8.57E-02	-0.989687203	4
-0.321979739	6	1.49E+00	-1	6
0.657994207	24	8.89E-07	0.474692281	24
1	11	2.42E-06	0.401923595	11
1	5	3.41E-04	0.54436921	5
2	1	1.36E-02	0.273969416	1
-0.578834633	14	7.06E+01	-0.443369572	14
-0.769617925	4	7.05E+00	-0.711203108	4
-0.102011301	18	4.34E-01	-0.377677915	18
0.179211634	28	1.58E-03	-0.392875881	28
0.076024431	4	2.21E-01	-0.047046767	4
-0.901856829	6	3.43E+01	-0.162683386	6
-0.659694295	6	9.26E+00	-1	6
-0.612355698	30	2.00E+04	2	30
-2	18	4.11E+10	-0.634394374	18
2	26	4.05E-14	1	26
0.633449142	3	3.67E-02	-0.147724319	3
0.110597332	8	1.08E-01	-2	8
0.447089444	9	7.85E-03	-0.136914784	9

-0.574269237	47	1.61E+06	-0.696265302	47
-0.979211642	63	7.12E+15	-0.547545054	63
-0.418033013	16	1.91E+01	-0.371966795	16
-0.599585152	6	6.69E+00	0.283579614	6
-0.717154707	10	6.24E+01	-0.543774009	10
-0.016579293	6	2.87E-01	-0.449175914	6
-0.487180771	10	9.85E+00	-0.575728282	10
-0.167239806	3	5.76E-01	-0.192855083	3
-2	8	4.22E+05	-3	8
-2	10	7.17E+06	-1	10
-2	10	5.72E+06	1	10
-0.903342813	2	4.29E+00	1	2
0.212085177	9	4.44E-02	-0.080290807	9
-0.645139758	11	4.98E+01	-0.339695063	11
-0.013177766	2	3.61E-01	-0.010975114	2
-0.813930468	12	3.42E+02	-0.6337065	12
0	4	3.02E-01	-0.119917407	4
0.292382416	11	1.45E-02	-0.168868232	11
-0.318548039	51	7.29E+02	-0.681302183	51
2	1	5.02E-03	-0.66699504	1
-2	3	4.80E+02	-2	3
-0.847253696	12	4.67E+02	-0.92862441	12
0.352298905	5	5.28E-02	-0.339055784	5
-0.14237645	3	5.28E-01	-0.088738569	3
-0.158914442	5	5.98E-01	-0.407786392	5
1	12	1.31E-06	0.200976136	12
-0.060042779	5	3.74E-01	-0.070986209	5
-0.432251119	5	2.19E+00	-0.283396127	5
-0.010133141	5	2.95E-01	-0.115009572	5
0.155600358	17	1.69E-02	-0.955132731	17
-0.059698787	3	3.98E-01	-0.445572847	3
0.13149032	8	9.40E-02	-0.568568603	8
0.151548523	10	5.85E-02	-0.549126902	10
0.155404262	7	9.52E-02	-0.901192553	7
-0.018262227	7	2.73E-01	-0.53467518	7
-0.450175441	10	7.32E+00	-0.600958646	10
-0.673397725	18	8.51E+02	0.895739786	18
1	12	3.69E-06	0.431112058	12
-0.377424248	4	1.41E+00	-0.342540871	4
-0.713756413	7	1.84E+01	-0.473809707	7
-0.693752922	2	2.40E+00	-1	2
-0.363737721	9	3.09E+00	-0.764999361	9
-0.252685011	38	2.13E+01	-1	38
3	12	9.45E-12	-2	12
0.177542546	6	1.00E-01	-0.547397888	6
-0.886017756	19	2.38E+04	-0.525024988	19
-0.755152565	6	1.55E+01	-0.936573166	6

0.320386602	4	8.13E-02	-0.032612658	4
0.185393899	8	6.55E-02	-0.044847012	8
-1	2	5.64E+00	-0.489149171	2
-0.043843107	2	3.93E-01	-0.124973365	2
0.132374281	5	1.50E-01	-1	5
-1	4	8.12E+01	-1	4
-0.248041622	5	9.13E-01	-0.540823377	5
-0.013736689	3	3.40E-01	-0.616175312	3
-0.773751893	5	1.11E+01	-0.647211914	5
-0.092123869	5	4.35E-01	-0.733204777	5
-0.571922378	7	7.81E+00	-0.132295282	7
-1	12	3.32E+03	-0.689788967	12
0.399055736	7	2.17E-02	-0.220710623	7
-0.069512833	2	4.22E-01	-0.108867627	2
-0.578023915	10	2.04E+01	-0.368954936	10
-0.007724248	5	2.92E-01	-0.223859659	5
-0.326504937	2	8.63E-01	0.048524331	2
-0.886722346	6	3.16E+01	0.659759279	6
-0.340303515	3	1.04E+00	-0.175123002	3
0.237319931	12	1.87E-02	-0.201286003	12
0.450598492	8	1.10E-02	-0.238853542	8
0.307348474	2	1.48E-01	-0.727030586	2
-0.295560515	14	3.46E+00	-0.751925308	14
0.100690026	5	1.74E-01	0.075920525	5
-0.769920117	7	2.59E+01	-0.083582677	7
-0.385606509	9	3.63E+00	-0.314526028	9
-0.827935221	9	9.47E+01	-0.553395429	9
-0.242598342	21	3.65E+00	-0.162278071	21
-0.609908581	5	5.09E+00	-0.258547249	5
-0.880691134	49	8.77E+10	-1	49
0.206920821	1	2.40E-01	-1	1
-1	13	8.41E+03	-1	13
-0.169493828	12	8.34E-01	-0.17206447	12
1	8	2.53E-05	0.597425384	8
-0.028651513	16	1.82E-01	3	16
0.039806061	5	2.33E-01	0.321413056	5
-0.60800449	10	2.60E+01	0.148884606	10
-0.383331873	6	2.08E+00	-0.019082311	6
0.013832403	7	2.24E-01	-0.292113795	7
-0.853657359	9	1.14E+02	-0.976801623	9
-0.987861976	5	3.06E+01	-0.910052261	5
0.82868424	5	5.49E-03	0.817071597	5
0.593112704	9	2.68E-03	0.402535038	9
-0.607061252	7	9.66E+00	-0.24327431	7
0.222562286	5	9.77E-02	-2	5
0.534019481	6	1.46E-02	-1	6
-0.496950317	7	4.96E+00	-0.605498606	7

-0.080889245	1	4.43E-01	-1	1
-0.017641316	1	3.87E-01	-0.007364098	1
-0.017641316	1	3.87E-01	-0.007364098	1
-0.519968222	2	1.48E+00	-0.562253042	2
0.655011628	5	1.25E-02	-0.488665829	5
-0.107849162	7	4.69E-01	-0.293406738	7
-0.575355303	9	1.47E+01	-0.227200276	9
-0.495190341	8	6.32E+00	-0.515269079	8
-0.288916819	2	7.77E-01	-0.24535234	2
-0.432579236	5	2.19E+00	-0.65380116	5
-0.281135465	4	9.54E-01	-0.23595568	4
-0.714535026	3	3.78E+00	0.480402837	3
0.381752359	3	8.72E-02	0.678556575	3
-0.486488821	17	5.56E+01	0.149738586	17
-1	6	1.06E+02	0.402594707	6
-0.325037746	5	1.32E+00	-0.0173965	5
-0.529248222	14	4.17E+01	-0.498640986	14
-0.237936046	13	1.72E+00	-0.787277182	13
-0.980411365	27	8.60E+06	-0.499682692	27
0.794675921	19	1.63E-06	0.895927801	19
0.869939847	17	2.06E-06	0.252197618	17
0.519257469	37	4.62E-08	0.223960759	37
-0.703720509	12	1.22E+02	-0.649565982	12
-0.672595068	7	1.44E+01	-0.521404419	7
-0.375811536	18	1.64E+01	-0.435166451	18
-0.612548832	11	3.75E+01	-0.108402023	11
-1	48	6.50E+13	-0.014469448	48
-0.722634464	23	1.23E+04	-0.638903421	23
-0.21733273	4	7.35E-01	-0.062730104	4
0.043258845	5	2.29E-01	-0.37828688	5
0.171349287	9	5.99E-02	0.108050887	9
1	21	1.22E-10	-1	21
-0.423795966	10	5.92E+00	-0.791552469	10
-0.752734871	5	1.00E+01	-0.497118415	5
0.354760393	12	6.24E-03	-0.282742139	12
0.110718997	1	2.95E-01	-0.034869182	1
-0.062459875	7	3.56E-01	-0.537514212	7
0.143496704	8	8.67E-02	-0.189159427	8
-0.30227734	7	1.52E+00	-0.677135169	7
-0.346867596	7	2.00E+00	-1	7
0.022234167	7	2.13E-01	-1	7
-0.533430376	5	3.54E+00	-0.317281343	5
-0.121249659	5	5.00E-01	-0.206819971	5
-0.43069454	7	3.32E+00	-0.383007077	7
-0.470821797	4	2.07E+00	-0.109556555	4
0.192089631	6	9.28E-02	-0.550944588	6
0.382743755	8	1.74E-02	-1	8

-2	4	2.38E+02	-2	4
-0.621467975	8	1.48E+01	-0.369908441	8
0.19329167	10	4.18E-02	0.432430412	10
-0.33849897	30	6.13E+01	0.204058537	30
-0.343025039	8	2.28E+00	-0.093236524	8
-0.138937497	21	7.52E-01	0.418824123	21
-0.6067237	20	6.76E+02	-0.134638934	20
-0.927601802	7	6.74E+01	-0.907452067	7
-0.536084067	10	1.46E+01	-1	10
-0.097668373	21	4.01E-01	0.330281817	21
0.586003058	8	4.44E-03	-0.354884058	8
-0.393045981	6	2.19E+00	-0.344909921	6
-1	9	1.71E+03	-2	9
-0.613256081	8	1.40E+01	-0.758870415	8
-0.120560529	2	4.86E-01	-0.034374687	2
-0.516628786	1	1.12E+00	0.199961806	1
0	4	3.02E-01	-0.15728739	4
0	2	3.48E-01	-0.10139444	2
0	3	3.24E-01	0	3
-0.119185731	1	4.81E-01	-0.048215119	1
-1	16	2.68E+05	-1	16
-2	6	6.80E+03	-1	6
-1	5	7.10E+01	-0.787382463	5
-0.539392361	3	2.07E+00	-0.310867559	3
-0.00229714	5	2.84E-01	-0.063720126	5
-0.027409619	6	3.04E-01	-0.561223152	6
-0.646119348	9	2.48E+01	-0.387197075	9
-0.051860536	11	2.88E-01	-0.995050442	11
-0.060260671	4	3.86E-01	-0.465398831	4
0.026085488	5	2.48E-01	-0.379856268	5
-0.125167952	6	5.15E-01	0.177993445	6
-0.730470624	8	3.07E+01	0.713592159	8
-0.078817714	3	4.25E-01	-0.187283184	3
-0.249143179	3	7.63E-01	-0.9596855	3
1	16	6.69E-08	0.128611473	16
0.382543085	8	1.74E-02	-0.240184394	8
-0.146703829	6	5.79E-01	-0.016519391	6
-0.129770196	2	4.99E-01	0.002501748	2
-0.256483956	4	8.62E-01	-0.052013759	4
-0.406164321	5	1.93E+00	0.204564636	5
0.373403297	6	3.48E-02	-0.462901335	6
-0.846333242	8	6.68E+01	-0.836436662	8
-0.356782466	14	6.64E+00	-0.852353428	14
-0.657852997	7	1.31E+01	-0.92357465	7
-0.168513038	3	5.78E-01	-0.161825053	3
-0.633936762	5	5.71E+00	-0.285778839	5
-0.828220823	8	5.92E+01	-1	8

-0.168052751	6	6.50E-01	-0.009487415	6
-0.470759462	6	3.34E+00	-0.370187812	6
0	4	3.02E-01	0.203211664	4
-0.160815398	10	7.17E-01	-0.465740093	10
0	7	2.44E-01	-0.039458607	7
-0.338851282	6	1.64E+00	-0.373724477	6
-0.528919843	5	3.47E+00	-1	5
-0.353408592	6	1.77E+00	-0.119621396	6
0.608500484	3	4.00E-02	-0.252127088	3
0.287295313	2	1.56E-01	-0.27225389	2
-0.164301638	5	6.14E-01	0.226148593	5
0.116953867	7	1.20E-01	-0.296542486	7
-2	14	5.67E+06	-0.250805627	14
-0.189625557	4	6.56E-01	-0.154382931	4
-0.016099856	6	2.86E-01	-0.017157139	6
0	2	3.48E-01	-0.194388981	2
-0.129439638	2	4.98E-01	-0.181301271	2
-0.001273404	25	6.98E-02	-0.008501819	25
-0.082945553	6	4.10E-01	0	6
-0.07225534	7	3.78E-01	-0.520492793	7
-0.296600674	5	1.15E+00	0.226741534	5
0.388047681	66	1.08E-10	0.998282824	66
1	6	9.22E-04	2	6
2	13	2.60E-10	1	13
-1	3	1.39E+01	0.155979476	3
0	2	3.48E-01	-0.080548943	2
-0.915900171	4	1.28E+01	-0.396163233	4
-0.037732189	1	4.04E-01	-0.375845292	1
-0.024091472	2	3.72E-01	-0.090884686	2
-0.022630853	2	3.70E-01	-0.388858215	2
-0.864965277	2	3.86E+00	-0.633789518	2
-1	7	1.07E+02	-1	7
0.493234999	2	8.81E-02	-0.642856322	2
-0.688982535	13	1.56E+02	-0.069279006	13
0	7	2.44E-01	0	7
0	7	2.44E-01	0	7
-0.00312962	21	9.50E-02	-0.031796512	21
-0.245975347	17	2.68E+00	0.01738991	17
-0.245377414	5	9.02E-01	-0.184871486	5
-0.212224387	9	1.01E+00	-0.162548792	9
-0.266234289	2	7.29E-01	-0.012265514	2
-0.246975367	5	9.09E-01	0.077045968	5
0.335073927	2	1.37E-01	-0.008500045	2
0.097440817	3	2.32E-01	0	3
-1	6	7.63E+01	-0.463794976	6
-0.042488354	2	3.91E-01	-0.228609602	2
-0.642421321	6	8.43E+00	-0.11042237	6

-0.750160402	6	1.51E+01	-0.095943936	6
-2	3	7.10E+01	-2	3
-1	6	8.14E+01	-1	6
-0.988171215	4	1.72E+01	-1	4
-0.154148074	3	5.50E-01	-0.307076182	3
-0.137591479	3	5.20E-01	-0.402608613	3
-2	50	8.23E+28	-3	50
-0.906282811	15	3.89E+03	-0.708300682	15
-0.478514375	6	3.48E+00	0.475529407	6
-0.221365339	73	1.26E+02	1	73
-0.139111718	1	5.02E-01	2	1
-0.982548674	12	1.65E+03	0.581757996	12
-0.166270823	6	6.43E-01	-0.713968081	6
0.626150479	15	1.17E-04	-1	15
0.702505341	6	5.88E-03	-0.324558172	6
-0.58472636	9	1.58E+01	-0.853681388	9
-0.469235805	5	2.61E+00	-0.1886729	5
0.058986707	7	1.71E-01	-0.358135736	7
0.387673252	9	1.22E-02	-0.470249802	9
-0.466567122	25	2.84E+02	-0.464179882	25
-2	7	2.34E+03	-0.291391972	7
-0.287001679	6	1.24E+00	0.120342669	6
-0.852461799	8	6.96E+01	-0.110582755	8
-0.882909349	25	4.80E+05	-0.614073964	25
1	17	3.64E-07	0.231148726	17
-0.365497878	6	1.89E+00	-0.112017092	6
0.130611871	6	1.29E-01	-0.079975195	6
-1	5	6.07E+01	1	5
-0.806919795	31	1.93E+06	0.019596047	31
0.063050866	14	7.60E-02	-0.228869646	14
-0.93612102	7	7.10E+01	-0.051900221	7
0	6	2.62E-01	-0.007459799	6
0	1	3.73E-01	-0.021228078	1
0	1	3.73E-01	-0.021228078	1
-0.093940329	4	4.43E-01	-0.012292676	4
0	2	3.48E-01	0	2
-0.027583117	3	3.56E-01	-0.243096214	3
-0.804877235	9	7.99E+01	-0.520759315	9
-0.151830014	6	5.95E-01	-0.823878254	6
-0.158780904	3	5.59E-01	-0.198882159	3
-0.199552189	4	6.83E-01	-0.169326166	4
-0.035040915	4	3.48E-01	-0.192302053	4
-0.537646622	3	2.06E+00	-0.890155034	3
-2	11	2.87E+07	-2	11
-2	6	4.28E+03	-0.875080828	6
-0.227871877	2	6.56E-01	-0.259924356	2
-0.844948484	10	1.74E+02	-1	10

-0.737557407	10	7.35E+01	-0.607369645	10
-2	6	2.07E+03	-1	6
-1	3	1.01E+01	-0.431186877	3
-0.737207871	10	7.33E+01	-0.564778065	10
0.218968489	3	1.53E-01	-0.155533231	3
-0.047116366	2	3.96E-01	-0.020176582	2
-1	2	1.36E+01	-0.272335871	2
-2	4	1.71E+02	-0.678941481	4
0.394949574	14	2.22E-03	-0.430472444	14
0.023623011	2	3.26E-01	-0.062317419	2
0	2	3.48E-01	0	2
0	2	3.48E-01	0.107059622	2
0	4	3.02E-01	0.080049404	4
-0.467268061	7	4.14E+00	-0.950625874	7
-0.580338111	1	1.28E+00	-0.147263093	1
-0.858075963	5	1.65E+01	0.336202584	5
-0.347619515	4	1.25E+00	0.031201088	4
0.093394059	5	1.80E-01	1	5
0.037897098	6	2.13E-01	0.494416273	6
-0.292362557	2	7.84E-01	-0.11429208	2
-0.334568219	4	1.19E+00	-0.214958488	4
-0.25158876	5	9.29E-01	-0.26579797	5
-0.093159967	3	4.46E-01	0.018293491	3
-0.636141671	5	5.77E+00	-0.212633989	5
-0.703494905	5	7.94E+00	-0.47265834	5
0.052831332	3	2.70E-01	-0.039933621	3
0.140365448	4	1.70E-01	-0.212602343	4
-0.498202164	13	2.32E+01	-0.922807569	13
0.693017782	32	7.30E-09	0.862494601	32
2	17	6.15E-14	2	17
0.475459005	14	9.41E-04	0.545409364	14
-0.621965035	7	1.06E+01	0.63915162	7
-0.713081578	4	5.59E+00	0.057458263	4
-0.045201355	12	2.61E-01	0.206357947	12
0.193311039	9	5.10E-02	1	9
-0.711423688	5	8.25E+00	-0.099238825	5
-0.652713874	3	3.06E+00	0.034546686	3
0	1	3.73E-01	0	1
-0.567379346	6	5.62E+00	0.200404807	6
1	17	9.74E-10	0.403256038	17
2	3	1.55E-03	0.041566807	3
0.33240611	6	4.35E-02	-0.52050847	6
0.3936139	8	1.62E-02	-0.554765858	8
-0.050002433	3	3.85E-01	0.0195516	3
-0.119765718	7	5.04E-01	0.472194002	7
-1	5	3.41E+01	-0.437339386	5
0.079386455	7	1.51E-01	-0.118916162	7

-1	9	1.21E+03	-0.671012113	9
-0.549243242	8	9.09E+00	-1	8
-0.686956659	19	1.49E+03	-0.109116901	19
0.756488612	10	4.55E-04	-0.239765791	10
0.051097471	11	1.18E-01	-0.375796802	11
-0.136830251	13	6.26E-01	0.26489666	13
-0.150726524	16	7.83E-01	-0.556083633	16
-0.870080472	13	9.53E+02	-0.337356515	13
-0.979894013	5	2.95E+01	-1	5
-0.650003436	3	3.03E+00	-2	3
-0.341105165	2	8.98E-01	0.665518524	2
-0.540928093	4	2.76E+00	-0.264903411	4
0.306863017	13	7.44E-03	-0.855171712	13
0.340359218	6	4.16E-02	-1	6
2	6	7.64E-05	-0.343047219	6
0.043436484	9	1.54E-01	-1	9
-0.296802845	10	2.14E+00	-0.455002058	10
-1	6	1.36E+02	-0.150254174	6
0.416829398	1	1.54E-01	-0.06423284	1
1	13	9.24E-08	-0.831333092	13
1	3	9.24E-03	-0.561040438	3
-2	2	4.54E+01	-0.305853386	2
-0.28909229	7	1.41E+00	0.063902928	7
-0.422371599	3	1.38E+00	-0.081373934	3
-0.35350465	25	3.76E+01	-0.793404858	25
1	4	2.08E-03	0.06247234	4
-0.289757885	6	1.25E+00	-0.499073479	6
0.735927939	9	9.34E-04	-0.715616545	9
2	1	1.20E-02	-0.320828135	1
0.121557151	1	2.88E-01	-0.005824737	1
-0.086599556	8	4.07E-01	-0.308465816	8
-0.634835882	30	3.22E+04	-0.350089369	30
-1	9	3.62E+02	-0.418162297	9
2	14	4.36E-09	0.493918547	14
-0.180590183	18	1.23E+00	-0.502504309	18
-0.016049494	4	3.22E-01	-0.177490898	4
-2	11	1.19E+06	-1	11
-0.26357172	5	9.83E-01	-0.146830955	5
-2	9	3.67E+04	-0.501836845	9
-0.718488186	40	1.03E+07	0.611489757	40
-0.947299924	12	1.19E+03	-1	12
2	12	1.24E-10	-0.684998291	12
-0.258676166	7	1.17E+00	0.042547224	7
-0.22962952	14	1.71E+00	2	14
-0.684840145	4	4.98E+00	-0.265971935	4
-1	7	3.68E+02	0.704857407	7
-0.010852076	4	3.16E-01	-0.122473059	4

-0.50261286	27	9.05E+02	-0.631169528	27
-0.36046468	11	4.20E+00	-0.549523158	11
-1	7	1.03E+03	-2	7
-0.782647568	4	7.43E+00	-0.609549384	4
-2	2	1.03E+02	-1	2
-0.968909324	18	4.30E+04	0.716093237	18
-0.521078529	25	7.50E+02	1	25
-0.666613643	15	2.59E+02	0.214102887	15
-0.068270261	7	3.69E-01	-0.093010078	7
-0.697412082	5	7.72E+00	-0.363242741	5
-0.458780292	5	2.48E+00	-0.739369615	5
-0.625043427	14	1.16E+02	2	14
0.133007945	6	1.28E-01	2	6
2	16	2.45E-13	2	16
2	3	3.04E-04	1	3
1	9	3.11E-05	0.363544025	9
-0.938292871	17	1.66E+04	1	17
-0.737612051	23	1.57E+04	0.007986138	23
0	5	2.81E-01	-0.67346869	5
-1	5	4.75E+01	-0.29376137	5
-0.67939664	6	1.03E+01	-1	6
-1	7	1.99E+03	-1	7
-0.061275057	3	4.00E-01	-0.066508428	3
-1	6	1.31E+02	-2	6
-0.149791135	5	5.73E-01	-0.533347797	5
-0.405865763	2	1.08E+00	-0.788010135	2
-4	3	7.51E+05	-3	3
-2	5	8.11E+02	-1	5
-0.481160584	7	4.51E+00	-0.565762624	7
-0.201440737	3	6.47E-01	-0.229721687	3
-1	10	3.89E+03	-0.589690552	10
-0.574047229	12	3.64E+01	-0.538733517	12
-0.427055478	1	9.26E-01	-0.252235919	1
-0.272638578	18	4.17E+00	-0.215328889	18
-0.815628001	10	1.38E+02	-0.434654766	10
-0.27105881	5	1.02E+00	-0.318861334	5
-0.662386546	3	3.16E+00	-0.3812674	3
-0.817938637	9	8.80E+01	0.027658622	9
-0.681289052	87	1.72E+14	-0.078229975	87
-1	14	3.19E+05	-2	14
-0.511206048	14	3.44E+01	0.277757868	14
-0.47598669	6	3.43E+00	-0.175214435	6
-0.094812117	64	2.65E-01	2	64
0.19671408	17	1.01E-02	-0.10006153	17
-0.346867881	16	8.17E+00	-0.583140827	16
-1	9	1.09E+04	-0.617036509	9
1	4	6.86E-04	0.045273741	4

1	7	3.39E-05	1	7
-0.342574161	1	7.73E-01	-0.032903413	1
0	1	3.73E-01	0	1
0	2	3.48E-01	0	2
0	4	3.02E-01	0	4
0	2	3.48E-01	0	2
0	3	3.24E-01	-0.363538256	3
0	1	3.73E-01	-0.037104539	1
0	2	3.48E-01	0	2
0	4	3.02E-01	0	4
0	2	3.48E-01	0	2
0.178991298	1	2.55E-01	-0.883253692	1
-1	9	1.25E+03	-0.821978784	9
-0.253012133	3	7.73E-01	-0.236955071	3
0.814351225	11	1.56E-04	-0.777538729	11
1	6	7.94E-05	-1	6
-0.951759123	61	7.28E+14	-1	61
-0.718001669	36	2.05E+06	-1	36
-0.059264365	4	3.85E-01	-0.000631814	4
-0.836234463	9	1.01E+02	-0.059366567	9
-0.099495684	3	4.56E-01	0.070565322	3
-0.442938897	3	1.49E+00	0.019401123	3
-0.072176718	10	3.52E-01	2	10
-0.517934937	7	5.63E+00	-0.178982589	7
-0.646124105	1	1.48E+00	-0.048164217	1
-0.084672555	5	4.20E-01	0.032726025	5
0	2	3.48E-01	0	2
-0.012407628	2	3.60E-01	0	2
-0.183195848	2	5.79E-01	-0.027214083	2
-0.573845183	12	3.64E+01	-0.4777394	12
0	4	3.02E-01	-0.249116359	4
-0.277974408	9	1.64E+00	-0.566045475	9
-1	12	1.06E+04	-1	12
-2	23	4.59E+10	-2	23
-1	6	5.03E+02	-0.170116395	6
-1	3	5.54E+01	-0.77918463	3
0.286909899	8	3.31E-02	-0.454535418	8
-0.054797429	6	3.52E-01	-0.1695277	6
1	3	5.08E-03	0.822522194	3
3	3	3.00E-05	2	3
2	12	4.90E-09	2	12
0.068104529	12	9.07E-02	0.185688623	12
-0.095027176	5	4.42E-01	-0.144921595	5
-0.393381691	21	3.63E+01	-0.629102241	21
2	9	3.13E-07	0.991559729	9
-1	6	1.45E+02	3	6
-0.660710053	6	9.31E+00	2	6

-0.381162354	8	2.94E+00	1	8
-0.380686044	9	3.50E+00	0.013346581	9
0	3	3.24E-01	-0.074486022	3
-0.50036423	7	5.06E+00	-0.543995997	7
-0.196734145	49	9.25E+00	-0.130700753	49
0.042992197	7	1.88E-01	-1	7
0.000685465	4	3.01E-01	-0.179775896	4
0.047144738	1	3.38E-01	-0.931679359	1
-0.913329953	22	1.70E+05	-1	22
-0.756597613	4	6.68E+00	0.460324346	4
-0.448857065	10	7.24E+00	0.877063282	10
-0.151950146	1	5.16E-01	0.08926444	1
-0.185743796	7	7.52E-01	0.192388097	7
0.154322638	4	1.60E-01	0.13170638	4
-1	2	6.46E+00	-0.696706418	2
-0.30712476	20	8.56E+00	0.909692113	20
0.102318013	10	8.68E-02	0.406384104	10
1	5	1.45E-03	-0.034140723	5
0.529142444	10	2.82E-03	0.258826228	10
-0.767609515	8	3.94E+01	-1	8
-0.747448191	3	4.23E+00	-2	3
-0.485803758	3	1.72E+00	-1	3
-0.478919096	1	1.03E+00	-1	1
-0.038890644	2	3.87E-01	-0.925047196	2
0	1	3.73E-01	-0.100852505	1
-0.395280442	3	1.26E+00	-0.335649295	3
-0.534097782	4	2.69E+00	-1	4
-0.103620005	4	4.61E-01	-0.125913191	4
-0.263221465	17	3.33E+00	-0.518795125	17
0.700161755	8	2.06E-03	0.408787797	8
-1	4	4.31E+01	-0.784704578	4
-0.146527441	6	5.78E-01	-0.002329617	6
-0.017641316	1	3.87E-01	0	1
-0.006782311	2	3.54E-01	-0.195695148	2
-1	15	3.11E+04	-0.848442161	15
0.041363424	11	1.28E-01	-0.432539074	11
-0.301932564	6	1.34E+00	-0.527078231	6
-0.234142264	5	8.55E-01	-0.442048159	5
-0.263401174	6	1.09E+00	-0.209493534	6
-0.646121312	10	3.53E+01	0.235496428	10
-0.215772926	10	1.12E+00	-0.635618821	10
-0.024081111	17	1.63E-01	-1	17
-0.992097527	11	1.01E+03	-0.616597234	11
0.591032798	2	6.71E-02	-1	2
-0.065770889	3	4.06E-01	0.064201276	3
0	2	3.48E-01	0.088312473	2
-0.815585477	6	2.15E+01	0.107255333	6

0.275123099	5	7.61E-02	-0.346548504	5
-0.183329824	4	6.39E-01	-0.068542209	4
0.021166034	2	3.28E-01	-0.01765741	2
-0.044977229	3	3.78E-01	-0.001415494	3
0.244663544	7	5.54E-02	-0.538175258	7
0.976462887	10	7.79E-05	-0.422960412	10
1	2	1.05E-02	-0.164079551	2
0.785857907	6	3.75E-03	-0.426203445	6
0.297531059	11	1.39E-02	-1	11
1	6	5.27E-04	0.675965893	6
0.75222788	3	2.44E-02	-0.903206162	3
0.71872374	26	1.06E-07	-0.623104252	26
0.798399043	2	3.77E-02	-0.394056586	2
-1	4	2.14E+01	-2	4
-0.080108812	7	3.97E-01	-0.373173562	7
0	4	3.02E-01	0	4
0	2	3.48E-01	0	2
0	4	3.02E-01	0	4
0	3	3.24E-01	-0.122127103	3
0	1	3.73E-01	-0.019554675	1
0.303199508	9	2.27E-02	-0.647129505	9
-0.182909827	6	7.04E-01	-0.342796677	6
0.056768442	5	2.15E-01	-0.319600972	5
0	3	3.24E-01	-0.147726	3
-0.415595894	5	2.02E+00	-0.303680708	5
-0.593618704	7	8.91E+00	-1	7
-0.168485452	5	6.26E-01	-0.359927127	5
-0.003572964	3	3.28E-01	-0.294043206	3
-0.207397795	5	7.53E-01	-0.177609995	5
0.687478991	8	2.25E-03	-0.116543228	8
-0.370832933	11	4.60E+00	-0.20034069	11
-1	8	2.82E+02	-2	8
-0.281428336	4	9.55E-01	-0.353936406	4
0.057377893	2	2.96E-01	-0.497092901	2
-0.317953222	9	2.21E+00	-1	9
-0.422794157	5	2.09E+00	-0.660624209	5
0.344853224	3	9.90E-02	-0.451065975	3
-0.304368847	5	1.19E+00	0.412108789	5
-0.054572297	4	3.77E-01	-0.203237719	4
-1	6	1.64E+02	-0.691196759	6
-1	7	1.06E+03	-1	7
-0.665888882	3	3.20E+00	-0.554688673	3
-0.286408439	5	1.10E+00	-0.143458433	5
-0.629734196	6	7.88E+00	-0.665333079	6
-0.490337922	7	4.76E+00	-0.916107145	7
-0.148707056	4	5.55E-01	-0.033084827	4
-0.849444547	7	4.20E+01	-0.976216355	7

-0.572473104	10	1.95E+01	-0.876810657	10
-0.207620854	5	7.54E-01	-0.058647887	5
0	8	2.27E-01	-0.165373582	8
2	7	1.81E-07	-0.487239944	7
-1	4	2.56E+01	-0.587575809	4
-0.496600211	4	2.30E+00	-0.648998095	4
-0.069551885	4	4.01E-01	-0.253519446	4
0	3	3.24E-01	-0.141826207	3
-1	6	1.17E+02	-0.772377672	6
-0.039368733	3	3.71E-01	-0.01186608	3
-0.514178903	11	1.60E+01	-0.547490967	11
0	5	2.81E-01	0	5
-0.798643815	7	3.09E+01	-0.731581875	7
0.314438933	4	8.33E-02	-0.125069157	4
-0.077858696	8	3.84E-01	-0.214225434	8
-0.186472697	3	6.15E-01	0	3
-1	13	5.07E+04	-0.880151831	13
-0.684484629	4	4.97E+00	-0.825862049	4
-0.459091947	5	2.49E+00	-0.414832963	5
-1	10	9.73E+03	-0.823990653	10
-2	6	3.04E+03	-0.883711077	6
-0.362017631	6	1.85E+00	-0.385488378	6
0	2	3.48E-01	-0.023753246	2
0.214916773	4	1.25E-01	-1	4
1	8	1.74E-04	-0.150970006	8
0.039640952	10	1.44E-01	-0.340799371	10
-0.269626767	4	9.10E-01	-0.493222859	4
-0.044675441	3	3.78E-01	-0.192270018	3
-0.462555721	3	1.59E+00	-0.157130043	3
-0.814167343	5	1.34E+01	-0.426946495	5
-1	8	1.58E+03	-2	8
0.037882615	11	1.32E-01	-1	11
-0.079790706	1	4.42E-01	-0.004410361	1
0.345648543	10	1.23E-02	-0.053129027	10
0.383561133	10	9.08E-03	-0.074796107	10
0.059185322	8	1.53E-01	-1	8
-0.054620992	3	3.91E-01	-0.070740113	3
-0.251317595	2	7.00E-01	0	2
-0.022827395	2	3.70E-01	-0.005721216	2
-0.641002384	14	1.37E+02	-0.653558355	14
0	3	3.24E-01	-0.066660213	3
-0.334764578	15	6.09E+00	-0.215065133	15
-0.339985482	3	1.04E+00	-0.215794345	3
0	5	2.81E-01	-0.316727132	5
-0.645884647	8	1.74E+01	-1	8
-0.582104843	4	3.27E+00	-0.465533916	4
1	9	2.64E-05	-1	9

2	9	1.94E-07	-1	9
2	3	8.52E-04	-0.789095815	3
0.964239883	13	1.04E-05	-0.574083889	13
-1	2	1.06E+01	-2	2
-0.335912095	3	1.03E+00	-2	3
0.617633932	5	1.50E-02	-0.850240278	5
-0.214767977	4	7.27E-01	-0.028451245	4
-0.010238451	3	3.36E-01	-0.00215238	3
-0.039221142	1	4.06E-01	-0.008245269	1
-0.647448628	5	6.09E+00	-0.318817782	5
-0.730398814	3	3.99E+00	-0.27565296	3
-0.203103236	24	2.41E+00	-0.323649875	24
-0.012657	3	3.38E-01	-0.000975137	3
0.469841154	20	1.03E-04	-0.762676566	20
1	8	5.60E-05	-0.736955002	8
0.845669706	3	1.77E-02	-0.122913527	3
2	7	5.56E-06	-2	7
-0.082462345	4	4.23E-01	-0.010419642	4
-0.165341504	6	6.40E-01	-0.213671041	6
-0.672944318	4	4.74E+00	0	4
-0.012450413	4	3.18E-01	-0.005227636	4
0.526826618	73	1.19E-14	-0.399044638	73
3	3	3.18E-05	2	3
0.637207494	24	1.27E-06	2	24
0.004104719	4	2.97E-01	0.860693717	4
0.220947616	5	9.85E-02	-0.027859655	5
1	13	7.95E-07	-0.79384047	13
0.416716537	3	7.73E-02	-0.558881745	3
0.148594874	3	1.94E-01	-0.103761464	3
-0.170275639	21	1.21E+00	-0.218469626	21
-0.286859143	6	1.23E+00	-0.547290309	6
0.960801189	27	5.94E-10	0.615757185	27
-0.685423141	13	1.51E+02	1	13
-0.318089416	2	8.43E-01	0.310948974	2
-0.844859652	8	6.62E+01	-0.629608586	8
-1	19	3.07E+07	-0.323997367	19
-2	6	1.03E+03	0.098512125	6
0.499777933	8	7.93E-03	0.319830233	8
0.030738524	1	3.50E-01	0.041841337	1
-0.035497597	15	2.07E-01	-0.045659486	15
-0.510342053	3	1.87E+00	-0.298503325	3
0	1	3.73E-01	0	1
0.077188253	7	1.53E-01	-0.117193583	7
-0.11692543	6	4.93E-01	-0.178078532	6
-0.646808809	21	1.73E+03	-0.030299595	21
-1	10	7.54E+02	-0.587624027	10
-0.899516245	4	1.20E+01	-0.756083704	4

0.445495573	9	7.94E-03	-0.795453555	9
-0.330102022	4	1.17E+00	-0.444717602	4
-0.254680959	6	1.04E+00	-0.682718534	6
-0.178377636	4	6.26E-01	-0.327354703	4
-0.345503838	4	1.24E+00	-0.21665107	4
-0.956521752	3	8.68E+00	-0.206753418	3
-0.856606221	4	1.01E+01	-0.145996772	4
-2	3	2.14E+02	-1	3
-0.380784606	5	1.72E+00	-0.249144874	5
-0.36790655	42	8.81E+02	-0.378791145	42
-0.409636034	2	1.09E+00	0.444776781	2
-0.037527347	8	2.93E-01	-0.569926615	8
-0.016276028	6	2.86E-01	-0.284254688	6
-0.278032137	4	9.42E-01	-0.841478683	4
-0.819775741	11	2.27E+02	-0.620943897	11
-0.470297473	7	4.22E+00	-0.537860053	7
0.272569222	5	7.71E-02	-0.010255262	5
-0.781312124	3	4.75E+00	-0.860016468	3
-0.467151387	6	3.27E+00	-0.581537634	6
-0.005160579	3	3.30E-01	-0.399194949	3
0.53642033	7	9.46E-03	-0.384308978	7
0.11611759	6	1.40E-01	-0.310399332	6
-0.199193992	11	1.04E+00	-0.113398892	11
-0.670933228	5	6.80E+00	-0.374176163	5
-0.55641968	5	3.95E+00	-0.21789034	5
-0.422846704	9	4.78E+00	-0.107507962	9
-0.008817318	4	3.13E-01	0	4
0.160705982	3	1.86E-01	-0.025963281	3
-0.008058899	5	2.92E-01	-0.260753094	5
-0.600862277	4	3.53E+00	0.064859652	4
-0.322217566	6	1.49E+00	-0.069122565	6
-0.468173779	5	2.60E+00	-0.447787968	5
-0.455847169	7	3.87E+00	-0.871103558	7
-1	8	3.10E+02	-0.045833678	8
-0.759040226	16	1.13E+03	-0.675837616	16
-0.70054169	9	3.70E+01	-0.627040974	9
-2	9	1.83E+04	-1	9
-1	5	2.07E+02	-1	5
0	6	2.62E-01	0	6
0	3	3.24E-01	-0.007254864	3
0	6	2.62E-01	-0.066046566	6
-0.299920911	9	1.93E+00	-0.608508847	9
-0.669083526	8	2.03E+01	-0.030783185	8
-0.081142315	17	3.35E-01	-0.134956757	17
-0.492803942	3	1.76E+00	-0.663132537	3
-0.119185731	1	4.81E-01	0	1
0.03491071	19	6.42E-02	-0.554819014	19

-0.317579792	7	1.67E+00	-0.635083377	7
-0.557340491	6	5.33E+00	-0.573330762	6
0	5	2.81E-01	-0.339217336	5
0	1	3.73E-01	-0.384804193	1
-0.997682416	6	5.75E+01	-0.585365649	6
-0.190856385	6	7.35E-01	-0.180171712	6
0.064882664	5	2.07E-01	-0.094388862	5
-2	5	3.71E+02	-2	5
-0.356329261	2	9.37E-01	-1	2
-0.232023829	6	9.18E-01	-0.104373593	6
-2	10	1.29E+05	-2	10
-2	3	1.04E+02	-2	3
-0.052712236	7	3.36E-01	-0.579894074	7
0.013776708	9	1.91E-01	-0.655160501	9
-0.424485013	3	1.39E+00	-0.261096622	3
0.443476706	5	3.42E-02	-0.689651964	5
0.296505481	5	6.88E-02	-0.350352221	5
0	1	3.73E-01	0	1
0	2	3.48E-01	0	2
-0.296997682	4	1.02E+00	-0.099737062	4
0.059882936	2	2.94E-01	-0.057545997	2
0.024269296	5	2.51E-01	-0.634118714	5
0.000472536	3	3.23E-01	0.015188214	3
-0.954292259	4	1.50E+01	-0.633494364	4
-0.07427394	3	4.18E-01	-0.222600227	3
-0.183301209	4	6.39E-01	-0.002068623	4
-0.416457236	5	2.03E+00	-0.402509049	5
0	4	3.02E-01	-0.002185737	4
-0.295210388	3	8.94E-01	-0.229510493	3
-0.278935137	4	9.45E-01	-0.018848433	4
-0.624812758	3	2.78E+00	-0.209790924	3
-0.248956737	4	8.36E-01	-0.589375869	4
0.299985502	9	2.32E-02	-0.084596495	9
-0.227935896	4	7.67E-01	0.292208946	4
1	4	3.22E-03	2	4
2	9	2.98E-07	2	9
-0.100727456	12	4.39E-01	0.037751134	12
-1	10	1.45E+04	-1	10
-0.135176985	3	5.16E-01	-1	3
2	7	2.70E-05	-0.734175388	7
-0.013910602	2	3.61E-01	-0.011587955	2
-0.161815166	2	5.45E-01	-0.142448397	2
-0.87334488	8	8.01E+01	-1	8
-0.551193512	4	2.88E+00	-0.566908555	4
-0.516845148	6	4.28E+00	-0.469358006	6
-0.467632577	6	3.28E+00	-0.291981144	6
-1	6	1.15E+02	-0.944220065	6

0	1	3.73E-01	-0.01143908	1
0.512471397	4	3.70E-02	-0.1762537	4
-0.153057509	3	5.48E-01	-0.056606217	3
-1	8	1.31E+03	-0.627341292	8
-0.931310377	5	2.34E+01	-2	5
-0.094297264	6	4.36E-01	-0.127355264	6
0.316898036	3	1.09E-01	-0.122269825	3
0.062686338	8	1.49E-01	-0.22808768	8
-0.238243563	8	1.13E+00	-1	8
-2	6	1.04E+03	-2	6
-1	9	1.95E+03	-1	9
-0.683632809	5	7.23E+00	-0.178914924	5
-0.002372483	3	3.27E-01	0	3
0	2	3.48E-01	-0.078056231	2
0	3	3.24E-01	-0.077429732	3
0	3	3.24E-01	0	3
-0.808840307	4	8.27E+00	-0.113245703	4
-1	9	8.92E+02	-0.804082752	9
-0.334404474	7	1.85E+00	-0.283330458	7
-0.7534624	6	1.54E+01	-0.564685533	6
0	4	3.02E-01	-0.100720305	4
-0.797388501	8	4.81E+01	-0.202337464	8
-0.382517937	5	1.73E+00	-0.710396769	5
0.015867503	3	3.07E-01	-0.038006307	3
0.102179977	8	1.14E-01	-1	8
-0.340621204	7	1.92E+00	-1	7
-0.514711635	17	7.94E+01	-0.559392676	17
-0.326708186	3	9.96E-01	0.101072041	3
-0.660501125	11	5.69E+01	-0.493070003	11
0	2	3.48E-01	0	2
0	3	3.24E-01	0	3
0.296772883	7	4.04E-02	-0.058830635	7
0.163383477	5	1.29E-01	-0.488114554	5
-1	8	6.32E+02	-0.690604179	8
-0.092086514	5	4.35E-01	-0.187458674	5
-0.339936896	7	1.91E+00	-0.751322438	7
0.062315549	9	1.34E-01	-1	9
-0.059324295	2	4.10E-01	-0.017983239	2
0.295141845	7	4.08E-02	0.672903842	7
-0.990106234	17	3.19E+04	1	17
-0.893631411	14	2.02E+03	0.590146299	14
-0.889949257	17	9.03E+03	0.408381094	17
-0.039004166	9	2.82E-01	-0.360222239	9
1	2	1.69E-02	-1	2
1	2	5.74E-03	0.763960561	2
1	2	1.78E-02	-0.137503777	2
2	1	6.61E-03	-0.115812429	1

0.719727688	7	3.11E-03	-0.509128101	7
-0.88454919	3	6.78E+00	-0.702251333	3
-0.164162425	2	5.49E-01	-0.083386184	2
-0.254776126	7	1.14E+00	-0.216434027	7
-0.365086621	6	1.88E+00	-0.350716761	6
-0.379113783	3	1.19E+00	-0.21595772	3
-0.081757151	3	4.29E-01	-0.153097211	3
-0.379977226	6	2.04E+00	-0.61013029	6
-0.35003654	3	1.08E+00	0.320457714	3
0.495973342	6	1.80E-02	-0.641333843	6
0	1	3.73E-01	-0.012862608	1
-0.657538397	9	2.70E+01	-0.983518176	9
0.102635738	5	1.73E-01	-1	5
0.255371255	3	1.35E-01	-0.806199183	3
0.087687947	4	2.11E-01	-0.253919523	4
-0.073472729	3	4.17E-01	-0.41021841	3
-0.833618144	4	9.16E+00	-0.914891893	4
-0.408188489	9	4.29E+00	-0.837125609	9
-2	9	5.97E+04	-1	9
-0.376648583	5	1.68E+00	-0.104486212	5
-0.566595048	10	1.86E+01	-0.752065097	10
-0.273925832	4	9.26E-01	-0.330862571	4
0.072752956	3	2.52E-01	-0.318639725	3
-0.726083463	4	5.90E+00	-0.45275927	4
2	4	4.72E-04	-0.496960232	4
-0.026859037	9	2.58E-01	0.094606456	9
-0.690994453	4	5.11E+00	-0.734904934	4
-0.03224491	4	3.44E-01	-0.053076346	4
-0.074687603	4	4.10E-01	-0.005416802	4
-0.194597585	11	9.96E-01	-0.277961812	11
0	1	3.73E-01	0	1
0	1	3.73E-01	-0.009810468	1
0.108056106	2	2.57E-01	-0.019563291	2
0.637854506	3	3.61E-02	-0.122970484	3
2	13	5.48E-09	-0.80627094	13
-0.065111178	5	3.83E-01	-0.198570866	5
0.000932027	2	3.47E-01	-0.296982757	2
-0.679576222	5	7.09E+00	-0.426130205	5
-0.026425329	2	3.74E-01	-0.164327423	2
0	1	3.73E-01	-0.013716052	1
-0.019327416	3	3.46E-01	-0.126613352	3
-0.135060048	4	5.25E-01	-0.208043525	4
-0.01861785	2	3.66E-01	-0.138372157	2
0	3	3.24E-01	-0.154570459	3
-0.189794509	2	5.90E-01	-0.575057273	2
-0.603011642	9	1.80E+01	-0.051115779	9
0	3	3.24E-01	-0.002221603	3

0	3	3.24E-01	0	3
-0.020750396	2	3.68E-01	-0.013003692	2
-0.459873095	6	3.14E+00	-0.369373285	6
-0.468059211	4	2.05E+00	0.069371017	4
-0.050543594	4	3.71E-01	-0.176862563	4
-2	7	1.35E+04	-1	7
-0.841615013	8	6.47E+01	-0.810739594	8
-0.269067827	5	1.01E+00	-0.077652646	5
0	2	3.48E-01	-0.009153272	2
0.040732357	7	1.91E-01	-0.175129523	7
-0.477035564	5	2.71E+00	-0.013319866	5
0	7	2.44E-01	-0.60451284	7
-1	5	3.65E+01	-0.825260943	5
-0.385046027	5	1.75E+00	-0.081229544	5
-0.486644337	5	2.84E+00	-0.10449437	5
-0.129353978	7	5.34E-01	-0.01713425	7
0.515678883	6	1.61E-02	-0.849325701	6
-0.458774651	5	2.48E+00	-1	5
-0.095498278	9	4.28E-01	-0.414053552	9
0.656677412	2	5.59E-02	-0.058613818	2
0.46047523	8	1.03E-02	-0.300293275	8
0	1	3.73E-01	-0.006874326	1
0	2	3.48E-01	-0.046169247	2
0	3	3.24E-01	-0.180963023	3
-2	13	1.99E+06	-1	13
0	3	3.24E-01	-0.093400162	3
-0.050560608	3	3.85E-01	-0.233651463	3
-0.153697043	21	9.42E-01	-0.684070785	21
-0.548779055	9	1.21E+01	-0.347566687	9
-0.925101361	9	1.94E+02	-0.61234889	9
-1	9	8.93E+02	-0.400884022	9
-0.140247588	2	5.14E-01	-0.430373702	2
0	5	2.81E-01	-0.04078224	5
-0.204517678	3	6.54E-01	-0.588057033	3
0	3	3.24E-01	-0.602047884	3
-1	12	4.71E+03	-0.601508221	12
0.028576481	8	1.88E-01	-0.494891518	8
-0.038367795	5	3.37E-01	-0.03163208	5
0.330865466	6	4.38E-02	-0.011419422	6
-0.295555556	6	1.29E+00	-0.201634572	6
-0.476058337	10	9.01E+00	-0.611529393	10
-1	4	9.42E+01	-1	4
-0.793754313	3	4.96E+00	-0.006140925	3
0.495023796	2	8.77E-02	-0.246697587	2
-0.819553633	4	8.64E+00	-0.746071322	4
-0.020196422	18	1.46E-01	-1	18
-0.558607649	12	3.15E+01	-1	12

-0.39105464	16	1.39E+01	-0.508350857	16
-0.054295939	10	3.05E-01	-0.368877317	10
0.070121526	2	2.86E-01	-0.185682945	2
-0.199576865	4	6.83E-01	-0.499758489	4
0	2	3.48E-01	0	2
0	4	3.02E-01	0	4
-0.246032675	3	7.55E-01	0	3
0.682296779	8	2.33E-03	-0.769556738	8
0.701089822	7	3.49E-03	-0.733900182	7
-0.771390325	7	2.62E+01	-0.318374774	7
-0.170028429	16	9.86E-01	0.243003473	16
0.250040804	17	5.13E-03	0.407128148	17
-0.655326718	4	4.41E+00	-0.346944878	4
-0.477312038	13	1.88E+01	-0.178988744	13
-0.099164957	4	4.53E-01	-0.032700381	4
-0.052259565	10	3.00E-01	-0.471831729	10
-1	7	1.30E+03	-1	7
-1	7	1.59E+03	-0.970141725	7
-0.786753291	4	7.56E+00	-0.416031711	4
-0.298987876	6	1.32E+00	-0.257317196	6
-0.070091368	6	3.83E-01	0	6
-0.05085313	11	2.86E-01	-0.252445852	11
-0.147584248	16	7.54E-01	-0.516763575	16
-0.741483926	8	3.31E+01	-0.729488027	8
-0.211332488	4	7.17E-01	-0.192957388	4
-0.181372092	2	5.76E-01	-0.13007564	2
-0.415144469	13	1.01E+01	-0.284273941	13
0	2	3.48E-01	-0.038353565	2
-0.652149796	10	3.70E+01	-0.89365547	10
-0.403618018	24	7.59E+01	-0.752190448	24
-0.562196481	5	4.06E+00	-0.345617279	5
-0.473792822	5	2.67E+00	-0.573416585	5
-0.47001832	4	2.07E+00	-0.738692156	4
-0.177068178	4	6.23E-01	-0.243956289	4
-0.668098722	11	6.07E+01	-0.961312503	11
-0.534715972	4	2.69E+00	-0.428022002	4
-2	8	7.23E+04	-2	8
-0.498168717	5	3.00E+00	-0.154756694	5
-0.208910838	3	6.64E-01	-0.039461259	3
0	3	3.24E-01	0	3
0	2	3.48E-01	0	2
0.004728329	5	2.75E-01	-0.051854875	5
0	4	3.02E-01	0	4
-0.188381923	3	6.19E-01	-0.346588061	3
-1	4	5.73E+01	-1	4
-1	2	1.01E+01	-1	2
-2	1	9.07E+00	-1	1

-1	4	4.57E+01	-0.722024822	4
-0.943873391	3	8.31E+00	-0.233753074	3
-0.127136606	4	5.08E-01	-0.098477626	4
-1	5	3.23E+02	-0.770833096	5
-0.23761661	4	7.98E-01	-1	4
-0.017036572	1	3.87E-01	-0.028235255	1
-0.212984063	14	1.44E+00	-0.21598587	14
-0.365976289	2	9.63E-01	-0.158271662	2
-0.084858024	6	4.14E-01	-0.643513826	6
-0.461618202	8	5.05E+00	-0.798351548	8
-1	21	4.39E+05	-0.938664569	21
-2	12	4.22E+07	-1	12
-0.545285748	5	3.75E+00	-0.594959651	5
-0.716868638	7	1.88E+01	-0.336196457	7
-3	6	3.69E+05	-0.913648875	6
-1	9	2.31E+03	-1	9
0.34722221	2	1.32E-01	-0.462097952	2
0.008388836	3	3.15E-01	-0.005299229	3
0.003628989	17	1.15E-01	-0.01161028	17
-1	9	9.88E+03	-0.364956368	9
-0.244292441	45	3.20E+01	-0.421064147	45
0.358866764	5	5.11E-02	-0.247306544	5
0.189904628	4	1.39E-01	-0.221654321	4
-0.677036885	6	1.02E+01	-0.32177788	6
-0.31270646	9	2.12E+00	-0.333724106	9
-0.102641088	6	4.56E-01	-0.320015288	6
-0.970104056	6	4.96E+01	-0.467159739	6
-0.006332271	4	3.10E-01	-0.02012334	4
0.165790408	4	1.53E-01	-0.132631439	4
1	9	6.03E-06	-0.920955375	9
-0.180429583	6	6.95E-01	-0.173409451	6
1	9	1.25E-05	-0.481096221	9
0.336544234	4	7.61E-02	-0.071839215	4
-0.436042232	4	1.80E+00	-0.37156719	4
0.177122489	1	2.56E-01	-0.172958183	1
1	11	6.30E-06	-1	11
0.626748961	4	2.32E-02	-0.097031282	4
0.040305504	13	1.07E-01	-0.412305552	13
-0.374015341	2	9.84E-01	-0.467382001	2
-0.32673	13	4.18E+00	-0.998729442	13
-0.462272291	4	2.00E+00	-0.629290801	4
1	17	7.41E-10	-0.342778257	17
0.145460275	4	1.66E-01	-0.027280806	4
1	4	8.40E-04	-0.326334668	4
-0.709046201	2	2.50E+00	-0.168177132	2
-0.227031402	1	6.05E-01	0.097638085	1
1	3	9.49E-03	0.412987016	3

0.349121898	1	1.78E-01	0.026527985	1
0	6	2.62E-01	0	6
0	2	3.48E-01	0	2
0.138673154	9	7.62E-02	-0.082538069	9
0	8	2.27E-01	-0.154701773	8
0	2	3.48E-01	0	2
0	6	2.62E-01	0	6
-0.13013837	4	5.14E-01	-1	4
-2	6	9.56E+02	-0.657628127	6
0.00035153	1	3.73E-01	-0.009301996	1
-0.427055478	1	9.26E-01	-0.895094897	1
-0.364342664	3	1.13E+00	-0.084004635	3
-0.338904917	5	1.41E+00	-0.313997804	5
-0.089963215	3	4.41E-01	-0.27884887	3
-0.309560149	8	1.82E+00	-0.874082361	8
-0.413644842	4	1.64E+00	-0.302340325	4
-0.310259334	5	1.23E+00	-0.079871945	5
-0.20994282	8	9.31E-01	-0.070500055	8
-0.194747451	5	7.09E-01	-0.171851184	5
-0.153322946	2	5.33E-01	-0.095316783	2
-0.415320493	14	1.24E+01	-0.592826694	14
-0.512069703	6	4.17E+00	-0.901460292	6
-0.010296253	1	3.81E-01	0	1
-0.412167482	8	3.62E+00	-0.430663496	8
-0.760205635	5	1.04E+01	-0.435206598	5
0.451411549	4	4.76E-02	-0.280973757	4
-1	6	1.50E+02	-0.920128438	6
0.689119433	7	3.75E-03	-0.542274534	7
0.057782452	5	2.14E-01	-0.879857682	5
-0.18182614	6	7.00E-01	-1	6
-0.130621964	4	5.15E-01	-0.697628736	4
0.672268509	9	1.49E-03	-1	9
-0.611740749	7	9.94E+00	-0.945948151	7
-0.246211011	9	1.30E+00	-0.5501124	9
-2	8	1.22E+04	-1	8
-0.252922965	139	3.15E+05	0.743641007	139
-0.664910564	14	1.77E+02	-0.082154132	14
-0.216487898	10	1.12E+00	-0.311562873	10
0.410873607	16	9.48E-04	-0.216992548	16
-0.002053819	36	3.30E-02	0.013135278	36
0.199114087	15	1.46E-02	-0.046516297	15
0	2	3.48E-01	-0.007581127	2
-0.141060415	7	5.74E-01	-0.353609768	7
-0.011011094	2	3.59E-01	0	2
-0.366381755	10	3.74E+00	-0.73030544	10
-0.456018909	19	5.98E+01	-0.65661397	19
-0.917881201	9	1.84E+02	-0.62050138	9

0.181770825	4	1.43E-01	-0.329933109	4
0.455241351	7	1.55E-02	-0.886495755	7
-0.586028187	6	6.22E+00	-0.466958487	6
0.045900326	8	1.67E-01	-0.786454533	8
0.425121509	7	1.86E-02	-1	7
-0.307243861	9	2.04E+00	-0.852721549	9
-0.298949039	8	1.69E+00	-0.927467294	8
0.001787969	8	2.25E-01	-0.283645077	8
-0.624557764	8	1.51E+01	-1	8
0.418717882	7	1.93E-02	-0.816676116	7
0.048151181	7	1.82E-01	0	7
-0.152195542	6	5.96E-01	-0.177525451	6
0.026960216	9	1.74E-01	-0.534537535	9
-0.724442991	4	5.86E+00	-0.068552934	4
-1	5	3.89E+01	-1	5
0	2	3.48E-01	-1	2
0.287043261	8	3.31E-02	-0.985934922	8
-2	3	2.46E+02	-2	3
0.039114162	1	3.43E-01	-0.016443683	1
0.039114162	1	3.43E-01	-0.016443683	1
-0.948983648	2	4.88E+00	-0.818450546	2
0.402469192	3	8.12E-02	-0.89494817	3
-0.359563246	6	1.83E+00	-0.772654672	6
-1	2	7.96E+00	-1	2
-0.051608713	2	4.01E-01	0.026754645	2
-0.55150351	12	2.95E+01	-0.987801772	12
-0.34365644	8	2.29E+00	-0.740269185	8
-0.011701138	5	2.97E-01	0.084731795	5
-0.280856826	15	3.31E+00	-0.684945648	15
-0.423060765	2	1.13E+00	-0.000960089	2
0.293991334	7	4.11E-02	-0.960517354	7
0	5	2.81E-01	0.083992482	5
0	4	3.02E-01	-0.072303684	4
-0.490702328	2	1.36E+00	-0.57867515	2
0.247544136	4	1.10E-01	-1	4
-0.008145179	3	3.33E-01	-0.379051077	3
-1	2	7.01E+00	-2	2
-0.617475782	14	1.07E+02	-0.966378557	14
0.987295336	4	5.30E-03	-0.68625658	4
-0.459152153	6	3.13E+00	-0.656068079	6
-0.159594436	11	7.35E-01	0.0271352	11
-0.513496201	9	9.33E+00	0.247476875	9
-0.867983811	7	4.70E+01	-0.338733745	7
-0.985311736	10	5.37E+02	-1	10
0.026251493	3	2.96E-01	-0.003384591	3
0.334605031	5	5.74E-02	-0.577226387	5
-0.272488868	4	9.21E-01	-0.730528699	4

-0.200407836	5	7.28E-01	-0.351904569	5
-0.782066529	8	4.34E+01	-0.903448268	8
-1	9	1.09E+04	-1	9
0.528491628	6	1.51E-02	-0.469373412	6
0	5	2.81E-01	-0.335759515	5
0	3	3.24E-01	-0.093548724	3
-0.013501195	2	3.61E-01	-0.022315928	2
-0.698620483	5	7.76E+00	-0.585498809	5
-0.14311225	2	5.18E-01	-0.187699975	2
-0.16837317	6	6.51E-01	-0.114265194	6
0	1	3.73E-01	0	1
0	3	3.24E-01	-0.058741975	3
0	1	3.73E-01	-0.013716052	1
-0.702170947	9	3.75E+01	-0.481789319	9
-0.08394276	1	4.46E-01	-0.061582127	1
0	1	3.73E-01	-0.015047248	1
0.120993977	10	7.47E-02	-0.886906382	10
-1	35	9.16E+09	-0.661587808	35
-2	9	2.83E+04	-1	9
-3	12	2.59E+09	-2	12
-0.524137985	7	5.85E+00	-1	7
-0.102263774	5	4.57E-01	-1	5
-0.093120465	1	4.55E-01	-0.077880918	1
-0.988382357	6	5.47E+01	-0.751020916	6
-0.478053628	6	3.47E+00	0.10355998	6
-0.006778968	2	3.54E-01	-0.001420474	2
-0.301489594	4	1.04E+00	-0.088020652	4
0.71201029	20	3.01E-06	-0.330817654	20
0.467244976	4	4.46E-02	-0.073802535	4
0.762462788	5	7.52E-03	-0.519094082	5
-0.278669836	4	9.44E-01	-0.421499154	4
-0.961462825	4	1.55E+01	-0.651350234	4
-0.619368014	3	2.72E+00	-0.140807358	3
-0.355441598	6	1.79E+00	-2	6
-0.26646707	5	9.97E-01	-0.068718226	5
-0.271670035	4	9.18E-01	-0.273747003	4
-1	4	3.70E+01	-1	4
-0.011666883	9	2.31E-01	-0.687518643	9
-0.487798091	12	1.63E+01	-0.943025147	12
-0.279400038	9	1.66E+00	-0.326130877	9
0.031466951	4	2.65E-01	0	4
0	4	3.02E-01	-0.088520197	4
-0.240966192	4	8.09E-01	-0.519097878	4
-0.279770394	3	8.48E-01	-0.085563356	3
-0.440970778	5	2.28E+00	-0.087073164	5
-0.043906105	2	3.93E-01	-0.054517259	2
-0.598479983	5	4.82E+00	-0.358798046	5

-0.018850722	2	3.66E-01	-0.009736892	2
-0.323571093	4	1.13E+00	0	4
-0.206644831	3	6.59E-01	-0.146026795	3
-2	16	2.49E+07	-1	16
-0.607120991	4	3.62E+00	-0.043061989	4
-0.137335855	2	5.10E-01	-0.061597093	2
0	1	3.73E-01	0	1
-0.238226353	2	6.75E-01	0.029424842	2
-0.351118209	3	1.08E+00	0.115058201	3
-0.598844754	5	4.83E+00	-0.943425609	5
-0.030082235	2	3.78E-01	-0.031264857	2
-0.881739421	5	1.85E+01	-1	5
-0.690401793	5	7.46E+00	-0.990943754	5
0.264115963	4	1.02E-01	-0.674539258	4
-0.598785581	4	3.50E+00	-0.771914974	4
0.017951967	2	3.31E-01	-0.003792168	2
-0.305098072	6	1.36E+00	-0.519142011	6
0.003888175	5	2.76E-01	-0.444145839	5
-0.16253241	2	5.47E-01	-0.037995745	2
-0.822895129	7	3.57E+01	-0.3139026	7
-0.350275887	6	1.74E+00	-0.827103399	6
-0.389794719	4	1.49E+00	-0.050339349	4
-0.379132884	4	1.42E+00	-0.070212367	4
0	2	3.48E-01	-0.00739371	2
0	2	3.48E-01	0	2
-0.447229734	7	3.67E+00	-0.108943288	7
-0.436908099	3	1.45E+00	-0.177442059	3
-0.037732189	1	4.04E-01	-0.046933298	1
-0.227596926	9	1.13E+00	-1	9
0.201589291	4	1.32E-01	-0.212180888	4
0.752989822	11	2.66E-04	-1	11
-0.644026126	9	2.44E+01	-0.859606961	9
-1	8	2.95E+02	-0.670170658	8
0.345884977	15	2.78E-03	-0.720844997	15
-0.315550283	17	6.44E+00	-0.312463125	17
-0.247388644	11	1.57E+00	-0.309599144	11
-0.045980904	1	4.12E-01	0	1
0.066658624	6	1.83E-01	-0.579554146	6
-0.022655941	7	2.80E-01	-0.206203534	7
-0.00998993	21	1.05E-01	-0.344478307	21
-0.046983877	27	1.46E-01	-0.728080084	27
-0.354912197	9	2.90E+00	-0.327515922	9
0.922632383	5	3.52E-03	-0.375492244	5
-0.012659399	7	2.64E-01	-0.037255303	7
-0.21821245	8	9.84E-01	-0.179102374	8
-1	7	1.47E+02	-0.883679641	7
-0.884516636	5	1.88E+01	-0.94218293	5

0.146393951	2	2.31E-01	-0.098951713	2
-0.3757312	4	1.41E+00	-0.038480317	4
0	2	3.48E-01	-0.041229588	2
0	4	3.02E-01	-0.335325599	4
0.529735978	4	3.45E-02	-0.059053572	4
-0.069895746	10	3.46E-01	-0.863028759	10
-0.582615241	4	3.28E+00	-0.452522362	4
-0.013545237	3	3.39E-01	-0.106874591	3
-0.924269824	8	1.13E+02	-1	8
-0.526479446	5	3.43E+00	-0.815691224	5
-0.003438358	5	2.86E-01	-0.614474124	5
-0.130537859	2	5.00E-01	-0.127315616	2
0	5	2.81E-01	0	5
0	2	3.48E-01	0	2
-0.820995876	5	1.39E+01	-0.843219519	5
0	3	3.24E-01	-0.153568717	3
-0.103452954	4	4.61E-01	-0.30358697	4
0	5	2.81E-01	-0.027974037	5
-0.145211568	7	5.88E-01	-0.122288245	7
0.569626039	6	1.21E-02	-0.256602668	6
0.263938579	34	6.83E-05	-0.423187217	34
-0.035135026	3	3.66E-01	-0.187116058	3
-0.155613481	2	5.36E-01	-0.865158966	2
0.441362528	2	1.02E-01	-0.819079998	2
-0.460274606	1	9.93E-01	-0.018671552	1
-0.398945646	13	8.60E+00	-0.344778405	13
0.294154117	4	9.05E-02	-0.054366515	4
-0.302095789	9	1.96E+00	-0.748823946	9
0.352599039	11	8.61E-03	-1	11
0.278834057	12	1.27E-02	-0.415279822	12
0.185175494	11	3.68E-02	-1	11
0.120323428	10	7.51E-02	-0.182395487	10
-0.097572223	14	4.20E-01	-0.322540576	14
-0.238432644	6	9.50E-01	-1	6
0.457040124	24	2.82E-05	-2	24
-0.609078242	9	1.89E+01	-0.854178728	9
-3	4	2.45E+04	-1	4
-0.051599416	3	3.87E-01	-0.245023758	3
-0.887504572	3	6.85E+00	-2	3
1	2	1.94E-02	-0.729366715	2
0.306734183	2	1.48E-01	-0.282610016	2
0.03201517	1	3.49E-01	-0.01604775	1
-0.117516679	7	4.97E-01	-0.131092591	7
-0.912108417	6	3.62E+01	-0.408689587	6
0.169093187	10	5.08E-02	-0.463224793	10
0	4	3.02E-01	-0.032237327	4
-0.213326359	32	4.99E+00	-0.308933819	32

-0.792992783	6	1.90E+01	-0.378042925	6
0.320702894	9	1.99E-02	-0.342039169	9
-0.083664427	4	4.25E-01	-0.01654995	4
-0.051830802	4	3.73E-01	-0.33562349	4
-0.208106384	8	9.20E-01	-0.058164667	8
-0.035163297	4	3.49E-01	-0.016892312	4
-0.607664461	7	9.70E+00	-0.168281459	7
-1	18	1.85E+05	-0.776950446	18
-2	6	1.36E+03	-1	6
-0.632891681	4	4.03E+00	-0.557050618	4
0.294910901	2	1.53E-01	-0.051132204	2
0.068870797	8	1.43E-01	-0.347555349	8
-0.213402934	6	8.30E-01	-0.055981897	6
0	2	3.48E-01	0	2
-0.290257451	5	1.12E+00	-0.139755985	5
0.441871422	2	1.02E-01	-0.531422375	2
-0.203114374	3	6.51E-01	-0.405100374	3
-0.089359289	3	4.40E-01	-0.039837023	3
-0.698765896	4	5.27E+00	-1	4
-0.19074272	7	7.75E-01	-0.309199881	7
-0.003147712	6	2.66E-01	-0.099868872	6
0	6	2.62E-01	-0.06659308	6
0.03141142	11	1.40E-01	-0.631555629	11
-1	14	6.63E+03	-1	14
-0.286750908	12	2.49E+00	-0.161911618	12
-1	12	3.07E+03	-0.41566318	12
-1	5	7.06E+01	-0.587832362	5
0.315386916	24	3.23E-04	-0.408703846	24
0.112957567	3	2.20E-01	-1	3
-0.683688904	3	3.40E+00	-0.734206575	3
-0.252354416	6	1.02E+00	-0.7299716	6
-0.427769946	6	2.64E+00	-0.43898753	6
0.028441121	4	2.69E-01	0	4
0.145073891	4	1.67E-01	0	4
0.2066793	9	4.62E-02	-0.240415418	9
0.241040564	8	4.51E-02	-0.203976929	8
-0.192061779	3	6.27E-01	-0.103469237	3
-0.022415379	1	3.91E-01	-0.009365982	1
-0.001108682	5	2.83E-01	-0.068414573	5
-0.146831929	8	6.09E-01	-0.872243731	8
-1	2	6.28E+00	-0.534467415	2
-0.781253832	5	1.15E+01	-0.527231251	5
-0.07672333	9	3.73E-01	-0.082464687	9
0.454606733	6	2.24E-02	-0.061328516	6
-0.401086959	7	2.77E+00	-0.054453029	7
-0.472728781	6	3.37E+00	-0.084090726	6
0.650763027	12	3.93E-04	-0.434065535	12

-1	8	8.29E+02	-0.840827365	8
-0.284126677	5	1.08E+00	-0.19132786	5
-0.429104379	5	2.16E+00	-0.063128512	5
-0.143791681	12	6.56E-01	0.139177172	12
-0.090376099	21	3.59E-01	-0.012015279	21
-0.100264657	1	4.62E-01	-0.01534401	1
-0.080414782	7	3.97E-01	-0.070782153	7
0.140900076	22	8.99E-03	-0.062816504	22
0.238106859	2	1.79E-01	-0.084154471	2
0.938179541	2	2.56E-02	-0.211448463	2
2	5	1.35E-04	-0.088646986	5
-1	2	1.94E+01	-0.744248419	2
-0.527386403	7	5.96E+00	-0.181871486	7
-0.116046091	2	4.80E-01	-0.393517757	2
-0.389607761	18	1.97E+01	-0.189879543	18
0.110996922	13	5.26E-02	0.214875565	13
-0.003107152	5	2.85E-01	0.087060724	5
-0.266533275	21	5.26E+00	0.063465255	21
0.038922371	43	6.02E-03	0.605425047	43
-0.617303715	1	1.39E+00	0.058773876	1
0.000639661	22	8.35E-02	0.011412681	22
-0.024014823	12	2.14E-01	-0.001226441	12
-0.222882385	14	1.60E+00	0.10998554	14
-0.23250872	14	1.77E+00	-0.076264505	14
-0.014923005	5	3.02E-01	0	5
0	5	2.81E-01	0	5
-0.017958647	8	2.57E-01	-0.596223457	8
0.107556092	6	1.46E-01	-0.232005333	6
-0.078046327	46	1.82E-01	0.1192219	46
0.085059862	9	1.13E-01	-0.046277886	9
-0.154164909	2	5.34E-01	-0.031628159	2
-0.061790415	3	4.01E-01	-0.014846627	3
-0.116900914	5	4.90E-01	0.16428278	5
-0.039116144	10	2.70E-01	0.047636775	10
-0.540660913	12	2.67E+01	-0.489441199	12
0	2	3.48E-01	0	2
0.014407432	11	1.62E-01	-0.013537646	11
-0.293864072	23	1.02E+01	-0.094952945	23
0.060996664	9	1.35E-01	0.016269195	9
-1	6	5.42E+02	-1	6
-0.607538529	8	1.34E+01	-0.515522546	8
-0.282153268	4	9.58E-01	-0.278174521	4
-0.140247939	8	5.83E-01	-0.03557793	8
0.013071796	7	2.25E-01	-0.33883053	7
0.122511356	5	1.57E-01	-0.554964191	5
-0.330173536	9	2.41E+00	-0.187482514	9
0.462100726	4	4.55E-02	-0.452156732	4

0.214530713	1	2.36E-01	-0.246438871	1
-0.544741513	4	2.81E+00	-0.626654578	4
-1	1	6.00E+00	-0.300377223	1
-0.0247057	11	2.28E-01	-0.975421707	11
0.03632549	3	2.86E-01	-0.247358779	3
-0.154074983	2	5.34E-01	0.045361317	2
-0.006936689	5	2.91E-01	-0.163409751	5
-0.285753363	7	1.38E+00	-0.696762947	7
0.001690144	2	3.46E-01	-0.446625687	2
-0.094246031	6	4.36E-01	-0.081950519	6
-0.370169984	22	3.03E+01	-0.138968811	22
-0.178893076	3	5.99E-01	-0.112001119	3
0.044948704	2	3.07E-01	-0.191464971	2
0.153113634	5	1.36E-01	-0.120611137	5
-0.16112303	4	5.84E-01	-0.419691757	4
0.259438874	10	2.46E-02	-0.122006924	10
-0.131511283	5	5.25E-01	-0.098927157	5
-0.098674709	11	4.33E-01	-0.075397082	11
0.029659988	2	3.20E-01	-0.004149672	2
-0.648841625	19	8.76E+02	-0.50093089	19
-1	31	1.70E+10	-0.873583581	31
0.612889011	7	5.95E-03	-0.235163545	7
2	8	1.36E-07	-0.426167387	8
0.633359622	10	1.22E-03	0.102448916	10
0.535504112	25	4.80E-06	-0.1307166	25
0.0117307	4	2.88E-01	-0.287440415	4
-0.516472351	14	3.64E+01	-0.288501544	14
-0.20358436	40	6.62E+00	-0.959079049	40
-0.15729597	9	6.75E-01	-0.849979892	9
0.006390666	3	3.17E-01	-0.036984521	3
-0.391704761	6	2.18E+00	-0.391042905	6
-0.756146598	1	1.86E+00	-0.515880057	1
-0.047711724	20	1.95E-01	-0.275998628	20
0.016905661	3	3.06E-01	-2	3
-0.287117847	2	7.73E-01	-0.158007011	2
0	2	3.48E-01	0	2
-0.029895074	9	2.64E-01	-0.554437263	9
0.00048838	3	3.23E-01	-0.038723378	3
0	2	3.48E-01	0	2
-0.274057632	3	8.31E-01	-0.21145971	3
-0.173955714	9	7.64E-01	-0.447786514	9
-0.054317566	2	4.04E-01	-0.064543293	2
-0.058175443	3	3.96E-01	0.025590967	3
0	1	3.73E-01	0	1
0	4	3.02E-01	-0.133823113	4
0	5	2.81E-01	-0.067901029	5
-0.207082911	2	6.19E-01	0	2

0	2	3.48E-01	-0.001544681	2
0	2	3.48E-01	-0.535774486	2
-0.151267254	2	5.30E-01	0	2
0.289343923	3	1.20E-01	-0.028807376	3
-0.110133615	5	4.74E-01	-0.331399187	5
-0.007317555	2	3.55E-01	-0.00305695	2
-0.037064787	2	3.85E-01	-0.016496956	2
0	8	2.27E-01	-0.034740536	8
0.191955888	7	7.63E-02	0.157464815	7
-0.234665457	8	1.10E+00	-0.531359768	8
0	3	3.24E-01	-0.091214524	3
0	1	3.73E-01	0	1
-0.499491159	4	2.33E+00	-0.477011909	4
-0.752676878	6	1.53E+01	-0.3156173	6
-0.137488197	5	5.40E-01	-0.011417374	5
0	5	2.81E-01	0.082309538	5
0	2	3.48E-01	0	2
0	2	3.48E-01	0	2
0.073204827	1	3.19E-01	0.003222468	1
-0.040752931	20	1.76E-01	-0.168281815	20
-0.676872743	8	2.14E+01	-0.810516536	8
0.100168916	2	2.63E-01	-0.848899635	2
-1	9	1.97E+03	-0.876971364	9
0	2	3.48E-01	-0.698782058	2
-0.977873711	21	2.68E+05	-1	21
0.437388336	2	1.03E-01	-0.26073551	2
0.273060892	5	7.69E-02	0.068719418	5
0.035796324	2	3.15E-01	-0.041369339	2
-1	3	1.57E+01	-1	3
0.107807171	5	1.69E-01	0.01502256	5
-0.010155883	2	3.58E-01	0	2
-0.157762823	7	6.35E-01	-0.162901844	7
-0.262987866	9	1.47E+00	-0.409725268	9
-0.204579326	9	9.57E-01	-0.013833912	9
-0.002979376	18	1.17E-01	0.188459123	18
-0.121351104	7	5.09E-01	0	7
-0.012532894	15	1.60E-01	-0.075479437	15
-0.384877263	13	7.47E+00	-0.4443016	13
-0.002126264	10	2.01E-01	-0.000885616	10
-0.039886998	15	2.17E-01	-0.017848624	15
-0.418226697	4	1.67E+00	-0.202899722	4
-0.737977758	7	2.14E+01	-0.86015732	7
-0.027693654	3	3.56E-01	-0.015191355	3
-0.351159742	12	4.55E+00	-0.314379428	12
0	3	3.24E-01	0	3
-0.060057767	9	3.30E-01	0	9
0	1	3.73E-01	0	1

-0.037840639	23	1.47E-01	-0.015945879	23
-0.205002732	6	7.93E-01	-0.152565246	6
0.029699017	5	2.44E-01	0.012804704	5
0.066404184	9	1.30E-01	-0.063739965	9
-0.311770399	15	4.70E+00	-0.123467327	15
-1	6	3.71E+02	2	6
0.023965554	16	9.69E-02	-0.038118861	16
-0.292365308	23	9.92E+00	-0.301633048	23
-0.224052485	18	2.19E+00	-0.208106139	18
-0.026799664	13	2.09E-01	-0.028450266	13
-0.635615905	5	5.75E+00	-0.135438916	5
-0.283579766	5	1.08E+00	0.035862832	5
-0.001015061	10	1.99E-01	-0.036121975	10
-0.698015777	10	5.35E+01	-0.499265751	10
-0.164411135	12	7.95E-01	-0.272739775	12
-0.449539736	2	1.21E+00	-0.37230977	2
-1	9	6.74E+03	1	9
-0.154747612	7	6.23E-01	-0.002504838	7
-0.012595758	6	2.80E-01	-0.007642449	6
-0.470415187	14	2.23E+01	-0.733661884	14
-0.220366405	4	7.44E-01	-0.530430923	4
-0.849932553	8	6.85E+01	-0.909566377	8
-0.054762911	8	3.28E-01	0.041411194	8
-0.640628927	5	5.89E+00	-0.548676455	5
-0.179329	2	5.73E-01	-0.851516606	2
-0.178866176	2	5.72E-01	-0.384994717	2
-0.474460407	4	2.10E+00	0.09712424	4
0.046823597	3	2.76E-01	-0.771483805	3
0.171586242	4	1.50E-01	-1	4
-1	10	1.19E+03	-0.553314794	10
0.967417067	2	2.36E-02	-0.879271957	2
-0.209749291	7	8.70E-01	-0.411199822	7
-0.318735179	2	8.44E-01	-0.033957055	2
0.229718147	4	1.18E-01	-0.349721623	4
0	2	3.48E-01	-0.09857464	2
0.118626449	10	7.62E-02	-0.111074254	10
0	1	3.73E-01	0	1
-0.006234115	2	3.54E-01	0.001150488	2
-0.393893991	5	1.83E+00	0.078166986	5
-0.004243828	6	2.68E-01	0	6
0.382618626	9	1.26E-02	-0.327714715	9
-0.004953548	2	3.53E-01	-0.004126457	2
0	2	3.48E-01	0	2
0	4	3.02E-01	0.025168219	4
-0.40709048	2	1.08E+00	-0.194738856	2
-0.336149104	6	1.61E+00	-0.128152356	6
0.371635395	2	1.24E-01	0	2

-0.208098607	8	9.20E-01	-0.1182049	8
0	12	1.71E-01	-0.018736714	12
0	4	3.02E-01	0	4
-0.328730452	12	3.69E+00	-0.158336043	12
-0.013713771	7	2.65E-01	-0.006821416	7
0.003647967	45	1.48E-02	-0.052790359	45
-0.264218131	6	1.09E+00	-0.04565046	6
-0.143891191	9	6.12E-01	0	9
0.01862048	3	3.04E-01	-0.010735953	3
-0.052740795	11	2.91E-01	-0.040637764	11
0.04663104	12	1.11E-01	-0.000827994	12
-0.510631013	24	4.78E+02	-0.676810934	24
-0.079019547	6	4.02E-01	-0.021733061	6
0.143212171	3	1.98E-01	0.058143525	3
-0.179729072	15	1.06E+00	0.006699437	15
-0.302045728	2	8.06E-01	0.03624516	2
0.122390929	8	1.00E-01	-0.076994914	8
0	4	3.02E-01	-0.027162736	4
-0.167311228	8	6.99E-01	-0.006607398	8
-0.118732081	4	4.91E-01	0.09172494	4
0	4	3.02E-01	-0.000776818	4
-0.063951794	6	3.70E-01	-0.054758122	6
0.099567826	2	2.64E-01	0.07592657	2
-0.222354238	3	6.96E-01	0.109247682	3
-0.174000169	6	6.71E-01	-0.030940389	6
-0.128215878	24	6.65E-01	-1	24
-0.226790719	10	1.22E+00	-0.185260017	10
-0.114796573	9	4.94E-01	-0.039346009	9
-0.209141514	13	1.29E+00	-0.250207146	13
-0.33401013	10	2.88E+00	-0.611397235	10
-0.580014664	15	9.75E+01	-0.626261751	15
-0.184352543	9	8.24E-01	-0.515166177	9
4	8	1.15E-11	-0.862419732	8
0.166225192	11	4.34E-02	0.303878725	11
0.017390721	11	1.58E-01	-0.165334989	11
0.000951388	8	2.26E-01	0	8
0	2	3.48E-01	-0.005977076	2
0.014923586	27	4.45E-02	-0.000532029	27
0	3	3.24E-01	-0.011155155	3
0	4	3.02E-01	0	4
0	8	2.27E-01	0	8
-0.235362803	7	1.02E+00	-0.079045763	7
-0.021360328	8	2.62E-01	0	8
0.782147903	8	1.19E-03	0.489880616	8
-0.00793459	5	2.92E-01	-0.003359123	5
-0.013019738	1	3.84E-01	-0.003706793	1
-0.063902971	9	3.39E-01	-0.047050509	9

-0.047995957	3	3.82E-01	0.842379598	3
0	8	2.27E-01	0.002439175	8
0	3	3.24E-01	0	3
0.072815781	12	8.68E-02	0.079470958	12
0.831648177	10	2.49E-04	-0.33120553	10
0.127458524	11	6.08E-02	-0.070711316	11
0.103964939	7	1.30E-01	-0.193367816	7
-0.022282514	8	2.64E-01	-0.089764416	8
0	1	3.73E-01	0	1
-0.250538385	5	9.24E-01	-0.110138352	5
0	3	3.24E-01	-0.072803398	3
-0.022737218	4	3.31E-01	-0.361642586	4
-0.139478823	6	5.57E-01	-0.239500844	6
-0.128541374	4	5.11E-01	-0.310634933	4
-0.275623433	3	8.36E-01	-0.232567802	3
-0.216123454	8	9.71E-01	-0.216329889	8
1	1	4.18E-02	0	1
0.329134481	15	3.36E-03	-0.387314021	15
-0.135843074	8	5.66E-01	0.05499898	8
-0.534034413	6	4.70E+00	-0.510767814	6
-0.017700021	2	3.65E-01	0.00231496	2
-0.319860001	3	9.73E-01	-0.346371005	3
0.412253055	6	2.82E-02	-1	6
-0.051388471	1	4.16E-01	-0.063846751	1
-0.006510751	3	3.31E-01	0	3
-0.612128655	5	5.15E+00	-0.125873889	5
-0.127670329	4	5.09E-01	-0.362361543	4
0.000340557	1	3.73E-01	-0.030727747	1
0.271433841	3	1.27E-01	0.218103701	3
-0.623552671	6	7.62E+00	-0.28189283	6
-0.49471708	2	1.38E+00	-0.025228918	2
0.922772108	2	2.67E-02	-1	2
-0.602809077	5	4.92E+00	-0.909426203	5
-0.00649202	8	2.38E-01	-0.315107208	8
0.018517037	3	3.04E-01	-0.321385009	3
0.336452399	2	1.36E-01	-0.226698757	2
-2	3	1.30E+02	-2	3
-0.677668457	4	4.84E+00	-0.212859155	4
-0.060889143	9	3.32E-01	-0.987982289	9
-0.013121738	36	4.35E-02	-0.004672431	36
-0.905482448	5	2.07E+01	-0.299172852	5
-0.471808597	37	5.44E+03	-0.34902987	37
0.034713373	6	2.17E-01	0.0009365	6
-0.12774155	5	5.16E-01	-0.073807509	5
0.081169635	3	2.45E-01	-0.000503392	3
-0.305048906	6	1.36E+00	-0.175124883	6
-0.011511838	1	3.82E-01	-0.004799494	1

-0.500945961	3	1.81E+00	-0.072843341	3
0.023766753	2	3.25E-01	-0.01122776	2
0.952955309	8	3.78E-04	-0.419977933	8
0.098412768	3	2.31E-01	-0.157527504	3
1	7	3.94E-04	-0.788920321	7
0.455182716	8	1.07E-02	-0.76855537	8
-0.459143795	3	1.57E+00	-0.173021319	3
-0.135436064	1	4.98E-01	-0.014690798	1
-0.362365858	15	8.32E+00	-0.338780751	15
-0.427971978	7	3.26E+00	-0.391012805	7
-0.423820398	2	1.13E+00	-0.360147506	2
-0.208847797	3	6.64E-01	-0.144160216	3
-1	4	3.36E+01	-0.243439082	4
0.217127235	18	6.28E-03	-0.150447489	18
0.308323903	11	1.26E-02	-0.930893586	11
0.056638091	1	3.31E-01	-0.031457894	1
0.144457133	11	5.25E-02	-0.402436381	11
-0.060417294	2	4.11E-01	-0.019703907	2
0.526659059	6	1.52E-02	-0.174288792	6
0.43526019	9	8.56E-03	-1	9
0.009270924	3	3.14E-01	-0.018273087	3
0.258774614	4	1.05E-01	-0.014674384	4
0.525696641	3	5.32E-02	-0.435059185	3
-0.010344179	3	3.36E-01	-0.002831065	3
0.030222848	2	3.20E-01	-0.007927457	2
0	1	3.73E-01	-0.009810468	1
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1	2	1.69E-02	-1	2
0.40231947	2	1.14E-01	-0.745467159	2
0.527780152	4	3.48E-02	-0.771397656	4
-0.61225183	3	2.66E+00	-1	3
0	1	3.73E-01	0	1
0	2	3.48E-01	-0.007228758	2
-0.870038137	62	4.05E+13	-0.67181981	62
-1	11	2.34E+03	-1	11
-1	7	5.60E+02	-0.493749156	7
-0.066218347	13	3.09E-01	-0.010336075	13
-0.084125083	15	3.59E-01	-0.068493631	15
-0.196977461	4	6.76E-01	-0.092178579	4
-0.507203594	11	1.50E+01	-0.420532394	11
-0.14498328	79	3.36E+00	-0.020402463	79
0.157909309	1	2.67E-01	0	1
0	4	3.02E-01	-0.045355447	4
0	3	3.24E-01	-0.080851272	3
-0.062444646	21	2.35E-01	0.352274141	21
-0.229847864	9	1.15E+00	-0.022367747	9
-0.258549059	4	8.70E-01	0.157521978	4

-0.075843688	9	3.70E-01	0.025743212	9
0.674671581	4	1.91E-02	0.553523738	4
1	1	2.06E-02	0.740962019	1
-0.218781068	5	7.95E-01	-0.300764605	5
-0.145630083	7	5.90E-01	-0.019882837	7
0.310990375	5	6.42E-02	-0.108674739	5
0.145917638	39	4.90E-04	-0.073984006	39
0.084699118	8	1.29E-01	-0.081125466	8
-0.017992574	14	1.80E-01	0.00012148	14
0.020563662	3	3.02E-01	-0.129297223	3
-0.511214413	6	4.15E+00	-1	6
-0.933460161	5	2.37E+01	-1	5
-0.804882894	5	1.29E+01	-1	5
-0.598513334	3	2.54E+00	-0.922232049	3
-0.30142468	4	1.04E+00	0.272777779	4
-0.041604674	3	3.74E-01	-0.094191429	3
-0.484970824	11	1.24E+01	-0.311022184	11
-0.258759165	8	1.29E+00	-0.058345399	8
-2	4	6.07E+02	-0.765477295	4
-0.577602501	6	5.94E+00	-0.336580846	6
-0.019963254	2	3.68E-01	-0.008358813	2
-0.001346044	4	3.03E-01	-0.064219905	4
0.803585113	11	1.72E-04	-0.745897777	11
-0.003354384	12	1.77E-01	-1	12
1	34	6.31E-17	-0.967258511	34
-0.619221745	8	1.45E+01	-0.638497565	8
-0.259421501	13	2.13E+00	-0.172283386	13
-0.857586421	1	2.31E+00	-0.072002233	1
-0.721294772	6	1.29E+01	-0.488770886	6
-1	9	3.60E+03	-0.827876264	9
-0.390220611	6	2.16E+00	-0.139005603	6
-0.210801898	3	6.69E-01	-0.409622146	3
-0.702380142	13	1.78E+02	-0.875931941	13
-0.478619482	13	1.91E+01	-0.338014453	13
-0.194194078	5	7.07E-01	0.018612639	5
0	1	3.73E-01	0	1
0.393664419	36	1.62E-06	-0.735977126	36
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-0.224443485	7	9.51E-01	-0.142717449	7
-0.702461937	20	2.73E+03	-0.065604562	20
-0.095273635	13	4.13E-01	-0.040936504	13
-0.041578724	10	2.76E-01	0.002245285	10
-0.096892286	12	4.23E-01	0.04079936	12
-0.161555248	4	5.85E-01	0.215318245	4
0.046929362	16	7.36E-02	0.070451786	16
0.691211767	7	3.70E-03	0.051935696	7
0.03748823	12	1.21E-01	0.038818049	12

0.017953491	3	3.05E-01	0.004065768	3
-0.663541397	4	4.56E+00	-1	4
0.844008349	3	1.78E-02	0.061983022	3
0.032582879	10	1.52E-01	0.009357441	10
-0.085185157	34	2.73E-01	-0.122074669	34
0.261413242	6	6.38E-02	0.008117434	6
-0.080414088	8	3.90E-01	0.112404025	8
-0.138669352	12	6.25E-01	0.359201104	12
-0.015395532	6	2.85E-01	-0.08350125	6
0.021574179	17	9.16E-02	-0.053000649	17
-0.826603125	5	1.42E+01	-0.274417909	5
-0.399935457	8	3.34E+00	-0.465494779	8
0.059331451	5	2.12E-01	-0.213998486	5
3	13	8.21E-14	-0.861963737	13
0.005021542	3	3.18E-01	-0.000325545	3
-0.347818993	7	2.01E+00	-0.353406297	7
-0.054845362	29	1.58E-01	1	29
-0.124808096	4	5.03E-01	0	4
-0.099918906	6	4.50E-01	-0.103281193	6
-0.030695254	21	1.45E-01	-0.002939811	21
0	4	3.02E-01	0.000356769	4
0.175980114	14	2.28E-02	-0.269521397	14
0	1	3.73E-01	0	1
-0.15541219	20	9.37E-01	-0.074203392	20
-0.02193662	7	2.79E-01	-0.029656927	7
-0.05541978	6	3.53E-01	0	6
0.080838645	21	2.64E-02	0.029322724	21
0	2	3.48E-01	0.019066056	2
-0.054455355	18	2.31E-01	-0.023059183	18
-0.168002302	9	7.31E-01	-0.094259629	9
-0.036352157	1	4.03E-01	0.001199717	1
-0.542076921	8	8.66E+00	-0.238401646	8
-0.456825755	11	9.70E+00	-0.351074911	11
0.652788329	7	4.67E-03	-0.532179432	7
-0.221345707	11	1.26E+00	-0.201607925	11
0.052473591	21	4.07E-02	-0.791563495	21
3	6	4.67E-08	0.01468623	6
-0.061172625	2	4.12E-01	-0.069613507	2
0.008169717	7	2.32E-01	-0.042405735	7
-0.649910541	5	6.16E+00	-0.383257448	5
-0.11301683	5	4.81E-01	-0.046399227	5
0.223663644	3	1.50E-01	-1	3
-0.120824451	4	4.95E-01	-0.813129953	4
-2	4	7.15E+02	-1	4
-2	9	3.62E+04	-0.648540142	9
-0.465675712	8	5.19E+00	-1	8
-2	6	5.20E+03	-2	6

-0.964762971	5	2.75E+01	-0.240427555	5
0	3	3.24E-01	-0.052042464	3
0.084374085	3	2.42E-01	-0.003777213	3
1	13	2.15E-07	-0.484106687	13
-0.340055243	5	1.41E+00	-0.295758689	5
0.027659101	9	1.73E-01	0.006444002	9
-0.006772381	5	2.90E-01	0.007397657	5
-0.215478322	11	1.19E+00	0.227588905	11
0.045954308	31	1.64E-02	-0.029301848	31
0.412134838	9	1.02E-02	0.199106645	9
0.09490357	7	1.37E-01	0.070127241	7
-0.018068333	2	3.66E-01	-0.013776112	2
-0.037640235	8	2.93E-01	-0.031960164	8
-0.319838391	11	2.95E+00	-0.343209573	11
-0.044118691	4	3.62E-01	-0.192070357	4
-0.480631054	12	1.52E+01	0.228330131	12
-1	14	1.03E+05	0.044842866	14
-0.38967268	5	1.79E+00	-0.420364836	5
-0.321929136	12	3.46E+00	-0.180465652	12
-1	31	1.81E+08	-0.865398152	31
0.018116765	2	3.31E-01	-0.003792799	2
0	3	3.24E-01	0.002850298	3
0.086078621	5	1.87E-01	-0.043811655	5
-0.000651734	6	2.63E-01	-0.006422304	6
-0.742591284	43	7.00E+07	-0.800573116	43
-0.273775677	2	7.45E-01	-0.095510599	2
-0.522726495	6	4.42E+00	-0.24454	6
0	1	3.73E-01	-0.015814687	1
-0.108472167	3	4.70E-01	-0.069460316	3
-0.067425841	1	4.31E-01	-0.011582394	1
-0.216943476	13	1.39E+00	-0.171033893	13
-0.040100383	10	2.72E-01	-0.207719181	10
0	1	3.73E-01	0.003899221	1
-0.261282904	46	5.98E+01	-0.23748654	46
-0.279327817	8	1.48E+00	0.004134007	8
-0.985837873	2	5.40E+00	0.125521447	2
-0.005310392	6	2.70E-01	-0.000945143	6
-1	7	1.37E+03	-0.108767915	7
-1	5	1.29E+02	0.217751538	5
-1	5	1.41E+02	-0.959848569	5
-0.134049415	3	5.14E-01	-0.251477327	3
-0.004151332	5	2.87E-01	-0.002611899	5
0.283973975	1	2.04E-01	0.12790605	1
0.01847655	12	1.44E-01	0.323524206	12
-0.181308245	5	6.65E-01	-0.144370661	5
-0.386009259	4	1.47E+00	-0.006297038	4
0.09136812	6	1.60E-01	-0.099375956	6

3	9	1.24E-09	-0.163879432	9
1	6	1.73E-04	-0.202252759	6
-0.701231452	3	3.61E+00	-0.964359465	3
-0.306206019	5	1.20E+00	-0.787313569	5
0.085867034	3	2.41E-01	-0.388239648	3
-0.105394721	5	4.64E-01	0.059035377	5
-0.45085743	11	9.21E+00	0.396273588	11
0.166063174	2	2.19E-01	0.291857909	2
-0.208679595	2	6.21E-01	-0.360795335	2
-0.369432198	7	2.29E+00	-0.27622092	7
-0.308728551	9	2.06E+00	-0.14848629	9
0	4	3.02E-01	-0.162449779	4
0	2	3.48E-01	-0.006305408	2
-0.197795451	5	7.19E-01	-0.160921048	5
0.211588009	2	1.93E-01	-0.597952777	2
-0.620982236	14	1.11E+02	-1	14
0.190070729	5	1.14E-01	-0.133876407	5
0	1	3.73E-01	-0.009810468	1
-0.489928058	3	1.75E+00	0.034939708	3
-2	2	5.58E+01	-1	2
-0.587263106	19	3.72E+02	-0.857580331	19
-0.290008595	2	7.79E-01	0	2
-0.189589725	2	5.89E-01	0	2
-1	4	3.70E+01	-0.18037489	4
-0.34382414	2	9.05E-01	-0.669617002	2
-0.485127329	4	2.20E+00	-0.319406083	4
-0.088306212	3	4.39E-01	-0.152409059	3
-0.597133341	10	2.38E+01	-0.554820332	10
-0.50330168	5	3.07E+00	-0.407585543	5
-0.216955654	14	1.50E+00	-0.079603621	14
0	2	3.48E-01	-0.01709783	2
0	1	3.73E-01	-0.374969692	1
-1	6	1.15E+02	-1	6
-0.295880823	12	2.71E+00	-0.535628123	12
-0.725550038	3	3.92E+00	-0.557993406	3
-0.165975831	3	5.73E-01	-0.012670646	3
-0.018290573	1	3.88E-01	0	1
-1	4	5.23E+01	-0.944976191	4
-1	19	2.86E+06	-0.839473495	19
-2	2	4.16E+01	-1	2
-2	1	1.66E+01	-2	1
-2	6	1.01E+03	-1	6
-0.460223766	4	1.99E+00	-0.528304392	4
-0.138485053	4	5.32E-01	-0.423674151	4
-0.131898487	5	5.26E-01	-0.716260178	5
0.421412883	6	2.69E-02	-0.029193321	6
-0.630865538	3	2.83E+00	-0.561863957	3

-0.014604591	3	3.41E-01	-0.096094914	3
-0.87745745	5	1.81E+01	-0.484662077	5
-0.022583025	3	3.50E-01	-0.33077265	3
-0.831621941	20	1.79E+04	-0.227195671	20
-0.471484844	7	4.25E+00	-0.500188872	7
-0.7470088	49	9.84E+08	-0.377620597	49
-1	6	1.39E+02	-0.571134731	6
0.428508294	10	6.33E-03	-0.626217407	10
-1	3	2.07E+01	-2	3
-0.389560598	6	2.15E+00	0.359136793	6
0.325482959	8	2.56E-02	0.436163107	8
-0.033740997	11	2.46E-01	0.066537911	11
-0.341744741	12	4.16E+00	0.057433121	12
-0.295179813	12	2.70E+00	-0.063977918	12
0.2108379	45	2.42E-05	-0.097060749	45
0.402931402	16	1.04E-03	-0.726281588	16
0.067613638	38	4.57E-03	0.34348367	38
-0.964047174	4	1.56E+01	-0.055608414	4
2	7	1.47E-05	0.128834728	7
0.151101482	14	2.98E-02	-0.656838028	14
-0.546645311	18	1.58E+02	-0.974525968	18
-0.179566593	3	6.01E-01	-0.212279815	3
-0.902419112	9	1.64E+02	-0.611736107	9
0.966316859	15	2.50E-06	2	15
-0.017231244	1	3.87E-01	0.135784361	1
-0.280060596	2	7.58E-01	0.681684745	2
-0.405268058	5	1.93E+00	0.619326071	5
-0.710636168	11	8.79E+01	0.393182261	11
-0.007525903	11	1.96E-01	-0.209488532	11
-0.077237568	10	3.67E-01	-0.047258259	10
-0.007603958	5	2.92E-01	0.069078127	5
0.01180565	2	3.36E-01	0.595076036	2
-0.793529367	18	4.19E+03	0.19083174	18
-0.64989659	13	1.06E+02	-0.526634087	13
-1	6	8.60E+01	0.410177316	6
-0.326445003	6	1.53E+00	2	6
0.450752852	23	4.53E-05	0.299135123	23
0.262846847	2	1.67E-01	0.059152618	2
0.000410773	7	2.43E-01	0.180270009	7
-0.822138948	17	3.84E+03	0.224283536	17
0.428218829	13	2.21E-03	0.465846298	13
-0.038656158	5	3.38E-01	0.102989984	5
-1	2	1.65E+01	-0.406690661	2
-0.386110564	11	5.25E+00	-0.33492959	11
-0.482675288	6	3.56E+00	0.757084407	6
0.432712951	7	1.77E-02	0.883124186	7
0.006109266	3	3.17E-01	0.031588444	3

0.366983156	57	4.58E-09	3	57
0.1853124	11	3.68E-02	0.535115188	11
-0.00854139	3	3.34E-01	-0.066704148	3
-0.361195267	10	3.58E+00	-0.319090516	10
-0.695626244	20	2.47E+03	-0.647269755	20
-0.400939467	15	1.29E+01	-0.358207314	15
-0.484891974	7	4.61E+00	-0.333001536	7
0.137145816	28	3.64E-03	-0.02700138	28
0	3	3.24E-01	-0.000359135	3
-0.221258299	17	1.96E+00	-0.073347002	17
0	5	2.81E-01	0	5
-0.018669038	5	3.07E-01	-0.153539976	5
-0.798807626	6	1.96E+01	-0.074967891	6
-0.142409772	2	5.17E-01	-0.013892384	2
-0.821898067	14	9.40E+02	-0.605014308	14
0.114042726	6	1.41E-01	-0.215471249	6
-0.480997697	3	1.69E+00	-0.994897199	3
-0.519788774	9	9.77E+00	-0.138905005	9
-0.050413813	2	4.00E-01	0	2
0.219108099	3	1.53E-01	-1	3
-0.747523353	8	3.44E+01	-0.017330426	8
-0.197266215	3	6.38E-01	-0.019292224	3
-0.000298794	11	1.84E-01	0	11
0	5	2.81E-01	0	5
-0.360702415	9	3.02E+00	-0.540176302	9
-0.651410316	1	1.49E+00	-0.823893437	1
-0.242697726	6	9.72E-01	-0.671461297	6
0	6	2.62E-01	0	6
0	7	2.44E-01	0	7
0	5	2.81E-01	0	5
0	6	2.62E-01	0	6
0	7	2.44E-01	0	7
0	5	2.81E-01	0	5
0.082321176	21	2.58E-02	-0.181996696	21
-0.331943815	10	2.83E+00	-0.144732825	10
0	8	2.27E-01	-0.00051491	8
-0.079573327	14	3.47E-01	-0.039105309	14
-0.441532265	7	3.54E+00	-0.544280298	7
0.244588843	16	6.93E-03	-0.312108746	16
-0.065421667	5	3.84E-01	-0.247334683	5
-0.407966151	5	1.95E+00	-0.39183439	5
0	2	3.48E-01	-0.172205872	2
-0.140089337	21	7.66E-01	0.652391777	21
-0.124113297	37	7.11E-01	0.319075767	37
-0.145373956	6	5.75E-01	-0.063843715	6
-0.210841151	4	7.15E-01	0.027990011	4
-0.097189319	4	4.49E-01	-0.002323988	4

-0.214967605	16	1.69E+00	-0.255695917	16
-0.628060033	11	4.29E+01	-0.554767209	11
-0.041579811	5	3.43E-01	0.259468818	5
0.03672277	13	1.11E-01	-0.294856451	13
0.042081313	2	3.09E-01	-0.048576764	2
0.354507875	5	5.22E-02	0	5
-0.475135667	18	6.13E+01	-0.701849332	18
-1	3	1.14E+01	-0.426531117	3
-0.242054027	43	2.50E+01	-0.069194264	43
-0.17598961	4	6.20E-01	0.095708174	4
0.412913225	21	1.68E-04	-0.436700477	21
-0.433180731	7	3.37E+00	-0.111316923	7
-0.206766541	20	1.98E+00	-0.199015728	20
-0.137032233	11	6.04E-01	-0.149920946	11
-3	8	5.77E+06	0.850700402	8
-0.446652663	16	2.69E+01	-0.669338096	16
-1	4	7.08E+01	-0.300002058	4
-0.002953241	10	2.02E-01	-0.43042582	10
-1	14	2.36E+04	-0.504566679	14
-0.039790718	15	2.17E-01	-0.262569631	15
0.552952669	12	9.81E-04	-0.381839117	12
0.251013545	1	2.19E-01	-0.380691881	1
-0.52516241	10	1.34E+01	0.046031686	10
-0.234474679	4	7.88E-01	-0.150478097	4
-2	8	6.98E+03	-1	8
0.01679485	2	3.32E-01	-0.023825995	2
0.155794122	4	1.59E-01	-0.053358063	4
-0.180388136	5	6.62E-01	-0.066426545	5
-0.635982998	14	1.30E+02	-0.315009665	14
-1	31	3.08E+08	-0.165989033	31
0.254028537	28	3.59E-04	-0.043468223	28
-0.669902246	7	1.41E+01	0.54587636	7
-0.158402249	6	6.17E-01	-0.073247492	6
-0.666306568	7	1.38E+01	0.31500891	7
-0.862673388	18	1.05E+04	0.086900803	18
-0.766001467	23	2.51E+04	-0.409989003	23
-0.745094898	12	1.80E+02	-0.692954036	12
-0.435576808	7	3.42E+00	-0.290550262	7
-0.085259479	3	4.34E-01	-0.44887144	3
0.048207932	42	5.06E-03	-0.883785503	42
-0.372628518	10	3.93E+00	0.424064267	10
-0.450500591	15	2.25E+01	0.423345119	15
-0.224087083	5	8.15E-01	-0.167795245	5
0	1	3.73E-01	-0.013275628	1
-0.215665404	11	1.20E+00	0.092940895	11
-0.286993758	8	1.56E+00	-0.17983436	8
-0.915997037	6	3.70E+01	-0.225233599	6

-1	27	7.99E+09	0.428171363	27
-0.230892248	18	2.40E+00	-0.136785359	18
-0.090100686	2	4.47E-01	-0.060706845	2
-0.66461966	16	3.65E+02	-0.074742676	16
-0.503678404	10	1.12E+01	-0.160702975	10
-0.163138225	23	1.17E+00	0.961522408	23
-0.564118836	10	1.83E+01	-0.914117405	10
-0.813295723	4	8.43E+00	0.336689596	4
-1	6	1.40E+02	-0.451858151	6
-1	4	1.09E+02	0.132631767	4
-0.683142484	6	1.05E+01	-0.345524566	6
-1	11	1.19E+04	-1	11
-0.839799637	16	2.97E+03	-1	16
-0.819838344	22	3.84E+04	-0.276957178	22
-0.155959705	5	5.90E-01	-0.3689973	5
-2	17	5.71E+09	-2	17
-0.587911646	7	8.60E+00	-2	7
0.792025897	6	3.62E-03	-1	6
0.108979812	16	3.51E-02	0.303085273	16
-0.708165899	10	5.80E+01	-0.177571416	10
-0.65301083	15	2.22E+02	-0.261148046	15
-0.831610067	9	9.73E+01	-0.312381601	9
-0.480779888	15	3.17E+01	0.317352925	15
-0.303899704	10	2.26E+00	0.321183985	10
-0.805995995	8	5.10E+01	0.368287496	8
-0.10684172	15	4.63E-01	-0.110134468	15
0.075139835	11	9.58E-02	-1	11
-0.198642272	9	9.16E-01	-0.450019603	9
-0.142965746	7	5.80E-01	-0.306223303	7
-1	16	3.23E+04	-0.712175219	16
-0.303676153	12	2.92E+00	-0.19527284	12
-0.832762045	7	3.79E+01	-0.607130987	7
-0.627948904	6	7.80E+00	-0.349809773	6
-0.42633165	5	2.13E+00	-0.136470791	5
-0.330962851	10	2.81E+00	-0.482734324	10
-0.176666962	15	1.02E+00	-0.319261832	15
-1	29	2.91E+09	-0.472302728	29
-0.668859654	9	2.93E+01	1	9
0.32465236	11	1.10E-02	0.108617636	11
-0.335837246	11	3.39E+00	0.527072029	11
0.123244296	5	1.57E-01	0.072394212	5
-0.453699792	10	7.53E+00	0.092222963	10
-0.016961915	4	3.23E-01	0.078653774	4
-0.334486543	5	1.38E+00	0.030939634	5
0.309176937	3	1.12E-01	0.130110993	3
-0.455622397	15	2.39E+01	0.258996595	15
0.668673598	8	2.55E-03	0.435248167	8

-0.115708483	5	4.87E-01	0.083986482	5
0.028930138	18	7.63E-02	1	18
0.020426635	1	3.57E-01	0.09186345	1
-0.560369041	16	1.05E+02	-0.77290305	16
-0.137700209	12	6.20E-01	2	12
-0.081950627	1	4.44E-01	0.741353944	1
-0.320005639	3	9.73E-01	0.984623743	3
-0.195784294	26	2.39E+00	-0.190277706	26
0	2	3.48E-01	0	2
0	2	3.48E-01	0	2
-0.197123364	22	1.94E+00	-0.469191391	22
-0.689784628	5	7.44E+00	0.260105529	5
0.122212838	12	5.47E-02	1	12
-0.577285986	5	4.36E+00	-0.012792131	5
-0.966765325	11	8.12E+02	-0.804021973	11
-2	7	1.70E+05	-2	7
-0.01089619	10	2.15E-01	-0.288154288	10
0.045340087	2	3.06E-01	-0.152608482	2
-0.380181107	16	1.22E+01	-0.41158632	16
-1	8	7.36E+02	0.511317377	8
0	3	3.24E-01	-0.000561613	3
-1	20	7.04E+05	-1	20
-1	8	1.42E+03	-0.860982847	8
-0.054867083	3	3.91E-01	0.013021378	3
0.359123787	9	1.50E-02	-0.490229119	9
-0.138698955	18	7.06E-01	0.049034703	18
1	44	1.34E-17	-0.553887965	44
-0.966266923	12	1.42E+03	-2	12
-2	4	2.19E+02	-1	4
-0.754401832	38	1.19E+07	0.552277616	38
-0.503261765	27	9.17E+02	2	27
1	14	1.73E-06	-0.389131824	14
-0.853691365	3	6.10E+00	-0.738919795	3
-0.318595197	9	2.22E+00	-0.465376471	9
-1	7	7.56E+02	-0.743784195	7
-0.691520249	7	1.61E+01	-0.701014839	7
-0.562689451	50	2.72E+06	-0.482031831	50
-0.352091589	16	8.70E+00	-0.483566271	16
-0.062265277	3	4.01E-01	0.361013133	3
-0.170493931	4	6.06E-01	0.997464755	4
-0.63715916	13	9.29E+01	-0.512796392	13
0.111941187	3	2.20E-01	-0.265746049	3
-0.022969767	4	3.32E-01	-0.039630475	4
-0.541280524	3	2.08E+00	-0.406136832	3
-1	12	7.09E+03	-0.529893144	12
-0.288983267	21	7.40E+00	0.083591814	21
-0.518708966	14	3.72E+01	-0.95110676	14

-0.868698456	20	3.08E+04	-0.039486522	20
-0.268994427	6	1.12E+00	-0.183303054	6
0.502894387	8	7.76E-03	-0.326055269	8
-1	7	4.02E+02	-0.946843701	7
-0.186952554	4	6.49E-01	-0.193189757	4
-0.757535414	13	3.09E+02	-0.930283568	13
-0.451084897	6	3.00E+00	-1	6
-0.411323096	7	2.95E+00	-0.381036036	7
-0.249391763	3	7.64E-01	-0.091423815	3
-0.393113705	4	1.51E+00	0	4
-0.775065551	2	3.01E+00	-0.53997715	2
0	1	3.73E-01	-0.019554675	1
-0.666644763	7	1.39E+01	-0.660017682	7
-0.099536117	3	4.56E-01	-0.201355875	3
-1	1	5.50E+00	-0.964839507	1
-0.529065655	10	1.38E+01	-0.667303859	10
-0.060241622	3	3.98E-01	-0.074433134	3
-1	2	1.27E+01	-1	2
-2	12	7.67E+07	-2	12
-0.015899048	2	3.63E-01	-0.084963482	2
0.038593251	6	2.13E-01	-0.012160247	6
0	1	3.73E-01	0	1
-0.027870613	2	3.76E-01	-0.318489547	2
-0.195259535	4	6.71E-01	-0.284896987	4
-0.132067564	3	5.10E-01	-0.100576675	3
-0.364093037	1	8.10E-01	-0.022178915	1
-0.791959119	7	2.96E+01	-0.213188303	7
-0.209160752	2	6.22E-01	-0.029256086	2
0	2	3.48E-01	-0.065460354	2
-0.080184106	4	4.19E-01	0.002793494	4
-0.305313334	18	6.44E+00	0.606842933	18
-0.977396603	6	5.16E+01	-0.578269475	6
-0.056054052	5	3.67E-01	-0.182765734	5
-0.638597147	17	3.79E+02	-0.418529781	17
-0.230232194	5	8.39E-01	-0.141916595	5
0.029143526	6	2.24E-01	-0.562859243	6
0.177083515	33	6.48E-04	2	33
-0.81098526	3	5.26E+00	0.225806401	3
-1	1	3.79E+00	-0.069948221	1
-0.086434877	7	4.12E-01	-0.218894028	7
-0.006915617	10	2.09E-01	-0.159952792	10
-0.031241776	5	3.26E-01	-0.080611247	5
-0.403770354	4	1.58E+00	-0.232401483	4
-2	4	1.58E+02	-1	4
-0.031472965	28	1.03E-01	0.756902159	28
-3	7	8.06E+06	-2	7
-1	16	3.32E+05	-2	16

0.720409267	80	1.89E-20	-1	80
-0.339202757	49	1.11E+03	-2	49
-0.602982999	5	4.93E+00	-0.996760146	5
-0.063676354	41	1.34E-01	-0.320710084	41
-0.121387882	42	6.92E-01	1	42
0.142515116	8	8.73E-02	-0.126650882	8
-0.975188711	6	5.09E+01	-0.658267335	6
-0.225283626	14	1.64E+00	-0.2497157	14
-0.354698519	3	1.10E+00	-0.056173877	3
0.004621398	6	2.55E-01	-0.076523412	6
0.448102542	11	3.76E-03	-1	11
-0.427055478	2	1.14E+00	-0.46747958	2
-0.616361893	9	1.99E+01	-0.159225918	9
-0.883331765	18	1.38E+04	-0.590503693	18
-0.54569014	10	1.58E+01	-0.192932359	10
-0.834311096	20	1.87E+04	-0.984956355	20
0	1	3.73E-01	0	1
-0.738240674	10	7.39E+01	-0.442522	10
-0.291436095	9	1.82E+00	-0.192010014	9
0	1	3.73E-01	0	1
0	2	3.48E-01	-0.052002097	2
-0.004035856	5	2.87E-01	-0.289315563	5
-0.316326618	6	1.45E+00	-0.155188327	6
-0.123746697	2	4.91E-01	-0.150019106	2
-0.880644915	6	3.06E+01	-0.484588767	6
-0.415540859	6	2.47E+00	-0.424285668	6
-0.063673117	4	3.92E-01	0	4
-0.587161459	7	8.57E+00	-0.398918682	7
-0.812330856	3	5.29E+00	-0.04264485	3
0.212367652	4	1.27E-01	-0.689895513	4
0	2	3.48E-01	0	2
-0.259700715	4	8.74E-01	-0.122390935	4
-1	6	3.32E+02	-1	6
-2	6	7.18E+03	-0.959603082	6
-1	5	6.59E+01	-0.898346671	5
-0.372150872	13	6.58E+00	-0.604957805	13
-0.516418285	6	4.27E+00	-0.107391363	6
-2	4	4.27E+02	-0.855650008	4
-0.311510528	6	1.41E+00	-0.228735979	6
0.262282677	4	1.03E-01	0	4
-0.679417441	3	3.35E+00	-0.311764692	3
0.539388323	3	5.07E-02	-0.373202317	3
0.489191294	9	5.76E-03	0.533814033	9
0.361469634	1	1.73E-01	0.208848376	1
-0.42229195	16	2.01E+01	-0.356624605	16
-0.297543697	9	1.90E+00	0.122643691	9
-0.639818252	8	1.67E+01	0.390748799	8

-0.110864821	8	4.79E-01	0.091447036	8
-0.047924575	13	2.58E-01	0.346304569	13
-0.008158529	4	3.12E-01	-0.043033602	4
-0.744816127	5	9.66E+00	-1	5
-0.197392276	4	6.77E-01	-0.250997313	4
-1	5	5.88E+01	-0.481934542	5
-2	23	2.43E+13	-1	23
-0.156449792	4	5.73E-01	-0.060932202	4
-0.934213842	11	6.12E+02	-1	11
-0.282319719	4	9.59E-01	-0.90269201	4
-0.191412276	56	1.13E+01	-0.414800823	56
-0.449304228	7	3.71E+00	-0.343767437	7
0	6	2.62E-01	0	6
0	4	3.02E-01	0	4
0	6	2.62E-01	0	6
0	3	3.24E-01	-0.008262439	3
-0.496086339	13	2.27E+01	-0.06987288	13
-0.007798076	3	3.33E-01	0	3
0.268669214	3	1.29E-01	-0.371295634	3
-2	6	4.92E+03	-1	6
-0.944508433	12	1.16E+03	-1	12
-0.717350991	6	1.26E+01	-0.63065588	6
-1	22	1.12E+07	-1	22
-0.73282791	9	4.70E+01	-0.908836887	9
-1	9	5.47E+03	-1	9
0.304770637	10	1.71E-02	-0.035921525	10
1	33	4.47E-13	-0.9360156	33
0.494955956	13	1.14E-03	-0.212948678	13
0.530987093	5	2.26E-02	-0.597851884	5
0.099297535	9	1.02E-01	-0.492147138	9
-0.265240675	4	8.94E-01	-0.240718033	4
-0.376369461	20	2.35E+01	0.662771336	20
0.26316558	7	4.95E-02	-0.465692474	7
-0.380401162	3	1.20E+00	0.245216793	3
0.38062869	17	9.88E-04	-0.167756657	17
-2	4	7.57E+02	-2	4
-0.159908202	4	5.81E-01	0.997127793	4
-1	2	8.60E+00	-0.026451803	2
-0.293603768	1	6.97E-01	0.011767635	1
0.175582452	8	6.99E-02	0.071998637	8
-1	7	8.90E+02	-0.913926255	7
0.888167106	2	2.94E-02	0.600471791	2
0.096782578	3	2.32E-01	0.725257027	3
-0.12388994	5	5.06E-01	0.141900446	5
-0.965709092	9	2.61E+02	-1	9
-1	18	4.79E+06	-0.968238855	18
-0.650792399	10	3.66E+01	-0.953869092	10

-0.65915286	27	1.82E+04	0.745043227	27
0	1	3.73E-01	0.020677654	1
-0.247821702	7	1.10E+00	-0.512685051	7
-0.144267067	5	5.58E-01	-0.108250465	5
-0.637641834	4	4.10E+00	-0.530303726	4
-0.67509144	25	1.17E+04	-0.53671871	25
-0.417001012	10	5.61E+00	0.00418617	10
-0.559770869	12	3.19E+01	-0.200934681	12
-1	16	1.38E+05	-1	16
-2	24	2.37E+12	-2	24
-2	6	6.83E+03	-1	6
-2	6	6.14E+04	-2	6
-3	17	2.25E+13	-2	17
-0.401433831	18	2.31E+01	1	18
-0.137038809	2	5.09E-01	-1	2
-0.604580374	11	3.50E+01	0.125785763	11
-0.222805968	9	1.09E+00	0.581801594	9
2	6	5.35E-06	2	6
-0.568195516	7	7.64E+00	0.1193704	7
-0.077952501	9	3.76E-01	-0.436945132	9
-0.495067569	4	2.29E+00	0.103212002	4
-0.904425603	12	7.97E+02	1	12
-0.610027995	12	5.10E+01	-0.007325787	12
-0.799893412	13	4.72E+02	-1	13
-2	15	9.35E+06	-2	15
-0.747561324	42	5.33E+07	-0.656266908	42
-0.695749674	17	7.79E+02	-0.28319857	17
-0.271784769	45	7.49E+01	-0.474329532	45
0.011701039	3	3.11E-01	0.481130528	3
0.269169332	5	7.83E-02	-0.794210059	5
-0.427872443	4	1.74E+00	-0.659921762	4
-0.003516227	6	2.67E-01	-0.216303216	6
-0.885302285	14	1.85E+03	-0.836814493	14
0	1	3.73E-01	-0.025967153	1
-0.918545742	11	5.34E+02	-0.583117871	11
-0.035281268	2	3.84E-01	-0.075407323	2
-0.65173354	15	2.19E+02	-0.365002619	15
-0.557341246	8	9.60E+00	-0.495375336	8
-0.387655742	11	5.32E+00	-0.525976714	11
-0.693187365	9	3.51E+01	0.181306603	9
-0.498338911	7	5.00E+00	0.352509043	7
0.938029523	10	1.06E-04	-0.06521734	10
0.501613465	2	8.61E-02	0.017898098	2
0	1	3.73E-01	0	1
-0.530264766	13	3.19E+01	-0.508570565	13
-1	24	2.24E+09	-1	24
-0.855240667	25	2.93E+05	-0.125450676	25

-1	2	7.32E+00	-1	2
-0.769837066	19	4.72E+03	-0.004728851	19
-0.440886699	11	8.45E+00	-0.599703517	11
-0.437324617	4	1.81E+00	-0.193479702	4
-1	7	1.08E+02	-1	7
-0.617492975	6	7.37E+00	-0.948810388	6
0.609270697	10	1.48E-03	-0.616936178	10
-0.090432542	16	3.81E-01	-0.522928285	16
-0.080401145	9	3.83E-01	0.044165065	9
-0.753461927	14	4.53E+02	0.016210084	14
-1	20	4.05E+06	0.052556756	20
-0.362010662	18	1.37E+01	2	18
1	18	3.21E-09	0.881415628	18
0.43330287	4	5.12E-02	-1	4
-0.018198634	7	2.73E-01	0.093428837	7
1	17	2.52E-07	1	17
0.413190348	6	2.81E-02	0.158971463	6
-0.335537376	10	2.92E+00	-0.169838226	10
0.000419035	1	3.73E-01	-0.021874564	1
-0.49454087	29	1.29E+03	-0.781784918	29
-0.117928083	6	4.95E-01	0.202342754	6
-0.915849932	5	2.18E+01	-0.478805929	5
-0.558058765	4	2.96E+00	-0.203312243	4
-1	7	1.71E+02	-0.712133762	7
-0.810637759	36	2.09E+07	0.910096489	36
-0.442375919	1	9.56E-01	0.345375153	1
-0.887296665	4	1.14E+01	-0.268729141	4
0.227249763	18	5.49E-03	0.569961259	18
-0.529128769	99	6.44E+11	0.756869032	99
-0.203786667	15	1.39E+00	1	15
-0.075349505	8	3.77E-01	-0.310557897	8
-0.984133399	22	5.23E+05	-0.424699621	22
-0.720942135	17	1.07E+03	-0.568588224	17
-0.076764964	5	4.05E-01	0.12527586	5
0.527224266	11	1.89E-03	0.102790002	11
0.043092344	19	5.73E-02	-0.109249025	19
-0.275800212	118	2.60E+05	0.621485019	118
-0.206783822	1	5.79E-01	0.115117075	1
-0.81131195	57	3.41E+11	0.594134402	57
-0.985375783	5	3.03E+01	0.351368226	5
-0.776045268	5	1.12E+01	-0.138006755	5
-0.040744066	5	3.41E-01	-0.081005428	5
-0.178321276	10	8.26E-01	-0.090470029	10
-0.008945597	4	3.13E-01	-0.080306031	4
0.109010163	4	1.93E-01	-0.014129123	4
0.198031204	11	3.29E-02	0.108555384	11
0.104240698	17	3.23E-02	0.339717266	17

-0.243751966	13	1.82E+00	-0.085664977	13
-0.351158528	11	3.88E+00	-0.365427106	11
-0.635217217	13	9.11E+01	-0.098259536	13
-1	13	1.81E+05	-1	13
-0.503361978	10	1.12E+01	-0.260591186	10
-0.260933213	4	8.78E-01	0.013288407	4
-1	6	8.34E+02	0.286833339	6
-0.396817564	21	3.83E+01	0.544149336	21
0.036288986	1	3.45E-01	0.009396422	1
-0.32088048	35	8.49E+01	0.628334072	35
-0.809192224	15	1.30E+03	-0.102586124	15
0.881128595	12	4.58E-05	-0.109984402	12
-0.588854428	19	3.80E+02	1	19
-2	6	2.61E+04	-0.39019555	6
-0.808931383	7	3.28E+01	-0.949083691	7
-0.33495549	19	1.11E+01	0.801519523	19
-1	11	1.63E+03	-0.359945077	11
-0.155313175	2	5.36E-01	-0.177478614	2
-0.298316895	15	4.04E+00	-0.07012959	15
-0.152414367	13	7.32E-01	-0.109811752	13
0	2	3.48E-01	0.021212679	2
-0.752774147	21	8.67E+03	-0.139014416	21
-2	14	3.79E+07	1	14
-2	19	3.81E+11	0.184956783	19
-0.11523566	1	4.77E-01	-0.103148256	1
-0.006716189	2	3.54E-01	0.013529388	2
0.327415419	22	4.64E-04	0.955295145	22
-0.19484472	6	7.51E-01	-0.088477172	6
-0.693026708	15	3.50E+02	-0.297830893	15
-1	8	2.48E+03	-0.937094322	8
-0.354671179	10	3.40E+00	-0.038685974	10
-0.481099496	12	1.53E+01	0.309294431	12
-0.545680383	4	2.82E+00	-0.335958811	4
-0.855211194	10	1.89E+02	0.222171713	10
-0.493045745	8	6.23E+00	-0.295530195	8
0.14803661	11	5.09E-02	-0.206616943	11
-1	7	1.03E+03	-0.529520844	7
-0.134892611	9	5.73E-01	-0.123431725	9
-2	12	3.89E+06	0.16998576	12
0.107543331	7	1.27E-01	1	7
0.070226002	8	1.42E-01	2	8
-0.581490399	7	8.28E+00	0.97234875	7
0.768450601	63	2.48E-17	2	63
-0.362391041	4	1.33E+00	-0.49201822	4
-0.971578249	9	2.73E+02	-1	9
-0.215954338	3	6.81E-01	0.278431082	3
-0.084620702	16	3.55E-01	-0.067484015	16

-0.03589508	5	3.33E-01	0.169500485	5
0.367028741	12	5.56E-03	-1	12
-0.336141193	9	2.52E+00	0.082176105	9
0.038864548	26	3.10E-02	0.698239745	26
-2	12	1.91E+07	-1	12
-0.96530666	2	5.10E+00	-0.051612592	2
-0.057756466	8	3.35E-01	-0.652267017	8
-0.240063089	32	9.10E+00	-0.437863524	32
2	37	4.33E-21	-2	37
2	45	1.70E-30	-2	45
0.723640903	8	1.76E-03	-0.820676525	8
0.244860407	10	2.77E-02	-0.206181892	10
-3	13	1.37E+11	-2	13
-1	7	2.66E+02	-3	7
-0.513218341	3	1.89E+00	-0.638352857	3
-2	5	6.58E+03	-2	5
-1	11	3.36E+04	-2	11
-0.545593684	11	2.10E+01	-0.883129769	11
-0.496565034	3	1.79E+00	-0.293025946	3
-0.413888766	3	1.34E+00	-0.570146073	3
0	1	3.73E-01	-0.027917485	1
-0.540805456	11	2.01E+01	-0.311764642	11
0.070588092	5	2.01E-01	-0.000936107	5
-0.606751469	11	3.57E+01	-0.271469227	11
-2	6	3.04E+04	-0.936276831	6
-0.457462182	7	3.90E+00	-0.513805377	7
-0.126847178	7	5.26E-01	-0.200650893	7
-0.022331413	6	2.96E-01	-0.157159314	6
-0.002525963	14	1.53E-01	0.030095164	14
-0.052752259	1	4.18E-01	-0.018526403	1
-0.057574096	31	1.56E-01	-0.366677717	31
0.808708172	2	3.66E-02	-0.753370984	2
-0.276431541	7	1.30E+00	-0.895997894	7
-0.766618971	3	4.52E+00	0.45443695	3
-1	9	1.60E+03	0.362923725	9
-0.288356594	15	3.61E+00	1	15
-0.928830419	5	2.32E+01	2	5
-0.991687338	7	9.94E+01	1	7
-0.441026385	7	3.53E+00	-0.506219352	7
-0.642579332	6	8.44E+00	-0.015498789	6
-0.881828865	16	4.91E+03	-0.568265004	16
-1	11	2.04E+03	-1	11
2	29	3.63E-21	-0.804433896	29
-0.382156915	12	6.07E+00	-0.65144876	12
-0.691214054	2	2.38E+00	-0.262478338	2
-0.919072707	5	2.21E+01	-0.269053178	5
0.194638813	11	3.39E-02	0.21604368	11

0.24156889	7	5.65E-02	0.678331585	7
0.355364103	5	5.20E-02	-0.512939373	5
-0.188806923	3	6.20E-01	0.060350992	3
-0.185922693	4	6.46E-01	-0.282827382	4
0.040074963	6	2.11E-01	-0.219889749	6
-0.252271108	9	1.36E+00	-0.34649734	9
-0.388528029	43	1.93E+03	0.896468062	43
0	1	3.73E-01	0	1
-0.066843887	13	3.11E-01	-0.002042545	13
-0.073297889	2	4.26E-01	-0.019556906	2
-0.621118241	7	1.05E+01	-0.349831255	7
-0.641571263	9	2.40E+01	-0.830258672	9
1	14	1.05E-06	-0.682429018	14
-0.035596611	17	1.88E-01	-0.146895024	17
-0.934153545	22	2.36E+05	0.319695343	22
-1	4	3.37E+01	0.030991971	4
-0.992806382	10	5.70E+02	-0.004834789	10
-0.311435733	39	1.15E+02	-0.944503761	39
0.510559207	27	3.33E-06	-0.528628708	27
1	27	2.21E-11	-0.655646353	27
-0.4809838	2	1.33E+00	-0.185736016	2
0.18789686	8	6.44E-02	0.409598858	8
-0.14632689	3	5.36E-01	-0.023282093	3
-0.678004297	21	2.78E+03	-0.456358488	21
0.684829752	13	1.70E-04	-0.474956824	13
-1	9	4.22E+03	-0.164845062	9
-0.26323582	2	7.23E-01	0.09617038	2
1	12	4.49E-07	0.579034359	12
0.506476461	13	1.01E-03	1	13
-0.193738625	16	1.31E+00	0.46691363	16
-0.171753984	6	6.63E-01	-0.176540134	6
0	5	2.81E-01	-0.016260897	5
-1	21	2.49E+08	-1	21
0.052548222	10	1.29E-01	-0.51456678	10
-0.43465708	8	4.21E+00	-0.058446368	8
-2	5	2.07E+03	-0.151083897	5
-0.470016949	25	3.02E+02	-0.568608478	25
-0.941959342	6	4.26E+01	-0.964816465	6
-1	8	2.89E+03	-0.759789132	8
-0.015023068	4	3.21E-01	-0.02422883	4
-0.486759688	11	1.26E+01	-0.275509942	11
-1	7	1.11E+02	-0.319386416	7
-2	17	5.63E+07	-0.908120262	17
-0.941216804	12	1.12E+03	0.376663172	12
0.179241059	14	2.20E-02	-0.021032578	14
-1	20	1.67E+07	-0.327899573	20
-0.223370903	6	8.76E-01	-0.202551505	6

-1	8	3.12E+02	-0.963164098	8
0.135272664	7	1.08E-01	-0.444880866	7
-2	6	4.99E+03	-1	6
-0.659633194	7	1.33E+01	-0.456703654	7
0.163731955	2	2.20E-01	-0.210721784	2
-0.552408728	3	2.16E+00	-1	3
-1	12	8.45E+03	-1	12
0	2	3.48E-01	0	2
-0.769770923	3	4.57E+00	-0.273812754	3
-0.025663563	2	3.73E-01	-0.173890894	2
-1	8	1.13E+03	-1	8
-0.129762974	16	6.09E-01	-0.488714099	16
-0.123814441	7	5.17E-01	-0.375516075	7
-1	5	4.20E+01	-1	5
-0.519370453	10	1.28E+01	-0.81297477	10
1	7	2.45E-04	-2	7
-2	6	1.40E+03	0.690888792	6
-0.464946948	9	6.52E+00	1	9
-1	3	1.67E+01	-0.805205602	3
-1	64	1.83E+21	-1	64
-0.356944155	23	2.89E+01	0.422202704	23
-0.505548221	1	1.09E+00	0.301049881	1
0.088207967	4	2.10E-01	-0.318854161	4
-0.555698721	37	4.71E+04	0.238247547	37
-0.219091131	7	9.21E-01	-0.099411673	7
-1	30	2.26E+08	0.169740491	30
-0.860839153	2	3.82E+00	0.222775509	2
-0.975854998	5	2.89E+01	-0.483558557	5
-1	8	1.51E+03	-0.925596419	8
0.01615613	6	2.40E-01	-0.635266213	6
-1	4	2.34E+01	-0.654540322	4
-0.00391219	4	3.07E-01	-0.005052833	4
-0.09413805	5	4.40E-01	-0.081516366	5
-0.348772352	15	7.14E+00	-0.506522407	15
-1	25	8.37E+08	-1	25
-0.982128718	4	1.68E+01	-0.464174661	4
0.246515986	11	2.16E-02	-0.367782285	11
0.333477113	2	1.37E-01	0.185132561	2
-0.066087938	11	3.26E-01	-0.656344203	11
-0.63481068	11	4.55E+01	-0.610240887	11
2	1	4.85E-03	-0.534350756	1
0.387941307	8	1.68E-02	0.042353175	8
-0.268965052	5	1.01E+00	0.488379534	5
-0.100517301	5	4.53E-01	0.118487404	5
-0.259971354	13	2.14E+00	-0.60669282	13
-0.351716061	18	1.19E+01	-0.122464998	18
-0.340108573	25	2.96E+01	0.251513518	25

-0.360815858	8	2.56E+00	-0.272152015	8
-0.483560547	29	1.03E+03	0.378176041	29
-0.021422131	4	3.29E-01	0.013506297	4
-0.816822758	16	2.25E+03	-0.56118099	16
-1	3	2.04E+01	-1	3
-1	8	1.97E+02	-0.417717538	8
-1	7	1.14E+03	-1	7
-1	6	6.02E+02	-1	6
-0.364977452	7	2.23E+00	-2	7
-0.914355699	5	2.16E+01	-0.578387682	5
-0.396454447	3	1.27E+00	-0.088148011	3
-0.35267657	10	3.35E+00	-0.229130964	10
-0.199686412	40	5.95E+00	0.245249234	40
-3	3	4.91E+04	-0.878512503	3
-0.760608982	11	1.36E+02	0.38186737	11
-0.503774616	7	5.17E+00	-0.288647541	7
-0.524356341	6	4.46E+00	-0.223674974	6
-0.533994469	6	4.69E+00	-0.954808415	6
-0.725789027	31	3.30E+05	0.001287923	31
2	10	1.11E-08	1	10
1	4	1.83E-03	-0.141990606	4
0.02768688	13	1.21E-01	-1	13
-0.151241993	5	5.77E-01	-0.500937508	5
-0.320933029	4	1.12E+00	-0.100741987	4
2	15	1.71E-10	0.037387486	15
1	11	7.42E-06	-0.690552624	11
-0.028351849	26	1.07E-01	0.762294115	26
0.19227682	1	2.48E-01	1	1
-0.166709412	1	5.32E-01	0.755324601	1
-0.297198874	11	2.43E+00	0.21329057	11
-0.063382741	1	4.27E-01	-0.120700252	1
-0.358511873	2	9.43E-01	-0.17711281	2
-0.786215704	9	6.96E+01	-1	9
0.100548898	3	2.29E-01	0.093055105	3
0.075066808	3	2.50E-01	0.032576947	3
-0.878969059	13	1.04E+03	-0.432622978	13
-0.302219759	14	3.71E+00	-0.484066593	14
-0.489042828	11	1.28E+01	-0.719900041	11
0.428888708	2	1.05E-01	-0.323144005	2
0.273766339	14	8.06E-03	-0.70149375	14
0.817474151	8	9.39E-04	-0.047323674	8
-0.138788734	2	5.12E-01	1	2
0.41430694	12	3.58E-03	0.785490564	12
-0.601062965	18	3.26E+02	0.212916715	18
-0.479865088	30	1.22E+03	0.260594338	30
-0.803798867	12	3.11E+02	-0.227879591	12
-0.263393168	18	3.69E+00	-0.333420091	18

-2	2	3.41E+01	-0.828281129	2
-0.013241705	8	2.49E-01	-0.009043577	8
-0.215449686	8	9.66E-01	0.066260211	8
-0.412904243	10	5.43E+00	-0.298981864	10
-2	8	5.99E+04	-2	8
-0.161030095	4	5.83E-01	-0.056576036	4
-2	9	1.47E+05	-0.32839575	9
-1	2	6.64E+00	-0.631393959	2
0	3	3.24E-01	-0.049164891	3
-0.02734963	1	3.96E-01	0.003577252	1
-1	7	8.73E+02	0.026493833	7
-0.197600367	2	6.03E-01	-0.081741873	2
-0.022364751	1	3.91E-01	-0.16435401	1
-0.384942052	3	1.22E+00	-0.663744358	3
-0.438113948	3	1.46E+00	-0.146930056	3
-0.178715588	6	6.88E-01	-0.130084862	6
-0.4227482	3	1.39E+00	-0.077385312	3
0.083319176	19	3.27E-02	-0.372815923	19
-0.047807104	10	2.90E-01	0.462231341	10
-1	15	1.56E+04	-1	15
0.395788354	11	5.92E-03	1	11
-0.681701271	12	9.96E+01	0.434267304	12
-0.189950884	4	6.57E-01	0.212834951	4
1	16	8.71E-09	0.590183416	16
0.58107441	17	7.88E-05	-1	17
-1	5	6.47E+01	0.004782334	5
0.382190265	12	4.83E-03	0.504599272	12
-0.289957594	3	8.78E-01	-0.002399814	3
0.886936499	9	3.07E-04	0.34170667	9
-0.130392997	40	8.73E-01	-0.08709837	40
-0.217107563	3	6.83E-01	-0.061276999	3
-0.502110987	35	7.08E+03	-0.775456472	35
-0.054480734	6	3.52E-01	-0.51336369	6
-0.689669788	9	3.42E+01	-0.571526826	9
-0.543440598	10	1.55E+01	0.63057778	10
0.773724069	12	1.25E-04	0.484736625	12
1	22	4.56E-09	-1	22
0	1	3.73E-01	-0.008587802	1
-0.19715261	11	1.02E+00	-0.282343269	11
-1	14	1.08E+05	-0.441811554	14
0.159326789	2	2.23E-01	-0.816346642	2
1	16	1.14E-07	-0.66831924	16
-2	12	5.17E+06	0.263080149	12
0.003122512	11	1.79E-01	0.201097282	11
-0.829557796	14	1.02E+03	-0.761844917	14
-0.533267949	2	1.53E+00	-0.870860437	2
0.453200876	10	5.19E-03	-0.109022787	10

-0.451886241	5	2.40E+00	-0.393814504	5
-0.079342765	41	2.08E-01	0.054973326	41
0.080246056	28	1.12E-02	1	28
-0.944946869	13	2.01E+03	-0.503707658	13
0.077533918	12	8.31E-02	-0.677988717	12
-0.011789688	14	1.69E-01	-0.213745357	14
0.310585121	10	1.63E-02	-0.261169252	10
-0.896453309	6	3.33E+01	-0.853444853	6
-0.048862059	1	4.14E-01	-0.070596849	1
0.394072239	17	8.34E-04	0.327006487	17
0.172455115	12	3.42E-02	-0.097969682	12
0.042860087	12	1.15E-01	-0.018953277	12
-0.416793095	3	1.36E+00	0.469022182	3
-2	8	2.64E+06	0.185461055	8
-0.781143861	8	4.31E+01	0.844321311	8
0.653807789	8	2.82E-03	0.141989125	8
-0.673960555	17	5.92E+02	-1	17
-0.125090235	5	5.09E-01	-0.168307294	5
0.203538388	6	8.72E-02	-0.244360765	6
1	19	1.26E-10	0.554169038	19
0.714643711	2	4.76E-02	2	2
-0.616979945	15	1.48E+02	0.844061469	15
-0.407068528	11	6.30E+00	-0.173823274	11
-1	20	7.91E+05	-0.573128834	20
-0.52208522	21	2.58E+02	0.068561134	21
0	2	3.48E-01	0	2
-0.212749288	7	8.86E-01	-0.286607599	7
-0.802139436	11	1.94E+02	-0.262876267	11
-0.527026888	11	1.78E+01	-0.335117684	11
-0.193999778	14	1.17E+00	0.981406654	14
-0.024243865	15	1.82E-01	-0.954857051	15
-0.882540064	9	1.42E+02	2	9
-0.789904017	12	2.73E+02	0.649278208	12
1	7	2.21E-04	-0.44793087	7
0.786748105	35	1.53E-10	-0.342182061	35
0.284921066	81	2.30E-10	-0.348153632	81
0.213064777	10	3.57E-02	0.940420342	10
-2	3	9.72E+02	-0.62049879	3
-0.788704404	25	8.93E+04	0.073784762	25
-2	16	1.40E+07	-1	16
-1	8	2.24E+02	-0.480311103	8
-0.022399366	8	2.64E-01	-0.494459191	8
-1	11	1.25E+03	0.314430566	11
-0.714836447	15	4.47E+02	-0.164566494	15
-2	20	5.22E+08	-1	20
0.130558594	3	2.07E-01	-0.041702573	3
0.62503057	32	3.36E-08	0.634523218	32

-0.5547299	13	4.08E+01	0.680713945	13
-2	7	5.86E+05	-2	7
-2	13	1.77E+06	0.64262624	13
-0.779584777	13	3.86E+02	-0.829571811	13
0.344113467	16	2.11E-03	-1	16
0.051698853	85	5.08E-05	0.806162993	85
0.634888315	55	3.68E-13	2	55
-0.206342957	14	1.34E+00	-0.555587715	14
-0.4706026	8	5.36E+00	-0.85926531	8
-0.008618211	3	3.34E-01	-0.079875083	3
-0.252718655	5	9.34E-01	-0.248458775	5
-2	4	2.65E+02	-0.611442078	4
-0.23301153	11	1.39E+00	0.036586857	11
0.107390501	2	2.58E-01	-0.021150726	2
-0.209739162	8	9.30E-01	0.592580735	8
-1	4	8.39E+01	1	4
-0.528314035	6	4.55E+00	-0.664449799	6
-0.004594612	2	3.52E-01	0	2
-0.205524136	1	5.78E-01	-0.044481356	1
-0.285248449	5	1.09E+00	-0.685905346	5
0.371039217	11	7.34E-03	0.672290728	11
0.19333291	11	3.43E-02	0.103362764	11
-0.476173891	8	5.56E+00	0.665487158	8
-0.303704459	7	1.54E+00	0.218136695	7
-0.158866815	14	8.07E-01	-0.003762866	14
-0.146265027	11	6.55E-01	-0.102997858	11
3	31	5.79E-30	-1	31
0.383327782	4	6.28E-02	-1	4
-0.89727579	6	3.34E+01	0.546865589	6
-0.037992187	19	1.77E-01	2	19
-0.526762001	14	4.06E+01	-0.097877605	14
-0.158090829	2	5.40E-01	-0.243577174	2
-0.148145497	8	6.15E-01	-0.879610013	8
-0.149053399	7	6.02E-01	-0.180771361	7
-0.053079106	8	3.25E-01	-0.137557248	8
-1	2	1.51E+01	-1	2
-0.207570041	11	1.11E+00	-0.343788483	11
-0.341296442	10	3.05E+00	-0.578566481	10
-0.444622781	9	5.61E+00	-0.379977133	9
0	6	2.62E-01	-0.153737891	6
-0.201595739	2	6.09E-01	-0.540259204	2
-1	3	1.48E+01	-0.372670081	3
-0.115553361	5	4.87E-01	-0.069234701	5
-2	30	2.92E+16	-2	30
-0.651918089	20	1.31E+03	-0.208364481	20
0.654114692	11	6.28E-04	-0.267527177	11
-0.858188698	3	6.19E+00	-1	3

-0.137453187	32	9.09E-01	-0.174726549	32
-0.124333725	8	5.24E-01	-1	8
0.193626672	9	5.08E-02	-0.516025339	9
2	8	1.90E-06	-0.308600117	8
0.780431877	2	3.96E-02	-0.123043648	2
-0.292602841	5	1.13E+00	-1	5
-0.038944596	18	1.88E-01	-0.239832447	18
-0.613210832	20	7.43E+02	0.131710125	20
-0.569884226	5	4.21E+00	-0.126549429	5
-0.271907386	10	1.75E+00	-0.161886188	10
0.03457021	27	3.05E-02	-0.663399181	27
-0.455642685	27	3.68E+02	0.107770963	27
-0.139096805	14	6.54E-01	-0.184203036	14
-0.393463519	36	6.02E+02	0.106742573	36
0.49436994	7	1.22E-02	0.026496877	7
-0.574102552	7	7.91E+00	0.2119914	7
-1	7	9.23E+02	-0.506777497	7
-0.753492732	8	3.58E+01	-1	8
-2	2	3.00E+01	-0.831519638	2
-0.186159048	11	9.26E-01	-0.569773605	11
-0.315117395	10	2.48E+00	-0.836126178	10
-2	3	1.21E+03	-0.002261846	3
-0.454002186	20	7.29E+01	-0.675236167	20
-0.012154515	5	2.98E-01	-0.24273582	5
-0.493540753	11	1.33E+01	0.471538504	11
-0.607017695	12	4.96E+01	0.732290311	12
0.037298337	3	2.85E-01	-0.466626428	3
-0.317921361	3	9.66E-01	-0.395595832	3
-0.195880816	17	1.42E+00	-0.099407036	17
-0.074831384	6	3.93E-01	-0.179607495	6
0.412093172	13	2.60E-03	-0.43518843	13
-0.582102959	16	1.36E+02	-0.091519225	16
-0.671920572	20	1.75E+03	0.123187761	20
-0.386998469	88	6.90E+06	-0.323607956	88
-1	7	2.93E+02	-1	7
-0.75010778	4	6.51E+00	-1	4
2	4	6.74E-05	0.085192594	4
-0.147671684	12	6.80E-01	0.703837451	12
0.260566373	18	3.53E-03	-1	18
2	21	9.80E-15	0.227525456	21
0.044869854	4	2.51E-01	-0.054728763	4
-0.249154696	2	6.96E-01	-0.201806484	2
-1	1	5.55E+00	-0.3780717	1
-1	6	8.13E+02	-0.476855073	6
-1	13	1.61E+04	-0.432163717	13
-0.812858559	29	8.73E+05	0.277605895	29
0.561738313	1	1.13E-01	-0.320552452	1

-0.790514079	1	2.01E+00	-0.658702483	1
-0.315254082	2	8.36E-01	-0.692004885	2
-0.222175008	8	1.01E+00	-1	8
-1	41	7.69E+14	-1	41
-0.213685623	3	6.75E-01	-0.03625471	3
-0.197604568	17	1.45E+00	-0.118493214	17
0	3	3.24E-01	-0.086627128	3
-0.431905856	51	3.81E+04	0.240995896	51
-3	7	1.13E+06	1	7
-0.526616129	9	1.03E+01	1	9
-0.727637543	18	1.75E+03	-0.263158461	18
-0.889988221	5	1.93E+01	2	5
0.149535855	6	1.17E-01	-0.86244498	6
0.412999568	17	6.57E-04	-0.152268144	17
-0.242588721	9	1.27E+00	-0.087497726	9
-0.108009598	4	4.70E-01	-0.148463792	4
-0.377484585	19	2.00E+01	-1	19
-0.637129114	8	1.64E+01	-0.58572319	8
-0.482832435	1	1.04E+00	-0.297397943	1
-0.059496237	30	1.68E-01	-0.566161285	30
-0.030224511	19	1.59E-01	0.725467003	19
-0.404218645	11	6.15E+00	0.06305817	11
-0.734115373	6	1.38E+01	-0.166647533	6
-0.210987813	12	1.23E+00	-0.940055273	12
1	16	3.83E-07	1	16
2	10	3.31E-08	-0.75653339	10
0.455026341	9	7.40E-03	-0.098418947	9
-0.469695397	34	2.53E+03	2	34
-0.518886741	13	2.85E+01	2	13
-0.592720862	9	1.67E+01	0.474488438	9
-0.015595593	4	3.22E-01	0.002156883	4
-0.797458873	7	3.06E+01	-0.031810342	7
0.225356298	6	7.75E-02	0.527506245	6
-0.597751863	11	3.30E+01	-0.44210793	11
-0.059603834	2	4.10E-01	-0.010626642	2
-1	15	3.01E+04	-1	15
-0.828292753	24	1.13E+05	-0.639089432	24
-0.112668561	3	4.77E-01	0.225055175	3
-1	4	4.28E+01	-0.100467994	4
0.068309642	12	9.05E-02	0.724317851	12
-0.307415199	4	1.06E+00	-0.201861295	4
0.373971713	9	1.35E-02	-0.15060149	9
-0.071031554	7	3.75E-01	-0.982415905	7
0.502916175	16	3.15E-04	0.901710884	16
-0.355765415	6	1.79E+00	0.208969508	6
-2	6	2.13E+03	-0.535533264	6
-0.411605602	29	2.36E+02	0.191121107	29

-0.624788308	16	2.27E+02	-0.174630019	16
-0.251249295	8	1.23E+00	-1	8
-0.662189214	11	5.77E+01	-0.192700116	11
-0.659209215	11	5.62E+01	0.41669641	11
0.022912154	2	3.26E-01	-0.009785601	2
-0.395173437	5	1.84E+00	-0.440712724	5
-1	3	2.93E+01	-0.51741057	3
-1	9	6.29E+02	-0.248661111	9
-0.172460286	4	6.11E-01	-0.284842005	4
-1	19	1.81E+05	-0.893444589	19
0.035571031	11	1.35E-01	-0.698131242	11
-0.143664718	13	6.71E-01	0.061378272	13
0.885477668	3	1.54E-02	-0.601615723	3
-0.050486725	26	1.62E-01	-0.422449268	26
-0.399504213	17	1.86E+01	1	17
-0.941476387	26	2.36E+06	-0.66383466	26
-2	2	4.37E+01	-0.858797089	2
-3	9	5.75E+08	-2	9
-0.816488536	4	8.54E+00	-1	4
-0.002368364	6	2.65E-01	-0.145390172	6
-0.800397018	6	1.98E+01	-0.789353518	6
-1	12	8.71E+04	-2	12
-2	7	1.18E+05	-0.793208386	7
-1	4	5.49E+01	-0.92189061	4
-1	7	4.90E+02	-0.646348401	7
-0.813210831	12	3.40E+02	0.064469606	12
-0.41046403	6	2.41E+00	-0.15227717	6
-1	13	1.26E+04	0.268793044	13
-0.46863394	15	2.77E+01	-0.426486818	15
0.698252846	16	3.05E-05	-0.947697076	16
-2	21	2.14E+12	-1	21
-0.027336167	18	1.61E-01	-0.080922009	18
-0.885274222	4	1.13E+01	-2	4
-0.948382507	3	8.44E+00	-1	3
-0.478207215	2	1.32E+00	-0.647795282	2
-1	3	1.08E+01	-1	3
1	20	6.64E-11	0.72280333	20
-0.121171694	9	5.17E-01	-0.068690327	9
0.252033733	6	6.71E-02	0.310113492	6
0.079503587	1	3.15E-01	0.071479165	1
-1	10	1.22E+03	-0.716046079	10
0.500261277	5	2.61E-02	-0.661264191	5
-0.559302726	9	1.31E+01	0.216368595	9
-0.594970091	6	6.53E+00	-0.047550485	6
-0.429216798	6	2.66E+00	-0.356289161	6
0.26439279	2	1.67E-01	-0.559813456	2
-0.634432962	20	1.01E+03	1	20

-0.832401314	18	7.02E+03	-0.462779579	18
0.452714923	13	1.73E-03	-2	13
-0.641049459	13	9.66E+01	-0.478649996	13
0	2	3.48E-01	0.136894782	2
0	1	3.73E-01	0.004019822	1
-1	2	1.81E+01	-2	2
-0.655644989	3	3.09E+00	-0.788803843	3
-0.05460086	3	3.91E-01	-0.136912734	3
-0.684051128	6	1.06E+01	-0.927333714	6
-0.082378299	2	4.37E-01	-0.057121619	2
0.001278143	3	3.23E-01	-0.115241513	3
-0.208808838	6	8.10E-01	-0.167549853	6
-0.472663351	9	6.90E+00	1	9
0.527476649	9	4.34E-03	-0.46540392	9
0.362164395	5	5.04E-02	-1	5
0.250691939	5	8.55E-02	-0.596010048	5
-0.108630984	1	4.70E-01	0.239612056	1
-0.295013171	13	3.04E+00	0.62318146	13
-0.738847306	13	2.57E+02	-0.533649904	13
-1	4	2.42E+01	-0.530036379	4
-1	11	3.28E+04	-0.234043186	11
-0.281252314	4	9.54E-01	0.30432819	4
-0.640402666	14	1.36E+02	-0.659311175	14
0.165590912	19	1.04E-02	0.521856148	19
-0.065348555	18	2.67E-01	0.362698047	18
0.298046836	7	4.01E-02	-0.754575056	7
-0.150346736	8	6.24E-01	0.922547321	8
-0.493892721	20	1.30E+02	-0.260815133	20
-0.173989839	16	1.03E+00	-0.364165235	16
-0.87439315	18	1.23E+04	-0.945154627	18
-0.467891564	13	1.71E+01	-0.587127377	13
-0.499223403	20	1.41E+02	-0.453486349	20
-0.473318354	7	4.30E+00	-0.161407933	7
-0.383321031	8	2.98E+00	-0.511229098	8
-1	7	2.06E+03	-0.552740353	7
-0.525916851	6	4.49E+00	-0.070346561	6
-1	11	2.76E+03	-1	11
-0.07331219	14	3.25E-01	-1	14
0.238048394	15	9.40E-03	-0.675320789	15
0.001001339	3	3.23E-01	-0.191545025	3
-2	4	1.65E+02	-0.477778608	4
0.896119367	9	2.87E-04	-0.14853165	9
0.5166178	2	8.26E-02	0.044770943	2
0.891176285	5	4.08E-03	-0.111433242	5
-0.313339488	3	9.51E-01	-0.125797075	3
-0.756146598	1	1.86E+00	-0.193189757	1
0.756204754	14	4.73E-05	1	14

0.443000113	6	2.39E-02	-0.207765754	6
2	6	1.23E-05	0.51849143	6
-0.290974796	18	5.32E+00	-0.472615898	18
-2	14	4.29E+06	-2	14
-0.12454835	4	5.02E-01	-0.109852211	4
-1	18	4.60E+05	-1	18
-0.339093068	6	1.64E+00	-0.316214349	6
-1	3	2.27E+01	1	3
-0.832846658	4	9.13E+00	2	4
0.162242478	1	2.64E-01	0.002805154	1
2	47	2.72E-31	-1	47
-0.354814079	8	2.46E+00	-0.863765547	8
0.220764418	2	1.88E-01	-0.147156717	2
0	1	3.73E-01	-0.009365982	1
1	1	2.86E-02	-0.434784204	1
1	13	2.57E-06	-0.513371067	13
0.425172467	8	1.31E-02	-0.702480355	8
-0.017036572	1	3.87E-01	-0.007110789	1
-0.119541299	2	4.85E-01	-0.035080224	2
-0.682695362	13	1.46E+02	-0.460050144	13
2	26	4.39E-17	-1	26
0.884983175	4	8.06E-03	-0.057866017	4
0.135563552	7	1.07E-01	-0.215671017	7
-1	1	5.53E+00	-0.208179397	1
-1	6	1.80E+02	-1	6
-0.794379091	15	1.10E+03	-1	15
-0.456174019	13	1.52E+01	-2	13
-0.18927255	15	1.18E+00	-1	15
-0.11004437	15	4.81E-01	0.006933593	15
-0.002180851	9	2.15E-01	-0.078198718	9
0.617226094	18	3.11E-05	-0.227631409	18
-0.280130484	9	1.67E+00	-0.553261471	9
0.549872885	7	8.72E-03	-1	7
0.930560474	6	1.71E-03	-0.851490836	6
2	6	3.93E-06	-1	6
0.137105421	22	9.55E-03	-0.381747722	22
2	11	6.81E-08	-0.687690084	11
-0.2412183	5	8.84E-01	-0.828956416	5
-0.04366446	33	1.06E-01	0.173127079	33
-0.565917244	7	7.53E+00	-0.576731695	7
-0.44990456	22	1.07E+02	1	22
-0.117358791	27	5.62E-01	0.607404578	27
-0.827684478	5	1.43E+01	-0.734415752	5
-0.452498231	3	1.53E+00	-0.407525575	3
2	6	1.76E-05	0.057506741	6
1	13	1.81E-06	-2	13
0.142928888	9	7.39E-02	-0.16148814	9

-0.202036599	11	1.06E+00	-0.141735848	11
-0.33045636	14	5.02E+00	-0.216501056	14
-0.892243785	10	2.54E+02	-0.409604476	10
-0.213124705	7	8.88E-01	-0.155076478	7
-0.406432998	15	1.37E+01	-1	15
-0.566863921	21	5.10E+02	-0.739603401	21
-0.527558029	13	3.11E+01	-0.965305181	13
-0.167794494	28	1.54E+00	-0.780158496	28
0.209092341	6	8.46E-02	-2	6
0.556914824	14	3.95E-04	-0.448268021	14
-0.651541401	6	8.86E+00	-0.520705492	6
-1	20	1.15E+06	0.529450515	20
-1	7	2.97E+02	-0.267911612	7
-0.991931452	9	3.17E+02	-0.783398951	9
-1	9	1.18E+03	0.151664198	9
-0.210721342	13	1.31E+00	0.753931119	13
-0.772234179	9	6.28E+01	0.453738394	9
-2	18	9.80E+07	-2	18
-0.576678184	9	1.49E+01	-0.960784831	9
-0.049453004	11	2.82E-01	-0.085221944	11
0.749918442	10	4.80E-04	-0.238307696	10
0.271709325	13	1.06E-02	-0.104413557	13
-0.379795623	9	3.48E+00	-0.444096756	9
-0.619724696	8	1.46E+01	1	8
-0.399053257	53	1.77E+04	-0.72570952	53
-0.785094888	15	9.90E+02	0.044296749	15
0.123765154	2	2.46E-01	-0.046450492	2
-0.34931706	8	2.37E+00	-0.814237202	8
-0.922773474	7	6.55E+01	-0.898349496	7
2	12	3.01E-11	-2	12
-0.1017389	4	4.58E-01	-0.07211485	4
0.185503133	31	7.84E-04	0.490644667	31
0.758102288	5	7.68E-03	-0.459700008	5
-2	8	1.18E+04	-2	8
-2	5	2.15E+03	-2	5
-0.992436317	16	1.84E+04	-0.541263931	16
-0.94656839	4	1.45E+01	-0.745446698	4
0.02458641	18	8.08E-02	-0.47456103	18
-0.268786281	2	7.35E-01	-0.212354797	2
-2	7	7.39E+04	-2	7
-0.402094289	4	1.57E+00	-0.569937821	4
-0.43451423	17	2.89E+01	0.373177294	17
-0.102333719	5	4.57E-01	0.186721161	5
-0.277443397	8	1.47E+00	-0.248184397	8
0.819275776	2	3.56E-02	-0.631278194	2
0.373004865	7	2.55E-02	-0.022635881	7
0.235983784	4	1.15E-01	0	4

-0.429298217	5	2.16E+00	-0.906453268	5
-0.433304204	12	9.79E+00	-0.934434661	12
0.07474089	6	1.75E-01	-0.897598163	6
-0.146700935	4	5.50E-01	0	4
-0.945436805	22	2.83E+05	0.40782983	22
-0.020656954	2	3.68E-01	-0.043609759	2
0.548205092	5	2.08E-02	-0.024087029	5
0.03451131	1	3.47E-01	0.006304936	1
-0.687878066	19	1.51E+03	-0.592475197	19
-0.016266648	9	2.39E-01	-0.448028265	9
0.126079417	7	1.14E-01	-0.283289565	7
1	14	2.29E-06	-1	14
-0.204606358	9	9.57E-01	0.297804154	9
-0.891341467	12	7.05E+02	0.47906265	12
-0.806079748	29	7.60E+05	1	29
-0.208462146	9	9.85E-01	0.523339898	9
-0.017873627	4	3.25E-01	-0.011239039	4
-0.612190229	5	5.15E+00	-0.532854595	5
-2	13	2.03E+06	-2	13
-0.058520328	4	3.83E-01	-0.071216971	4
-0.055744632	1	4.20E-01	-0.056751144	1
-0.297138996	15	3.98E+00	-0.266902196	15
-0.689746277	16	4.93E+02	-1	16
-1	2	1.56E+01	0.034628172	2
-0.69477903	15	3.57E+02	1	15
-0.221902518	17	1.98E+00	0.108370697	17
-0.552743739	9	1.25E+01	-0.447817652	9
-0.171442849	7	6.90E-01	-0.283812133	7
1	13	2.96E-07	-0.91420596	13
-0.531505339	10	1.41E+01	-0.599952227	10
-0.07729571	5	4.06E-01	0.07238885	5
0.013644737	2	3.35E-01	0.005151624	2
-0.333812871	11	3.34E+00	-0.130157351	11
-0.54450426	14	4.90E+01	-0.381562299	14
-0.03121946	2	3.79E-01	0.001373457	2
-1	14	6.29E+04	-0.889842479	14
-0.719292433	9	4.25E+01	-1	9
-0.024637881	1	3.93E-01	-0.010299245	1
-0.457124107	38	4.69E+03	-0.870876203	38
0.590576561	4	2.69E-02	-2	4
0.110552621	8	1.08E-01	-0.734410581	8
-0.334444876	30	5.63E+01	-2	30
-0.631586155	7	1.12E+01	-1	7
-0.662084412	26	1.34E+04	-0.738335584	26
-0.998962582	14	6.19E+03	0.175220342	14
0.622864201	3	3.81E-02	-0.435939999	3
-0.973638231	5	2.86E+01	-1	5

-0.906120324	3	7.30E+00	-0.814968783	3
0.27124751	8	3.68E-02	0.099987885	8
0.733622901	21	1.27E-06	-1	21
0.034311148	3	2.88E-01	-0.051158865	3
-0.2901031	8	1.60E+00	-0.345074209	8
-0.393913217	6	2.20E+00	-0.21108986	6
-1	27	1.14E+08	0.91222376	27
-0.222309695	18	2.14E+00	0.189550949	18
0.414360702	18	4.58E-04	-1	18
-0.892463556	42	3.56E+09	-0.759743784	42
-0.78772207	5	1.18E+01	0.368953477	5
-0.760769588	4	6.80E+00	1	4
-0.358663326	13	5.75E+00	-0.150042854	13
0.437051993	3	7.21E-02	-0.305910094	3
-0.63702571	8	1.64E+01	0.20132918	8
0.120095767	22	1.25E-02	1	22
0.035251706	6	2.17E-01	-0.217089588	6
-0.293879994	5	1.14E+00	0.010120096	5
1	14	9.59E-07	0.358199306	14
-0.035069516	1	4.02E-01	-0.173911597	1
0.50578173	5	2.55E-02	-0.421942385	5
1	1	1.74E-02	-0.363538256	1
0.751810262	2	4.29E-02	-0.526785967	2
-0.074311787	2	4.28E-01	-1	2
-0.402958039	1	8.79E-01	-0.027302929	1
2	4	2.14E-04	-1	4
0.353184288	1	1.76E-01	0.014613972	1
-0.03973634	6	3.25E-01	2	6
-1	3	2.02E+01	1	3
-0.779929006	5	1.14E+01	0.257295921	5
0.269484844	22	1.17E-03	-0.126512891	22
0.424278846	6	2.64E-02	-0.907306992	6
-1	4	2.80E+01	-0.251584444	4
-0.249301988	3	7.63E-01	-0.131842456	3
-0.239074881	25	4.88E+00	-0.32741196	25
-0.524228603	6	4.45E+00	-0.392759193	6
-0.302416746	9	1.97E+00	-0.093406792	9
0.036398527	2	3.14E-01	0.006944001	2
-0.015850233	2	3.63E-01	0.022995803	2
-0.045779506	2	3.95E-01	-0.058808536	2
-0.09295432	4	4.42E-01	-0.11983281	4
0.014121893	5	2.63E-01	-0.095144836	5
-0.148268495	4	5.54E-01	-0.075883005	4
-0.476869256	10	9.07E+00	-0.289091952	10
-0.243691322	3	7.49E-01	-0.218979871	3
-0.036412151	3	3.67E-01	-0.063275496	3
-0.012867058	4	3.18E-01	-0.02894107	4

-0.69064097	5	7.47E+00	-0.29237233	5
-0.526088618	6	4.50E+00	-0.135389062	6
-0.967926841	9	2.66E+02	-0.122139204	9
-0.288776214	13	2.86E+00	-0.267026127	13
0.255395281	23	1.15E-03	-0.004519506	23
-0.574393288	7	7.93E+00	0.390050009	7
-0.698411632	11	7.90E+01	-0.834478975	11
-0.259611498	8	1.30E+00	-0.021925481	8
-0.010356152	2	3.58E-01	-0.008625538	2
-1	5	5.78E+01	-0.735702092	5
-0.313774213	32	4.76E+01	-0.618838122	32
-0.062325555	1	4.26E-01	-0.049311352	1
-0.620093493	6	7.48E+00	-0.696884308	6
-0.918023508	42	7.48E+09	-1	42
-0.924000669	8	1.13E+02	0.049794438	8
-0.404370446	8	3.44E+00	-0.270868409	8
-0.70867987	3	3.70E+00	-0.124948743	3
-2	8	7.20E+03	-0.845061299	8
-1	7	2.30E+02	-0.979852369	7
-0.635309799	12	6.46E+01	-0.951292115	12
-0.668820395	12	8.83E+01	-0.326112057	12
1	7	1.11E-04	-0.4000476	7
0.235573916	7	5.85E-02	-0.79699041	7
-0.024080513	3	3.52E-01	-0.210961493	3
-0.747412563	6	1.49E+01	-0.488842204	6
-0.245980502	7	1.08E+00	-0.69137189	7
-2	10	5.21E+05	-1	10
-0.630316103	23	2.66E+03	-0.872514009	23
-4	1	9.06E+02	-3	1
-0.69192348	33	3.39E+05	-0.638613911	33
-0.226946549	7	9.65E-01	0.465159308	7
0.05609264	23	3.11E-02	1	23
-0.994216459	3	9.88E+00	-0.046660499	3
-0.217025745	25	3.29E+00	0.852789516	25
-0.156822305	1	5.21E-01	0.039440807	1
-1	3	2.41E+01	0.169310982	3
-2	3	2.68E+02	-0.474231901	3
-0.72764958	73	8.79E+12	0.093918802	73
-0.391327597	7	2.61E+00	-0.133754103	7
-1	5	4.87E+01	-0.679322942	5
-1	8	6.69E+02	-0.731337727	8
-0.567175118	9	1.39E+01	-0.154059166	9
-0.589773587	12	4.22E+01	0.866740445	12
-0.500507404	9	8.48E+00	0.905644232	9
-2	14	3.36E+07	-0.674441258	14
-0.555393209	38	6.27E+04	0.34135414	38
-0.057105805	2	4.08E-01	-0.025156048	2

-0.012731983	14	1.70E-01	0.659702946	14
0.059199299	1	3.29E-01	0.079055235	1
1	29	3.00E-14	-1	29
-0.070088976	7	3.73E-01	-0.358150381	7
-0.517569279	6	4.30E+00	-0.418430281	6
-1	13	5.52E+03	-0.68186954	13
2.67E-05	2	3.48E-01	-0.047266339	2
0.432868886	22	8.69E-05	-0.286589135	22
1	10	1.55E-06	-2	10
-0.21283839	6	8.28E-01	-0.30050344	6
-0.348461377	3	1.07E+00	-0.624577761	3
-0.578195075	20	4.46E+02	-0.433891318	20
0.065245099	11	1.04E-01	0.427008329	11
0.443242404	15	9.24E-04	-0.406125558	15
0.025739249	2	3.24E-01	-0.171429382	2
-0.455660504	7	3.86E+00	-0.272317733	7
-0.499862286	8	6.52E+00	-0.227637351	8
-0.085247856	8	4.03E-01	0.002339449	8
2	11	8.46E-11	2	11
-0.034058368	14	2.14E-01	-0.288124501	14
-2	3	1.03E+02	-2	3
-0.723095048	9	4.37E+01	-0.983069169	9
-2	4	2.69E+02	-0.958917915	4
-0.402050155	64	1.65E+05	0.138443718	64
-0.21053724	2	6.25E-01	-0.490778302	2
-2	6	2.50E+04	-2	6
0	3	3.24E-01	0	3
-0.170206844	5	6.31E-01	-0.341223255	5
0.886374795	9	3.08E-04	-0.845072014	9
1	6	6.79E-04	0.651488832	6
1	4	2.21E-03	0.139357263	4
-1	15	5.72E+05	-0.902587638	15
-0.562911348	5	4.07E+00	-0.349093197	5
-0.699847677	5	7.80E+00	-0.583617301	5
-2	30	3.71E+16	-2	30
-0.085265191	3	4.34E-01	1.88E-05	3
-0.339674756	6	1.64E+00	-0.039061768	6
-0.190694727	11	9.63E-01	0.295967328	11
-0.13678511	8	5.70E-01	-0.414584459	8
0	2	3.48E-01	-0.103093138	2
-2	14	5.25E+06	-0.941843263	14
0.068596261	16	5.68E-02	-0.293950363	16
-2	1	2.90E+01	0.620022118	1
-0.744592424	9	5.12E+01	0.497412562	9
-0.644453825	29	2.77E+04	0.469675264	29
-0.099309231	1	4.61E-01	0.506013183	1
-0.926956166	5	2.29E+01	-0.124563639	5

-0.924478941	15	4.78E+03	-0.774767495	15
-0.210524834	4	7.14E-01	-0.392621406	4
-2	23	2.69E+11	-2	23
0.221452774	10	3.34E-02	-0.177513877	10
-0.087693025	2	4.44E-01	0.072976318	2
-0.325231095	4	1.14E+00	-0.106013926	4
-0.08288003	5	4.17E-01	0.060851373	5
0.014806011	9	1.90E-01	0.16193967	9
-0.640256504	6	8.34E+00	-0.613002378	6
0.320867329	8	2.64E-02	0.172644101	8
0.377324227	20	3.97E-04	-0.279276537	20
-0.439099366	10	6.70E+00	0.231863534	10
-0.32876929	3	1.00E+00	0.20572978	3
-0.700888826	22	5.80E+03	0.779385269	22
-0.761044377	10	8.87E+01	-0.543508022	10
-1	9	5.67E+03	-1	9
-0.789223738	12	2.72E+02	-0.737614211	12
-0.746409803	5	9.74E+00	0.016878676	5
-0.638171523	2	2.05E+00	-0.436369753	2
-0.053660363	2	4.04E-01	-0.156542484	2
-0.44058135	5	2.28E+00	-2	5
0.871541641	6	2.36E-03	0.121723234	6
0.440597604	9	8.23E-03	2	9
0.905153453	6	1.97E-03	2	6
-0.38223858	8	2.96E+00	2	8
0.511491465	11	2.17E-03	-0.406905534	11
-0.230865584	20	2.82E+00	-0.425744737	20
-2	5	9.98E+02	-0.836507936	5
-0.214290562	6	8.34E-01	-0.363498597	6
-0.314052806	42	1.85E+02	-0.017119652	42
-0.052072665	7	3.35E-01	-0.25056625	7
-0.400647828	4	1.56E+00	-0.654884071	4
-0.202361372	2	6.11E-01	0.621310714	2
-0.087644704	1	4.50E-01	-0.617173481	1
-0.916670456	3	7.57E+00	-0.571548586	3
-1	10	6.25E+02	-0.562176748	10
-0.865106824	11	3.36E+02	-1	11
1	14	9.02E-07	-0.413977628	14
0.877040608	6	2.29E-03	-0.237203267	6
-0.172439137	10	7.88E-01	0.146677892	10
-2	11	5.92E+05	-1	11
-0.657004992	24	5.93E+03	-0.032756752	24
-0.699044771	19	1.76E+03	-0.208974096	19
-0.558579009	6	5.36E+00	0.075542993	6
0.80690879	3	2.02E-02	0.142219511	3
-0.056032354	22	2.06E-01	-0.108686951	22
-0.300089155	8	1.71E+00	-0.445339819	8

-0.513189804	3	1.89E+00	-0.760130777	3
-2	11	1.04E+06	-0.568224306	11
-0.088079406	3	4.39E-01	-0.039057976	3
-0.228259755	2	6.56E-01	-0.100525678	2
-0.923185822	7	6.56E+01	-0.871715474	7
0.461269426	4	4.57E-02	-0.698141214	4
1	3	6.54E-03	-1	3
0.346565494	10	1.22E-02	-1	10
-0.207327417	2	6.19E-01	-0.17608671	2
-1	19	1.33E+05	-1	19
-0.066227625	1	4.30E-01	-0.143014526	1
-2	2	4.40E+01	2	2
1	6	5.73E-04	-0.263030045	6
0.950767991	9	1.92E-04	-0.755848584	9
-0.028300399	5	3.22E-01	-0.29473844	5
-0.352327176	9	2.84E+00	-0.654057166	9
2	16	3.73E-11	1	16
1	10	1.89E-06	1	10
-0.223329859	15	1.73E+00	-0.347545749	15
0.326865065	13	6.09E-03	0.661559164	13
-1	5	6.04E+01	0.225193963	5
-0.458850529	5	2.48E+00	-0.745195828	5
0.017133466	7	2.20E-01	-0.461506246	7
3	2	2.08E-04	0.267898262	2
2	16	9.90E-12	-0.633337451	16
0.0295761	4	2.67E-01	-0.02428988	4
-0.055442833	4	3.79E-01	-0.170588533	4
-0.260999509	17	3.24E+00	-0.86445547	17
-0.891785606	21	7.21E+04	-0.497118488	21
-1	11	7.23E+03	-0.496301783	11
-0.201151492	5	7.31E-01	-0.050937277	5
0.013680623	5	2.63E-01	-0.121603972	5
0.042838994	13	1.04E-01	-0.45717054	13
0.853214809	12	5.94E-05	0.613017412	12
0.015087346	8	2.05E-01	-0.090250127	8
-1	7	4.78E+02	-0.804084125	7
-0.259745257	3	7.91E-01	-0.650665574	3
-1	26	2.06E+07	-0.914592763	26
-0.000889023	6	2.63E-01	0.027625107	6
-1	3	1.33E+01	-0.518550848	3
-0.524240898	7	5.85E+00	-0.240318736	7
-0.095396358	2	4.53E-01	-0.035378678	2
-0.400459413	2	1.06E+00	-0.914991362	2
-1	2	1.25E+01	-1	2
-1	3	1.64E+01	-1	3
0.359197935	2	1.28E-01	-1	2
-1	2	1.20E+01	-0.925525174	2

-0.113069194	2	4.76E-01	-0.204448747	2
-0.177301713	19	1.23E+00	-0.205806672	19
-0.308603824	5	1.22E+00	-0.354061729	5
-0.081420384	18	3.30E-01	-0.254843969	18
-0.339314358	21	1.59E+01	-0.032491709	21
-0.38535714	22	3.85E+01	0.293121252	22
0.302453929	3	1.15E-01	-0.173111687	3
0	6	2.62E-01	-0.063792818	6
-0.204917697	10	1.02E+00	-0.152120411	10
-0.437132887	5	2.24E+00	-1	5
-1	8	2.45E+02	-0.440141342	8
-0.159928575	7	6.43E-01	-0.29576549	7
2	5	6.76E-05	-0.477389406	5
0.472842028	4	4.36E-02	-1	4
0.687666654	4	1.81E-02	-0.266897793	4
0.226219494	4	1.20E-01	-0.280178464	4
1	16	2.28E-08	0.576378806	16
0.422820099	5	3.78E-02	0.006470008	5
2	4	2.30E-05	0.786825653	4
-0.612055398	28	1.03E+04	-0.71234636	28
-0.097243606	20	4.01E-01	-0.612820599	20
0.329359672	5	5.88E-02	-1	5
-0.405912898	7	2.86E+00	-0.415222899	7
-0.199585564	12	1.10E+00	-0.045612527	12
-0.451519344	10	7.40E+00	-0.924249405	10
-0.058487004	4	3.83E-01	-0.139108076	4
-0.217392053	1	5.93E-01	-0.990664438	1
0	1	3.73E-01	-0.05339992	1
-1	2	9.98E+00	-0.461552967	2
0.186806405	2	2.07E-01	-1	2
-0.210739371	3	6.69E-01	-0.121801903	3
-0.996337256	4	1.78E+01	-1	4
-2	11	4.95E+05	0.531945485	11
-1	2	1.63E+01	0.508438618	2
-2	4	5.40E+03	-2	4
-0.298660684	15	4.05E+00	-0.229606156	15
-0.472149199	5	2.65E+00	-0.663570739	5
-0.549363721	6	5.10E+00	-0.474871951	6
-0.579095943	8	1.11E+01	-0.438151489	8
-0.340041086	23	2.18E+01	-1	23
-0.39800742	5	1.86E+00	-0.052380368	5
-0.241057645	9	1.25E+00	0.233209797	9
-0.447981277	8	4.61E+00	0.207178092	8
-0.371845083	5	1.64E+00	-2	5
0.041866847	8	1.72E-01	-0.045204069	8
0.2291159	2	1.84E-01	0.180611479	2
0.564631973	22	1.07E-05	1	22

-0.041264009	33	1.00E-01	1	33
0.573537336	8	4.83E-03	-0.391844959	8
2	13	4.24E-10	-0.528813268	13
0.015454272	1	3.61E-01	-0.031944021	1
0.938760537	4	6.47E-03	-0.794089301	4
-0.008781619	16	1.43E-01	-0.023417757	16
3	3	1.94E-06	1	3
2	10	1.75E-07	-0.297998212	10
0.452384742	2	9.87E-02	-0.021874424	2
0.040920948	15	8.72E-02	-0.181888553	15
1	3	3.62E-03	-0.762716389	3
0	2	3.48E-01	-0.206464228	2
-2	3	6.21E+02	-1	3
-0.046097118	3	3.80E-01	-0.00878052	3
0	2	3.48E-01	-0.005814226	2
0.153413464	4	1.61E-01	-0.084254773	4
0	1	3.73E-01	-0.049054868	1
-0.170188109	20	1.16E+00	1	20
-0.677906894	7	1.48E+01	-0.315260827	7
-0.01020693	10	2.14E-01	-0.617718721	10
-0.570412147	4	3.12E+00	0.019943102	4
1	24	1.47E-10	-0.359408933	24
3	2	2.50E-04	-0.137081117	2
1	23	1.02E-09	0.751716355	23
-0.198619712	9	9.16E-01	0.201221392	9
0.193140539	7	7.57E-02	-0.101136631	7
-0.349845893	9	2.79E+00	-0.108088868	9
-0.910922364	10	2.95E+02	-0.663575523	10
-2	9	6.22E+05	0.768654285	9
-0.31056316	14	4.06E+00	-0.830290536	14
-0.727931747	4	5.94E+00	-0.513523189	4
0	3	3.24E-01	-0.27176634	3
0.059138488	2	2.95E-01	-0.008405262	2
0.845985296	2	3.30E-02	-0.109952979	2
-1	2	1.14E+01	-0.828679782	2
-0.530113848	16	7.31E+01	-0.971459468	16
2	17	9.00E-12	-0.669180564	17
-0.85550303	2	3.76E+00	-0.619864471	2
-0.201975855	20	1.85E+00	-0.207468113	20
-0.616381993	14	1.05E+02	-0.978162469	14
-0.139568483	11	6.18E-01	-0.214594281	11
1	9	3.26E-05	0.037167012	9
0.145160132	79	6.56E-07	-0.225359648	79
0.443144571	7	1.66E-02	-0.14893033	7
-0.11622121	16	5.18E-01	-0.203429107	16
-0.180300642	5	6.62E-01	0.208634452	5
-0.186279903	25	1.90E+00	0.270017464	25

-0.082409067	8	3.95E-01	0.877138794	8
-0.468528013	6	3.30E+00	-0.075862006	6
-0.180795277	2	5.75E-01	-0.15250495	2
0	1	3.73E-01	0	1
0	3	3.24E-01	-0.413951054	3
-0.449993261	3	1.52E+00	0.323438115	3
0.094228927	2	2.68E-01	0.074038378	2
-0.317039395	5	1.27E+00	1	5
0.046702826	5	2.25E-01	-0.045669749	5
-0.011217219	3	3.37E-01	-0.004182183	3
-0.744412871	13	2.71E+02	-1	13
0	2	3.48E-01	-0.010210232	2
0.30574833	8	2.92E-02	-0.370727499	8
-0.395832856	40	1.36E+03	-0.513705269	40
-0.568142754	3	2.28E+00	0.79081973	3
-0.217938424	16	1.75E+00	0.673630197	16
-0.728018444	10	6.81E+01	-0.40341283	10
-0.650429838	12	7.43E+01	-0.582917556	12
-0.277699143	2	7.53E-01	-0.655507726	2
-0.755568496	2	2.85E+00	-0.32482545	2
-0.360233752	8	2.55E+00	-0.669276101	8
0.34070046	10	1.28E-02	2	10
-0.536389342	6	4.76E+00	-0.469570841	6
-0.912727907	4	1.27E+01	-0.371055797	4
0	1	3.73E-01	-0.017864751	1
-0.571822765	6	5.76E+00	-0.417077197	6
0.630522882	6	8.68E-03	0.163346652	6
0.011737243	2	3.37E-01	0.250880746	2
-1	5	3.93E+01	-0.397298296	5
-0.804664957	19	7.67E+03	-0.759587477	19
-0.380485879	2	1.00E+00	-0.598561414	2
-0.302420382	6	1.34E+00	-0.332594032	6
-1	14	1.04E+05	-0.770721922	14
-0.597883137	13	6.28E+01	-0.603001491	13
-0.560947825	15	7.86E+01	0.56298743	15
-0.325591539	16	6.34E+00	-0.152689865	16
-0.026444928	2	3.74E-01	-0.167861948	2
0.32812884	55	3.67E-08	-0.098662655	55
-1	6	4.65E+02	-0.376709765	6
-0.541139917	7	6.48E+00	-0.307613573	7
-0.874123649	96	1.25E+21	-0.770306814	96
-0.018416064	1	3.88E-01	-0.014591855	1
-0.21578226	2	6.34E-01	-0.062988689	2
-0.456158074	7	3.87E+00	-0.395219217	7
-0.257046108	9	1.41E+00	-0.309416356	9
-1	7	2.52E+02	-2	7
-0.56401977	5	4.09E+00	-1	5

0.005158608	6	2.55E-01	-2	6
0	1	3.73E-01	-0.032702053	1
-0.697997325	7	1.68E+01	-0.475121623	7
-2	6	8.11E+03	-1	6
-0.305392265	8	1.77E+00	-0.785218627	8
-0.751625647	95	3.08E+17	-0.662745194	95
0.125021139	1	2.86E-01	-0.035157289	1
-1	12	6.50E+03	0.766922593	12
-0.000151375	2	3.48E-01	0.042028518	2
-0.598884079	24	2.18E+03	-1	24
-2	3	6.99E+01	-0.815581322	3
-0.545684447	7	6.66E+00	-1	7
-0.306357399	35	5.95E+01	-0.31383553	35
-0.3935172	7	2.65E+00	-0.46347699	7
-0.019655063	8	2.59E-01	-0.143726346	8
0.397676207	5	4.25E-02	-0.544020773	5
-0.367613549	2	9.67E-01	-0.316192418	2
-0.011083942	3	3.37E-01	-0.008103369	3
-0.003014613	9	2.17E-01	-0.012222884	9
-0.467740481	22	1.43E+02	0.95056105	22
-0.295260524	6	1.29E+00	-0.185119446	6
0.775318732	3	2.25E-02	0.027857228	3
-0.023693032	3	3.51E-01	-0.017946735	3
0	1	3.73E-01	-0.00584791	1
0.101135354	5	1.74E-01	-0.076611165	5
0.028866597	3	2.93E-01	-0.520134758	3
-0.881654681	8	8.47E+01	0.21618238	8
-0.758173384	12	2.03E+02	0.027115091	12
-0.48513611	13	2.03E+01	0.781901484	13
0.271237511	2	1.63E-01	-0.178005021	2
2	18	3.84E-11	-0.583196214	18
-0.96114549	22	3.63E+05	-1	22
-0.611558621	7	9.93E+00	-0.622775187	7
-0.782869195	5	1.16E+01	0.156854597	5
-1	13	3.58E+03	-0.314489502	13
-1	11	1.46E+04	-0.293833582	11
-0.406062272	95	8.36E+07	0.162973461	95
-1	10	3.54E+03	1	10
0.083081395	5	1.90E-01	-0.300956458	5
-0.165914037	10	7.47E-01	-0.315633933	10
-0.577216144	12	3.75E+01	-0.102562312	12
-1	12	8.88E+03	-0.136755602	12
-0.743580823	5	9.61E+00	-0.799907507	5
-0.141950245	27	9.00E-01	-0.761320098	27
-0.149500249	4	5.57E-01	0.276298254	4
-0.35024359	6	1.74E+00	0.053122862	6
-0.721277289	13	2.15E+02	0.769913489	13

0.140331205	51	8.09E-05	0.802481091	51
-1	19	2.93E+05	0.237998953	19
-0.375189229	22	3.28E+01	-0.099482954	22
-1	10	4.47E+03	-2	10
0.683248832	6	6.52E-03	-0.345069027	6
0.898433484	5	3.94E-03	-0.866377598	5
0.469893041	4	4.41E-02	-0.411206994	4
0.842673035	10	2.28E-04	-0.246609872	10
0.749587163	5	8.00E-03	-0.745058086	5
-0.265207072	8	1.35E+00	-0.217238836	8
0	1	3.73E-01	0	1
0	2	3.48E-01	-0.012878197	2
-0.029457312	2	3.77E-01	-0.233596109	2
-0.925239814	8	1.14E+02	-1	8
-0.302453742	28	2.22E+01	-2	28
-0.120640981	10	5.20E-01	-2	10
-0.239942719	27	5.89E+00	-0.965938979	27
-1	9	6.15E+02	-0.814602119	9
-1	6	1.44E+02	-0.794228989	6
-1	8	2.04E+02	0.459182234	8
-0.20319125	7	8.36E-01	-0.013736426	7
-0.424084135	25	1.33E+02	-0.437932155	25
-0.428051738	6	2.65E+00	-0.580617327	6
-0.705791781	9	3.85E+01	-2	9
-0.774134059	10	9.86E+01	-2	10
-0.273053459	20	5.21E+00	0.244015689	20
0.017235758	18	8.91E-02	-0.349707952	18
-0.102205184	4	4.59E-01	-0.054831872	4
-1	10	8.84E+02	-0.067206574	10
-2	23	8.64E+13	-0.21859313	23
-2	9	6.65E+04	0.205534823	9
0.049138574	23	3.49E-02	0.395312378	23
0.578425496	16	1.28E-04	0.048083289	16
-0.100440671	21	4.18E-01	0.128971902	21
-0.363013833	8	2.60E+00	-0.383528041	8
0.187264105	20	6.34E-03	1	20
-0.739106064	8	3.25E+01	0.727784265	8
-2	12	4.29E+05	1	12
-0.18074715	12	9.26E-01	-0.505229848	12
0.089867382	18	3.40E-02	-1	18
-0.826133001	8	5.84E+01	-0.008964707	8
-0.818556803	9	8.84E+01	-1	9
-0.180604014	28	1.98E+00	-0.338258531	28
-0.109808983	12	4.78E-01	-0.793940117	12
0.134246079	20	1.37E-02	-2	20
0.187037761	1	2.51E-01	-0.098956671	1
-0.150262008	9	6.41E-01	-1	9

-1	19	4.42E+06	-0.656372335	19
-2	5	4.70E+03	-2	5
-1	7	7.97E+02	-1	7
-0.271062451	8	1.40E+00	0.229283726	8
-0.214574432	70	7.30E+01	0.849972017	70
-0.417697669	4	1.67E+00	1	4
0.453572574	3	6.81E-02	0.377419952	3
-0.692931314	4	5.15E+00	1	4
-0.205566304	46	1.03E+01	1	46
-1	5	8.78E+01	1	5
0.15206605	2	2.28E-01	0.124710192	2
0.008160503	6	2.51E-01	0.107612288	6
-0.667398115	5	6.69E+00	-0.11661478	5
0.491619997	15	5.35E-04	0.853700067	15
0.340969651	4	7.47E-02	0.45397486	4
-0.846777138	9	1.09E+02	0.149267166	9
-1	6	1.03E+02	-0.470102865	6
-0.403716285	9	4.15E+00	0.177435123	9
-0.961694626	7	8.29E+01	-1	7
-3	5	3.21E+06	-3	5
-0.428848054	9	5.00E+00	-0.625408952	9
0.127170873	36	1.29E-03	0.673354649	36
-0.060977693	7	3.53E-01	0.765330834	7
-0.321161374	14	4.54E+00	-0.323461661	14
-2	10	1.99E+05	-1	10
0	1	3.73E-01	0	1
0.003121201	2	3.45E-01	-0.000670303	2
0.837479816	7	1.53E-03	-0.844895848	7
0.098737724	18	3.02E-02	0.060464407	18
-0.543484074	9	1.16E+01	0.087301372	9
0	1	3.73E-01	0	1
-1	31	5.95E+08	-0.774500851	31
-0.588750174	4	3.36E+00	-0.160227316	4
-0.427273078	19	4.00E+01	-0.473691849	19
-0.738367618	9	4.89E+01	-0.753355965	9
-0.417593183	13	1.04E+01	-0.770596841	13
-0.171812155	2	5.61E-01	-0.492044561	2
-0.663379832	2	2.20E+00	-0.444122686	2
0.579726706	1	1.09E-01	-1	1
-0.230658853	9	1.16E+00	-0.541403784	9
-0.231701049	8	1.08E+00	-0.321936571	8
-0.531981626	10	1.41E+01	-0.637369098	10
-0.669723575	10	4.26E+01	-0.398411227	10
-0.115984347	13	5.09E-01	-0.69342698	13
0.078340113	6	1.72E-01	-2	6
-1	16	1.19E+06	-2	16
-1	2	2.13E+01	-2	2

0.137358555	5	1.46E-01	-0.394588652	5
-0.335921174	3	1.03E+00	-0.480952024	3
-1	8	1.10E+03	-1	8
-0.870785336	5	1.76E+01	-0.251110194	5
-0.950260429	11	7.04E+02	0.083465451	11
-0.717061973	16	6.84E+02	-0.553915352	16
1	22	1.70E-09	2	22
-0.166670688	13	8.44E-01	-0.309766595	13
-0.88365553	8	8.59E+01	-0.875952742	8
-0.54746093	18	1.60E+02	-1	18
-0.397238593	16	1.49E+01	-0.132931872	16
-0.819277621	19	9.40E+03	1	19
-0.109406725	2	4.71E-01	-0.198062727	2
-1	4	7.66E+01	-0.840867427	4
-0.480825482	2	1.33E+00	-0.514179262	2
-0.785818961	16	1.56E+03	0.636325949	16
-0.648943453	13	1.05E+02	-0.283472225	13
-0.199865727	2	6.06E-01	-0.612419246	2
0.87651879	4	8.35E-03	-1	4
-0.130672427	7	5.39E-01	-0.531445821	7
-0.706216949	4	5.44E+00	-0.672437388	4
-0.407583333	4	1.60E+00	-0.78416507	4
-0.903568654	21	8.63E+04	-0.71909879	21
-0.242635673	23	4.36E+00	0.066355184	23
-1	2	1.94E+01	-1	2
-1	6	6.81E+01	-0.321630551	6
-0.273605558	10	1.77E+00	0.029874354	10
0.225065611	3	1.49E-01	0.017002881	3
0.682119664	9	1.39E-03	-0.494277016	9
0.132348792	13	4.25E-02	-1	13
-0.217654544	15	1.62E+00	-0.403369981	15
-0.063045042	2	4.14E-01	-0.011899911	2
-0.151957289	6	5.96E-01	-0.027792446	6
-0.620626322	23	2.27E+03	0.751754953	23
-0.812283814	17	3.39E+03	-0.545454345	17
0.1511098	21	9.06E-03	0.649388137	21
0.071802363	9	1.25E-01	-0.229255436	9
-1	26	4.87E+07	-0.904286339	26
-1	7	1.77E+02	1	7
-0.90411502	2	4.30E+00	-0.851642298	2
-0.538612984	37	3.04E+04	-0.063273368	37
-0.470902942	5	2.63E+00	-1	5
-0.080750976	42	2.13E-01	0.695891107	42
-0.008136015	5	2.92E-01	0.148507426	5
-0.370485455	15	9.13E+00	-0.72132539	15
0	2	3.48E-01	-0.005197094	2
-1	4	2.96E+01	-0.167063174	4

-0.030478583	11	2.40E-01	-0.646547457	11
-0.12957468	12	5.74E-01	-0.38576366	12
-0.726915588	33	7.61E+05	1	33
0.01339975	4	2.86E-01	2	4
-0.710561117	3	3.73E+00	0.220741305	3
-0.643148324	31	5.45E+04	-0.6186079	31
0.223597289	5	9.72E-02	-0.128833369	5
-0.68220745	16	4.51E+02	-0.314980486	16
-0.427226917	7	3.25E+00	-0.087486858	7
0.492528016	49	8.16E-10	1	49
-1	4	2.11E+01	1	4
-1	12	5.00E+04	-0.54241415	12
-0.183048782	14	1.04E+00	-0.963399387	14
0	3	3.24E-01	-0.203190866	3
-0.269989004	64	5.32E+02	0.994933528	64
-0.021359408	1	3.91E-01	0.178341024	1
-0.20566594	76	7.03E+01	-0.16284662	76
-0.684894099	6	1.06E+01	-0.498647855	6
0.274777867	13	1.02E-02	-0.400144875	13
-0.156134786	13	7.60E-01	-0.316718663	13
-0.348388358	13	5.19E+00	-0.215587758	13
-0.074494992	16	3.15E-01	-0.284163345	16
-0.461998068	6	3.18E+00	-0.174440721	6
-1	5	1.82E+02	-1	5
-0.80364351	6	2.02E+01	-1	6
-0.031716096	2	3.80E-01	0	2
-0.533641378	3	2.03E+00	-0.399048778	3
-1	7	4.03E+02	-1	7
-0.035069516	1	4.02E-01	-0.029233508	1
-0.832369569	5	1.46E+01	-0.814578329	5
-0.86591913	14	1.50E+03	-0.830144588	14
0.678180432	12	3.05E-04	0.261275265	12
-1	5	6.83E+01	-0.630703018	5
-0.904129347	16	6.41E+03	-0.893220687	16
-0.052605443	5	3.61E-01	-0.274165401	5
-0.28820698	8	1.57E+00	-0.212978781	8
-1	20	4.40E+05	-0.262496287	20
-0.311394558	6	1.41E+00	-0.381684711	6
-1	12	7.39E+03	-1	12
-1	2	7.90E+00	-0.136563985	2
0.571927737	10	2.00E-03	-0.288859267	10
2	3	4.18E-04	-0.307183737	3
-0.173967073	6	6.71E-01	-0.06794919	6
0.293618684	11	1.44E-02	0.421659435	11
-0.200814544	11	1.05E+00	0.076316576	11
-0.449975558	1	9.72E-01	-0.048201169	1
-0.15485105	4	5.69E-01	-0.426190483	4

-0.363457633	23	3.22E+01	-0.340488679	23
-0.155975251	19	9.16E-01	0.40009714	19
-0.165094336	19	1.04E+00	-0.776131544	19
-0.610638541	5	5.11E+00	-0.612995331	5
-1	9	4.74E+02	-0.897720923	9
0.406326114	14	1.96E-03	-2	14
-0.605253964	2	1.87E+00	-1	2
0.040196256	4	2.56E-01	0.038551363	4
-0.21431424	2	6.31E-01	-0.034928608	2
-1	25	2.53E+08	-0.058320687	25
-0.905027074	33	4.66E+07	0.907131391	33
-2	11	1.84E+05	-0.380357331	11
-0.194500557	2	5.97E-01	-0.284941123	2
-0.96054721	11	7.69E+02	-0.741026044	11
-0.561775917	8	9.89E+00	-0.154438437	8
-0.51633531	4	2.50E+00	-0.241974333	4
-0.600342828	5	4.87E+00	-0.516168554	5
-0.809450177	5	1.31E+01	-0.064110341	5
-0.5299641	10	1.39E+01	0.835177232	10
-0.349025738	4	1.26E+00	-0.66062888	4
-0.821734744	3	5.46E+00	-1	3
-0.17660666	1	5.43E-01	-0.160534859	1
-0.05164215	4	3.73E-01	-0.939152861	4
-1	21	1.03E+06	-0.863774945	21
-0.628617805	6	7.83E+00	-1	6
-0.323129742	5	1.30E+00	-0.260618681	5
-0.657745327	4	4.46E+00	-0.148787766	4
-0.18707725	7	7.58E-01	-0.287395325	7
-0.727202802	11	1.01E+02	-0.717372708	11
-0.557083914	25	1.43E+03	-0.559166705	25
0.759563621	4	1.35E-02	-0.022088539	4
-0.266760194	3	8.11E-01	-0.085106774	3
-0.403230903	15	1.32E+01	-0.971725314	15
-0.305097831	18	6.42E+00	-0.399975738	18
-0.310522073	12	3.11E+00	-0.060612605	12
1	10	4.08E-06	-1	10
-0.249741974	72	4.65E+02	-0.513021933	72
-0.475244842	8	5.53E+00	-0.188833126	8
-0.46924824	4	2.06E+00	-0.314187199	4
-3	18	4.93E+14	-3	18
-1	4	2.66E+01	0.540619215	4
-0.36857522	4	1.36E+00	0.235867316	4
-0.08241429	4	4.23E-01	0.03346805	4
-0.539980644	13	3.52E+01	-0.952915615	13
0.396506915	4	5.95E-02	-0.212317462	4
-0.753276111	16	1.05E+03	0.430652376	16
-0.211608423	11	1.15E+00	-0.417827543	11

0.028888672	24	4.46E-02	1	24
-0.015269393	2	3.63E-01	-0.003218514	2
-0.178180366	25	1.64E+00	0.471867954	25
-1	7	1.41E+02	-0.078671395	7
0.733330544	9	9.52E-04	-0.520315427	9
0.052966671	3	2.70E-01	-0.02715539	3
-0.009729802	2	3.57E-01	-0.014052396	2
-2	21	9.97E+09	-0.580676062	21
-0.462855946	2	1.26E+00	-0.623483057	2
-0.221998903	2	6.45E-01	-0.310163158	2
-0.560670568	19	2.57E+02	-1	19
-0.784651529	6	1.82E+01	-0.441484852	6
-1	9	1.71E+03	-0.427964523	9
-0.807207927	6	2.06E+01	-0.229020307	6
-1	6	1.30E+02	0.528772602	6
0.206647352	6	8.57E-02	-0.099502481	6
-0.066267399	3	4.07E-01	0.049770406	3
-0.074160897	1	4.37E-01	-0.032107386	1
0.16847042	6	1.05E-01	-0.348400887	6
-0.039221142	1	4.06E-01	-0.024595771	1
-0.36033034	14	6.90E+00	-0.915809493	14
-0.268937337	11	1.90E+00	-1	11
0	3	3.24E-01	-0.007421188	3
-0.035567599	7	3.03E-01	-0.043897322	7
-1	22	1.18E+08	-0.639885579	22
0.776255231	19	2.11E-06	0.166446771	19
-0.17171356	15	9.65E-01	-0.32834332	15
0.017380043	12	1.46E-01	-0.506823999	12
-0.49263682	10	1.03E+01	-0.187276517	10
0.009125821	20	8.51E-02	-0.075205657	20
-0.666506212	8	2.00E+01	-0.355677679	8
-0.369771553	4	1.37E+00	-0.773273911	4
-0.777344958	20	8.13E+03	0.10947478	20
-3	2	5.03E+02	-0.187191275	2
0.795853248	4	1.16E-02	1	4
-0.012675234	25	8.56E-02	0.746093233	25
-0.87996588	3	6.67E+00	-0.091520456	3
-0.413180928	14	1.21E+01	-0.416381809	14
0.214345487	4	1.26E-01	-0.283051005	4
2	4	1.65E-04	-0.194345853	4
-0.306922669	46	2.53E+02	-0.732958515	46
-2	2	7.32E+01	-2	2
-0.026810978	5	3.19E-01	-1	5
-0.983141871	11	9.36E+02	-0.61541363	11
-0.255985046	52	9.05E+01	1	52
0.018429248	4	2.80E-01	0.029984997	4
0.245087766	3	1.39E-01	-1	3

2	38	1.01E-22	-1	38
-0.049943026	18	2.17E-01	-0.412671286	18
0.827268729	6	3.00E-03	0.410148357	6
3	31	4.36E-26	-0.525039875	31
0.199867897	39	1.14E-04	0.035997304	39
-0.679962845	6	1.03E+01	-0.568067898	6
0	1	3.73E-01	-0.029233508	1
-0.985986158	22	5.39E+05	-2	22
-1	10	1.92E+03	-0.865305829	10
-0.379771629	3	1.20E+00	0.037773004	3
-0.398149224	5	1.86E+00	0.282870396	5
-0.189671797	19	1.46E+00	0.505414305	19
-1	12	2.38E+04	-2	12
-0.546699113	14	5.02E+01	0.083784175	14
-0.981940404	42	4.77E+10	0.15309587	42
-2	16	3.63E+08	-1	16
-3	8	8.21E+07	-0.535092803	8
1	5	1.27E-03	3	5
0	3	3.24E-01	0	3
-0.365999378	4	1.35E+00	-0.282520491	4
-0.505520299	9	8.79E+00	0.016362211	9
-1	2	1.01E+01	-0.47762541	2
0.039519389	5	2.33E-01	0.447935978	5
0.452264431	9	7.56E-03	-0.034818273	9
0.150414233	1	2.71E-01	-0.006359169	1
-0.43753559	6	2.79E+00	-0.159812894	6
0.002912244	5	2.77E-01	-0.492889308	5
-0.047614827	1	4.13E-01	-0.022693656	1
-0.505942939	8	6.80E+00	-0.643757673	8
-0.09769821	22	3.99E-01	1	22
-0.282437787	8	1.52E+00	-0.278700501	8
0.100896227	6	1.52E-01	-0.618060483	6
-0.705382713	8	2.59E+01	-0.398511482	8
-0.860453464	7	4.49E+01	-0.753802628	7
-0.913176426	5	2.15E+01	-0.612482488	5
-2	6	2.81E+04	-1	6
-0.086987651	6	4.19E-01	-0.087586487	6
-1	4	1.06E+02	-1	4
-0.707034756	3	3.68E+00	-0.240398818	3
-1	5	5.19E+01	-0.4095836	5
-0.60080381	8	1.29E+01	-0.970205223	8
0.325320908	9	1.93E-02	-0.333418895	9
-0.770820747	9	6.22E+01	0.098426506	9
-0.820878295	11	2.29E+02	-0.727845324	11
0.021270812	5	2.54E-01	-0.608852844	5
-1	5	3.73E+01	-1	5
-0.681956375	9	3.23E+01	-2	9

-0.237037433	18	2.60E+00	-0.814937137	18
0.829198761	2	3.46E-02	-1	2
-0.040573662	2	3.89E-01	0.234126777	2
-0.136316142	9	5.79E-01	1	9
-0.157069636	6	6.12E-01	-0.02080583	6
-0.434789469	12	9.93E+00	-0.365291643	12
-0.070368318	4	4.03E-01	-0.048285108	4
0.458295747	20	1.22E-04	0.002163463	20
0.054050181	2	2.99E-01	0.085591742	2
-0.673255814	21	2.58E+03	-0.748696747	21
-0.711365611	1	1.69E+00	-0.482124929	1
-0.564598259	35	3.26E+04	-0.749614405	35
-0.971945791	6	5.01E+01	0.679741229	6
0.101242144	5	1.74E-01	-1	5
-0.316840299	2	8.40E-01	-0.087499537	2
-0.078133127	3	4.24E-01	-0.022836101	3
-2	5	4.17E+02	-0.173690861	5
1	3	6.53E-03	-0.735360673	3
0.901965167	7	1.03E-03	-1	7
-1	19	6.78E+07	-0.584381503	19
-1	5	8.57E+01	-0.03370245	5
0.173955852	6	1.02E-01	-0.732260665	6
-0.728787696	12	1.55E+02	-1	12
-0.225282971	4	7.59E-01	-0.244881173	4
-0.228949547	2	6.57E-01	-0.023838532	2
-1	4	8.11E+01	-1	4
-0.699550792	4	5.29E+00	-0.404794381	4
-0.258820665	3	7.89E-01	-0.309508512	3
-0.428926099	4	1.75E+00	-0.754518986	4
0.171147623	9	6.00E-02	-0.148551331	9
0	5	2.81E-01	-0.219219478	5
0	4	3.02E-01	0	4
-0.351868919	7	2.06E+00	-0.558871573	7
-0.443014459	4	1.85E+00	0	4
-0.354184268	5	1.51E+00	-0.065674312	5
-1	8	1.07E+03	-0.733908056	8
-0.411703816	11	6.56E+00	-0.290516273	11
-0.303053639	4	1.04E+00	-0.377780276	4
0.352154789	8	2.14E-02	-0.302097119	8
-0.12704047	7	5.27E-01	-0.894894354	7
-0.165604188	10	7.46E-01	-0.353714845	10
-0.048445299	1	4.14E-01	0.079849445	1
-0.453333634	6	3.04E+00	-0.051492244	6
-0.039240439	6	3.24E-01	-0.030726747	6
-0.497131279	18	8.21E+01	-0.87975148	18
-0.418369795	5	2.05E+00	-0.787813306	5
-0.672705562	4	4.74E+00	-0.409552025	4

-0.066971462	1	4.30E-01	-0.049054868	1
0.463417355	7	1.47E-02	-0.819870683	7
0.646883188	2	5.75E-02	-0.829339221	2
1	11	5.05E-06	-0.203587172	11
-0.295411435	98	1.05E+05	-0.313646475	98
-0.327116945	13	4.19E+00	-0.068042941	13
-0.391464183	3	1.24E+00	-0.196758624	3
-0.900009966	5	2.02E+01	-0.770766327	5
-2	6	1.79E+04	-0.985442097	6
-1	10	6.40E+03	-0.548196935	10
0.026906594	4	2.70E-01	-0.008322101	4
0.384447673	20	3.58E-04	-0.51842531	20
-0.690988041	8	2.35E+01	-1	8
-0.572665528	5	4.27E+00	-0.063194997	5
-2	11	5.47E+05	-0.538680872	11
-1	40	7.37E+11	-0.040496153	40
-0.348179545	8	2.36E+00	-0.484608858	8
-0.310177751	5	1.23E+00	-0.153658574	5
-0.987052705	8	1.72E+02	-0.673599029	8
-0.675761895	37	1.03E+06	2	37
-0.164282783	9	7.11E-01	-0.039205403	9
1	7	4.76E-04	2	7
0.263294991	5	8.05E-02	0.623629555	5
-0.466256014	7	4.12E+00	-0.637448183	7
-1	8	5.60E+02	-0.950343866	8
-0.384070555	6	2.09E+00	-0.912648985	6
-0.611138892	8	1.38E+01	-0.705177265	8
-0.276762783	10	1.82E+00	-0.538092425	10
0.059210228	2	2.95E-01	-0.061167441	2
-0.039183804	5	3.39E-01	-0.050525183	5
0.033809541	37	1.22E-02	-0.324131101	37
-0.586528044	7	8.53E+00	-0.750382127	7
-0.405672416	5	1.93E+00	-0.904191518	5
-0.560752587	6	5.42E+00	-0.937707507	6
0.566736512	7	7.87E-03	-0.231535842	7
0.207256948	9	4.60E-02	-0.777609473	9
-1	13	3.74E+03	-1	13
0.307765604	9	2.19E-02	2	9
-0.346033046	23	2.41E+01	0.12043011	23
-0.190023489	4	6.57E-01	-0.150004983	4
0.064578526	10	1.18E-01	-0.286579499	10
0.030723382	2	3.19E-01	0	2
0.098071202	8	1.18E-01	-0.096213531	8
0.269373567	9	2.91E-02	-0.307060404	9
-0.556455863	22	5.84E+02	-0.79985375	22
0.197352282	7	7.38E-02	-0.400589007	7
-0.931396487	5	2.34E+01	0.373668	5

-2	22	6.59E+09	-2	22
-0.667040451	10	4.17E+01	-0.62662285	10
-0.689960973	6	1.09E+01	-0.418019727	6
-0.731913157	5	9.09E+00	-0.408386098	5
-0.97179176	7	8.81E+01	-0.790878092	7
-0.158708334	3	5.59E-01	-0.217625083	3
-0.049397571	5	3.56E-01	-0.223383565	5
-0.124501468	2	4.92E-01	-0.017333857	2
-0.627184736	12	5.98E+01	-0.793698977	12
-0.017958879	3	3.45E-01	-0.069595037	3
0	3	3.24E-01	-0.081687777	3
-0.042188683	2	3.91E-01	-0.089439068	2
-1	7	1.91E+02	-2	7
-0.55642073	9	1.28E+01	-1	9
-0.406520286	5	1.94E+00	-0.336845965	5
-0.847528196	7	4.15E+01	-0.546449871	7
-0.181158815	7	7.32E-01	-0.327384359	7
-0.188756873	9	8.52E-01	-0.695105177	9
-0.310373947	7	1.60E+00	-0.192822726	7
0.185621517	8	6.54E-02	-0.262086415	8
-0.270890738	4	9.15E-01	-0.158325697	4
-0.227561244	4	7.66E-01	-0.022053913	4
-0.344399756	5	1.44E+00	-0.606663472	5
-0.561854854	5	4.05E+00	-0.233555949	5
-0.06859572	4	4.00E-01	-0.752735579	4
2	5	2.20E-05	-0.216911694	5
2	4	5.90E-05	-0.484096533	4
0.000988518	1	3.72E-01	-0.137899674	1
-0.037975778	3	3.69E-01	-0.014447872	3
0.265047532	3	1.30E-01	-0.119694358	3
0	3	3.24E-01	-0.005887553	3
0	1	3.73E-01	0	1
0.152773	8	8.15E-02	-1	8
-0.850270724	6	2.59E+01	-2	6
-0.437045593	2	1.17E+00	-0.227783015	2
-0.543529077	2	1.58E+00	-0.328971737	2
-0.374744017	2	9.86E-01	-0.343216649	2
-0.044083392	2	3.93E-01	-0.104510535	2
-0.045856187	1	4.11E-01	0.002020271	1
-2	4	3.37E+02	-0.517539058	4
1	8	1.32E-04	0.074005677	8
0.141152481	11	5.40E-02	0.229967291	11
-0.767890917	15	8.15E+02	-0.035856888	15
-0.031793632	5	3.27E-01	-0.199465726	5
-0.468178716	13	1.72E+01	-0.227735579	13
-0.408329688	42	2.85E+03	0.459225456	42
-1	4	3.65E+01	-2	4

-0.51100714	2	1.44E+00	-0.473435722	2
0.075672706	16	5.22E-02	0.027770513	16
-0.96846438	9	2.67E+02	0.63267054	9
-0.464772487	8	5.15E+00	0.062046799	8
0.393582703	17	8.39E-04	-0.268361713	17
-0.097258804	9	4.34E-01	-0.805945501	9
-0.113769938	2	4.77E-01	-0.009338677	2
-0.012363348	4	3.17E-01	-0.646495159	4
-2	37	1.33E+24	-2	37
-0.38557266	8	3.03E+00	-1	8
0.278187234	11	1.64E-02	-0.265425427	11
0.321791397	18	1.57E-03	-0.165643651	18
0.207456847	13	2.01E-02	-0.662954101	13
-0.550583503	3	2.15E+00	-0.176599627	3
-0.10438518	37	4.28E-01	0.238458268	37
-0.562651831	1	1.24E+00	-0.564623247	1
-0.125194013	1	4.87E-01	-0.028647007	1
-0.44612396	36	2.25E+03	0.129669153	36
-0.767949392	13	3.43E+02	-0.650703056	13
-0.726739907	8	2.99E+01	0.033176808	8
-0.003719361	14	1.55E-01	0.968500366	14
-0.295424088	1	7.00E-01	0.047710634	1
-0.183373035	6	7.06E-01	0.072402005	6
-1	15	1.20E+04	-0.827213739	15
-0.521930827	11	1.71E+01	-0.929812696	11
-0.081201101	18	3.29E-01	-0.397017726	18
-2	22	9.26E+09	-1	22
0.002060217	26	6.12E-02	-0.29895134	26
-2	5	4.93E+02	-0.320918203	5
-1	10	7.66E+03	0.197627077	10
-0.926441872	5	2.29E+01	-0.725162594	5
-0.160054972	4	5.81E-01	0.046126306	4
0.086976797	5	1.86E-01	-0.161821709	5
2	10	7.83E-07	2	10
-0.452775235	30	6.86E+02	-0.251324075	30
0.35669079	12	6.13E-03	1	12
-0.560226658	12	3.20E+01	-0.262533058	12
0	5	2.81E-01	-0.045955997	5
0	6	2.62E-01	-0.682097482	6
-0.403652167	273	6.85E+22	-0.436974395	273
-0.545426504	33	1.15E+04	-0.555625637	33
-0.159753463	16	8.72E-01	-0.96841756	16
-0.468649921	16	3.51E+01	-0.544218338	16
-1	26	2.03E+08	-1	26
-0.178979244	11	8.70E-01	-0.924128389	11
-1	11	2.22E+03	-1	11
0.474936216	18	2.05E-04	-0.681679077	18

-0.324559828	4	1.14E+00	-0.987532012	4
-0.408570812	5	1.96E+00	-0.562645993	5
-2	5	2.06E+03	-2	5
-1	4	1.85E+01	-0.403324015	4
-0.310918604	52	6.38E+02	0.713167661	52
2	7	3.81E-07	2	7
0.376927873	2	1.22E-01	0.429054134	2
1	29	4.57E-11	0.334227225	29
-0.704814192	6	1.18E+01	-1	6
0.267110989	27	3.54E-04	-0.335266947	27
0.872509476	9	3.41E-04	-0.030591698	9
1	11	2.31E-06	-0.840342221	11
-0.348683929	10	3.24E+00	-0.154392477	10
-0.852314286	36	5.95E+07	0.132426401	36
-0.328031116	5	1.34E+00	-0.325013592	5
-2	14	4.71E+06	-0.990928999	14
0.169444214	3	1.81E-01	-0.143628544	3
2	5	7.66E-05	-0.074503967	5
0.342715009	2	1.34E-01	-0.061583823	2
-0.02208182	13	1.99E-01	0.674137002	13
-0.182039099	26	1.85E+00	-0.231385403	26
-1	4	5.20E+01	0.606106161	4
-1	2	6.46E+00	0.731361322	2
-1	4	8.46E+01	0.64273884	4
0.318908855	12	8.72E-03	-0.327141611	12
0.0555438	1	3.32E-01	-0.028310061	1
-0.788754108	9	7.09E+01	-0.13765653	9
-0.397872527	7	2.72E+00	-0.017242447	7
-0.476872438	22	1.65E+02	-0.166034108	22
-1	22	2.10E+06	0.141689241	22
-0.538888691	13	3.48E+01	-0.897249186	13
0.473842197	11	3.01E-03	0.664085349	11
-0.032988473	9	2.70E-01	-0.632591656	9
-1	5	4.65E+01	-0.466945389	5
0.451438735	6	2.28E-02	0.499981994	6
0.150320678	4	1.63E-01	0.459244319	4
-1	7	1.21E+03	-0.563791355	7
-0.515824394	12	2.12E+01	-0.214055669	12
-0.519157007	6	4.33E+00	-0.099828713	6
-0.530842317	10	1.40E+01	-0.467824238	10
-0.463233101	12	1.29E+01	-1	12
0.450823004	12	2.54E-03	-0.222478565	12
-0.428753991	12	9.38E+00	-0.52902879	12
-0.744822856	8	3.38E+01	-0.957329217	8
-0.161644315	10	7.22E-01	-0.11187444	10
0.005214883	15	1.31E-01	0.531435518	15
-0.15832486	3	5.58E-01	-0.520748689	3

0.793539734	11	1.87E-04	-0.573733611	11
0.32987289	12	7.87E-03	-0.612753177	12
-2	3	5.67E+01	-1	3
-0.412096887	20	3.96E+01	0.270806608	20
-0.247002065	36	1.53E+01	-0.075471704	36
-1	5	1.43E+02	-0.383555091	5
-0.160266318	22	1.08E+00	-0.444624133	22
-0.580645151	10	2.09E+01	-0.180085941	10
-0.014027594	12	1.95E-01	2	12
0.180824713	4	1.44E-01	-0.331659053	4
-0.245868089	13	1.86E+00	-2	13
0.263477878	4	1.03E-01	0.237193373	4
-1	5	1.37E+02	-0.436122029	5
-0.827794271	6	2.30E+01	-0.683404727	6
0.119995028	4	1.85E-01	-0.004327146	4
0.975698155	4	5.56E-03	-0.838257867	4
-0.624510404	5	5.46E+00	-0.781215059	5
-2	4	1.75E+02	-0.562190073	4
-2	5	9.06E+02	-0.958085832	5
-0.062100319	2	4.13E-01	-0.075684584	2
-0.002156035	3	3.26E-01	-0.109360017	3
0.788959658	11	1.95E-04	-0.370115434	11
0.131043849	12	5.04E-02	0.23182026	12
2	8	1.92E-08	1	8
2	8	2.59E-06	0.36094924	8
1	8	1.29E-05	-0.262633569	8
-0.159600382	5	6.00E-01	-0.013573852	5
-0.37861565	12	5.88E+00	0.317496064	12
0.329443793	2	1.39E-01	-0.121893831	2
-0.646025584	6	8.60E+00	-0.036915443	6
-0.884142282	4	1.13E+01	0.03602094	4
-2	7	4.44E+03	-0.580084767	7
-0.016471916	1	3.87E-01	-0.013716052	1
-0.484237476	4	2.19E+00	0.086376118	4
-0.340070167	3	1.04E+00	-0.37902155	3
-0.183036103	6	7.04E-01	-0.355108379	6
-1	7	2.99E+02	0.465855182	7
2	5	6.10E-05	2	5
0.182543877	2	2.09E-01	-0.209014397	2
0.172152463	21	6.58E-03	-1	21
-0.180953798	5	6.64E-01	0.002266032	5
-0.265659576	4	8.95E-01	-0.415546394	4
-0.042581817	1	4.09E-01	-0.022296586	1
0.151403552	21	9.02E-03	-0.449383369	21
-1	7	1.30E+02	-2	7
-0.399956682	10	4.89E+00	0.287465854	10
-0.308180768	15	4.51E+00	0.148908341	15

-2	2	3.35E+01	-0.461980014	2
-0.778392689	6	1.76E+01	-0.519682752	6
-0.806806086	10	1.28E+02	-0.393853256	10
-0.796068973	6	1.94E+01	0.288426168	6
0.443317995	4	4.92E-02	-0.380294005	4
-0.056551541	10	3.11E-01	-0.679802235	10
0.105586898	4	1.96E-01	0.032714281	4
1	13	9.39E-08	0.020511552	13
0.537690121	4	3.34E-02	0.285930547	4
0.528553272	4	3.47E-02	0.320786451	4
-0.987914726	5	3.07E+01	-0.809504538	5
-0.583539441	5	4.49E+00	-0.589428243	5
-1	7	1.66E+03	-0.32904828	7
0.083295935	23	1.98E-02	-0.040466873	23
0.474523701	11	2.99E-03	0.181134574	11
1	7	2.75E-04	0.861838148	7
0.361605103	12	5.85E-03	-0.492527946	12
-0.260962062	13	2.17E+00	-0.247591814	13
-0.022415379	1	3.91E-01	-0.009365982	1
-0.175766942	5	6.48E-01	-0.08004363	5
0.096613332	2	2.66E-01	0.035117645	2
-0.474536283	12	1.44E+01	-0.775614954	12
-0.497206781	4	2.31E+00	-0.459820428	4
-1	10	1.38E+04	-0.624260431	10
-0.380665023	4	1.43E+00	-0.231934108	4
-0.224219081	30	5.48E+00	1	30
-0.047999808	7	3.26E-01	-0.241336743	7
-0.273420697	4	9.24E-01	-0.001724098	4
-1	11	2.03E+04	0.387670133	11
0.009408609	3	3.14E-01	0.118771274	3
0.358604571	12	6.02E-03	0.678348453	12
-0.171962933	18	1.10E+00	-0.249438752	18
-0.246364195	8	1.19E+00	0.993352153	8
-0.195145406	2	5.98E-01	0.167012471	2
-0.788149348	9	7.06E+01	-0.23157227	9
-0.832796494	19	1.14E+04	-0.556765257	19
-0.822263801	15	1.51E+03	-1	15
-0.122026947	1	4.84E-01	-0.133472243	1
-0.625895159	9	2.14E+01	-0.825055957	9
-0.166637574	9	7.23E-01	-0.630690136	9
0.215463232	1	2.36E-01	-0.416126652	1
-0.188543619	18	1.37E+00	-0.284409689	18
-0.560677288	3	2.23E+00	-0.067246756	3
-0.050655791	2	4.00E-01	-0.027907098	2
-0.40148436	4	1.56E+00	-0.104740896	4
0.080736244	9	1.17E-01	-0.19031257	9
-0.280770363	6	1.19E+00	-0.255370301	6

-0.268442033	4	9.06E-01	-0.546308761	4
-0.542471495	4	2.78E+00	-0.206360985	4
-0.073521041	7	3.81E-01	-0.256914372	7
0.49185615	6	1.84E-02	2	6
-0.162248834	4	5.86E-01	0.216343611	4
-1	18	7.16E+05	0.868334742	18
-2	11	1.60E+05	-0.471534397	11
-0.20935791	13	1.29E+00	0.44186308	13
-0.611523156	2	1.91E+00	0.04190697	2
-0.088726406	2	4.45E-01	-0.533791226	2
-0.028258954	2	3.76E-01	0.015576019	2
1	3	8.32E-03	1	3
1	10	5.52E-06	0.531984568	10
-0.206920135	17	1.64E+00	-1	17
-0.012918545	27	7.59E-02	0.028878038	27
-1	4	2.29E+01	-1	4
0.36271144	12	5.79E-03	-0.484217797	12
2	8	6.55E-08	-0.87578706	8
-0.334681326	4	1.19E+00	-0.003700703	4
-0.020703308	4	3.28E-01	-0.052727108	4
-0.673471747	5	6.89E+00	-0.381090751	5
1	26	2.71E-13	0.762054344	26
0.139944541	19	1.49E-02	0.782967733	19
-0.979772526	14	5.05E+03	0.077754285	14
-0.932148241	8	1.19E+02	-0.3530641	8
0.170010974	12	3.50E-02	0.013400846	12
-0.039503851	12	2.48E-01	-0.254399664	12
-1	5	1.10E+02	-0.606673764	5
-0.170541958	3	5.82E-01	-0.011658713	3
-0.042203374	41	7.27E-02	0.432675598	41
-0.182430607	19	1.32E+00	-0.591855426	19
-0.036764484	4	3.51E-01	-0.195590839	4
-1	6	6.33E+02	-0.944257199	6
-0.013693277	2	3.61E-01	0	2
-0.320094885	17	6.82E+00	-0.808160679	17
-0.586207722	5	4.55E+00	-0.388747513	5
-0.356193015	8	2.49E+00	-0.374303287	8
-0.307648931	40	1.18E+02	-0.846011677	40
-1	6	3.25E+02	-0.395645574	6
-0.184503237	6	7.10E-01	-0.263958925	6
-0.455868182	9	6.10E+00	-0.43821162	9
-0.016830998	4	3.23E-01	-0.430631637	4
-0.84856117	11	2.91E+02	-0.14522536	11
0.018098276	11	1.57E-01	0.721306771	11
-1	16	9.59E+04	-0.419340523	16
-1	10	1.80E+04	-2	10
-0.925032868	5	2.27E+01	-0.628400174	5

-0.145259455	17	7.51E-01	-0.48878691	17
0.450870572	18	2.82E-04	1	18
-0.656109972	10	3.82E+01	-0.890735563	10
-0.271526967	4	9.17E-01	-0.128983871	4
-0.368458616	4	1.36E+00	0.114542764	4
-1	2	1.72E+01	-0.650331204	2
-0.300785782	4	1.03E+00	0.109044596	4
0.545896563	6	1.37E-02	-0.825068742	6
-0.033090164	4	3.46E-01	-0.050358224	4
-0.704461635	3	3.65E+00	-0.321661727	3
-0.327348264	3	9.98E-01	-0.308383216	3
0.301707102	3	1.15E-01	-1	3
0.009743812	13	1.45E-01	-0.027070146	13
-0.07013017	10	3.46E-01	-0.222289067	10
0.68374191	6	6.51E-03	-0.326543166	6
-0.230561269	26	4.54E+00	-0.214370554	26
-0.030732164	1	3.98E-01	0.962121459	1
-0.315979161	3	9.60E-01	-0.074965201	3
-0.220566056	12	1.34E+00	-0.346075457	12
0.122210203	45	3.76E-04	0.084283032	45
0.420699879	13	2.38E-03	-0.030551485	13
-0.441256933	16	2.53E+01	-0.803129513	16
-0.249575019	8	1.22E+00	-0.27069519	8
0.49903354	17	2.22E-04	-0.668835866	17
-0.532126913	15	5.67E+01	-0.382850733	15
-0.72211582	14	3.25E+02	-0.601093978	14
-0.501108348	10	1.10E+01	-0.242376849	10
-0.770270991	9	6.19E+01	-0.651116365	9
-0.133189505	26	7.49E-01	0.044609004	26
-0.095634809	3	4.50E-01	0.16752048	3
-0.004089807	8	2.34E-01	-0.123027968	8
0.008765721	2	3.39E-01	0.004976938	2
0.052234662	25	2.69E-02	-0.026087798	25
-0.209698491	23	2.53E+00	-0.108891421	23
-0.040950187	2	3.90E-01	0.033688194	2
0.448874796	6	2.32E-02	-0.096818693	6
-0.383132192	8	2.98E+00	0.074751284	8
-0.394652074	5	1.83E+00	0.120640133	5
-0.348137401	5	1.47E+00	0.284111792	5
0.369766078	7	2.60E-02	-0.494622075	7
2	5	3.66E-05	-0.097598735	5
1	16	2.17E-07	0.567124749	16
-0.33335878	7	1.84E+00	-0.26105778	7
0.277524071	8	3.53E-02	-0.292141244	8
0.092582437	2	2.69E-01	-0.347596828	2
0	3	3.24E-01	-0.026558333	3
-0.525575445	6	4.49E+00	-0.429090309	6

0.356567868	21	3.96E-04	-0.144471218	21
1	7	3.29E-04	-0.193874362	7
0.188181265	5	1.15E-01	-0.006548746	5
0.181396229	7	8.13E-02	0.197003465	7
0.902144294	4	7.51E-03	-0.160577539	4
-0.780991678	4	7.38E+00	-0.148788798	4
-0.236370195	9	1.21E+00	-0.327447822	9
-0.298179007	3	9.03E-01	0.087681334	3
-0.711197835	2	2.52E+00	0.009473018	2
-0.283092883	4	9.62E-01	-0.273832716	4
-0.902063543	6	3.43E+01	-0.128865943	6
0.570422565	4	2.92E-02	-0.993322038	4
-0.603054597	5	4.93E+00	-1	5
-1	18	1.84E+06	-0.954942829	18
-0.070576991	2	4.23E-01	-0.075762564	2
-0.087978807	13	3.84E-01	0.142399636	13
-0.535429902	8	8.28E+00	0.07718477	8
-0.854942553	40	4.51E+08	-0.236821752	40
-0.515811858	15	4.72E+01	-0.202293265	15
0.025515338	10	1.61E-01	-0.329597709	10
-0.183816218	12	9.53E-01	-0.452871928	12
-0.354823338	29	7.36E+01	-0.138920361	29
-0.07173475	4	4.05E-01	-0.050444822	4
-0.53672095	10	1.47E+01	-0.297246989	10
-0.385407474	17	1.55E+01	-0.168937921	17
0	2	3.48E-01	-0.140675799	2
0.617412042	4	2.41E-02	-0.194684294	4
-0.231496445	13	1.61E+00	-0.493626596	13
-0.116085244	23	5.37E-01	0.376361451	23
-0.986141539	4	1.71E+01	0.034681358	4
0.250805971	6	6.75E-02	-0.613823402	6
-0.791242673	10	1.13E+02	-0.110934566	10
-0.13344021	12	5.95E-01	0.011622477	12
0	5	2.81E-01	0	5
-0.395295765	7	2.68E+00	-0.49480242	7
-0.666317571	12	8.62E+01	-0.500737853	12
-2	2	2.96E+01	-1	2
-0.22044189	2	6.42E-01	-0.163529348	2
0	5	2.81E-01	-0.121137153	5
-0.316574559	3	9.62E-01	-0.001205531	3
-0.436539079	4	1.80E+00	-0.130197517	4
-0.459932965	6	3.15E+00	-0.255202704	6
-1	26	2.95E+08	-1	26
-2	2	4.89E+01	-0.925635411	2
-0.644867202	3	2.97E+00	0.230305619	3
0.75822718	6	4.35E-03	-0.32516625	6
-0.013658258	2	3.61E-01	0.083411758	2

0	2	3.48E-01	-0.074145504	2
-0.116330246	4	4.86E-01	-0.090916346	4
-1	4	2.84E+01	-1	4
0	1	3.73E-01	0	1
-0.01974385	1	3.89E-01	-0.008245269	1
0.234857772	9	3.75E-02	-0.291042018	9
0.901064159	2	2.83E-02	0	2
-0.016186444	10	2.25E-01	0.110367795	10
-0.439432898	4	1.82E+00	0.014360004	4
0.028094928	6	2.25E-01	2	6
-0.868973531	14	1.55E+03	-0.983423895	14
0.269997097	7	4.75E-02	-0.595220239	7
-0.821195837	7	3.54E+01	-0.612052357	7
0.965277111	2	2.37E-02	0.018562961	2
0.132522671	4	1.75E-01	-0.13347333	4
0.224646055	8	5.03E-02	0.331396043	8
-0.749563819	2	2.80E+00	-0.306460325	2
0.122488199	2	2.47E-01	-0.258356413	2
-0.976076854	2	5.26E+00	-2	2
-1	2	1.49E+01	-1	2
-2	3	1.09E+02	-1	3
1	6	5.09E-04	-0.672722571	6
0	2	3.48E-01	0	2
-0.705120008	6	1.18E+01	0	6
-0.575356225	3	2.34E+00	0	3
-0.694206743	17	7.64E+02	-0.712119622	17
-1	30	8.69E+07	0.247286545	30
-0.4637601	51	1.16E+05	-0.350664805	51
-0.37631249	9	3.39E+00	-0.630905209	9
-0.654239294	8	1.84E+01	-0.041010769	8
-0.342471508	9	2.64E+00	-0.133054641	9
-0.312803079	10	2.43E+00	0.313545905	10
-0.075070733	3	4.19E-01	1	3
-0.785014314	9	6.90E+01	0.523162117	9
-0.529082489	15	5.48E+01	-0.076078355	15
0.33347036	67	9.33E-10	0.777075996	67
-0.638826541	12	6.67E+01	-0.726545305	12
-0.857430215	13	8.39E+02	0.704083332	13
-0.111470394	6	4.78E-01	0.563042021	6
-0.453877947	33	1.39E+03	1	33
-0.328884438	17	7.62E+00	0.111914045	17
-0.079430105	21	3.04E-01	-0.604345365	21
-3	24	7.02E+17	-3	24
-0.170862886	4	6.07E-01	-0.344011558	4
-0.72564639	13	2.25E+02	-1	13
-0.011296507	5	2.97E-01	-0.037606398	5
0.298703494	9	2.34E-02	0.407816046	9

-0.247517844	18	2.99E+00	-0.394060728	18
0	4	3.02E-01	0.002113929	4
-0.87602824	7	4.93E+01	-0.858488797	7
0.20549555	3	1.60E-01	-0.181414746	3
0.428195741	15	1.10E-03	-0.287497289	15
-0.047547414	4	3.67E-01	2	4
-0.192188633	6	7.40E-01	0.015148871	6
0.075075441	3	2.50E-01	0.19698864	3
0.770372124	13	7.24E-05	0.432982924	13
0.248547492	11	2.13E-02	0.021853496	11
1	47	1.20E-22	-1	47
-0.749153654	23	1.90E+04	0.973607963	23
2	10	2.33E-08	-0.855026778	10
-0.150733434	25	1.01E+00	-0.272402555	25
0.118235928	1	2.90E-01	0	1
2	8	6.47E-06	-0.342113802	8
0.796316993	1	6.86E-02	-0.809706254	1
-0.028073798	3	3.57E-01	-0.21526554	3
0.562160138	12	9.00E-04	0.202825844	12
-0.44803762	16	2.74E+01	-0.149615326	16
-1	18	2.32E+06	-0.769840908	18
-0.108421864	9	4.71E-01	0.468517729	9
-0.002635079	11	1.88E-01	-0.17740268	11
-0.067747379	5	3.88E-01	-0.209503082	5
-0.716064473	10	6.18E+01	-0.944231064	10
-0.405400262	6	2.34E+00	-0.148685452	6
-1	8	3.02E+02	-0.8751418	8
-1	4	5.56E+01	-0.783387416	4
-0.516071581	2	1.46E+00	-0.334610296	2
-1	5	3.44E+01	-0.952161306	5
-0.000713612	7	2.45E-01	-0.04069028	7
-2	4	3.83E+02	-0.404898233	4
-0.464822029	18	5.35E+01	-0.55746446	18
-0.03253569	7	2.97E-01	-0.294255135	7
-0.245337639	6	9.86E-01	-0.110365028	6
-1	10	1.08E+03	-1	10
-0.209644166	19	1.93E+00	-0.093938931	19
-0.905209176	8	9.92E+01	-0.435132103	8
0.729580373	15	3.63E-05	-0.244208094	15
-0.260924706	5	9.71E-01	-0.034451276	5
0.001884634	4	2.99E-01	-0.021675166	4
0.419931899	5	3.83E-02	-0.908139667	5
-2	6	2.56E+03	-0.678915794	6
-1	6	2.33E+02	-1	6
-0.932876391	14	3.06E+03	0.089370693	14
-0.846512444	12	4.64E+02	0.764230536	12
0.35666526	3	9.50E-02	-0.182392332	3

0.33254285	6	4.34E-02	-2	6
-0.39740021	10	4.79E+00	-0.088778412	10
-0.73756978	9	4.86E+01	1	9
-0.711246521	14	2.89E+02	-0.045222958	14
0.078386752	11	9.31E-02	-0.2945037	11
0.39543454	8	1.60E-02	-0.228811957	8
0.000988518	1	3.72E-01	2	1
-0.310927738	12	3.12E+00	1	12
-1	14	5.90E+04	-0.888901744	14
-0.511944065	16	5.88E+01	0.036707837	16
0.787011483	3	2.16E-02	-0.10513025	3
-0.538336455	3	2.06E+00	-0.131376089	3
-0.274206759	6	1.15E+00	-0.485360588	6
0.175772801	6	1.01E-01	-0.110957358	6
0.113874389	7	1.22E-01	-0.187000612	7
-0.453630011	23	1.43E+02	-0.457395325	23
-0.025923029	1	3.94E-01	-0.010839279	1
-0.025923029	1	3.94E-01	-0.010839279	1
-0.025923029	1	3.94E-01	-0.010839279	1
-0.155541159	14	7.79E-01	-0.35541285	14
0.160625055	10	5.44E-02	-0.205333495	10
0.65292142	15	8.64E-05	-0.728717689	15
-0.019302321	7	2.74E-01	-2	7
1	12	9.20E-06	-1	12
0.097378635	4	2.03E-01	-0.182344731	4
-0.60775619	14	9.61E+01	-0.309200313	14
-0.39521672	22	4.51E+01	1	22
-0.041536747	54	4.05E-02	0.875968645	54
-0.021076063	2	3.69E-01	0	2
-0.328007405	17	7.53E+00	-0.710098571	17
0.323589523	3	1.06E-01	-0.101228576	3
-0.675438653	10	4.46E+01	-0.853963815	10
-0.328764147	10	2.76E+00	0.120052917	10
-0.647627224	4	4.28E+00	0.140634622	4
-0.525108317	11	1.76E+01	-0.253740465	11
-1	13	1.08E+04	0.671008262	13
-1	9	2.01E+03	-0.692669098	9
-0.356807882	17	1.08E+01	-1	17
-0.788431645	18	3.92E+03	-0.982581774	18
-0.827896289	1	2.17E+00	-0.614574747	1
0.592092115	23	4.37E-06	-0.219476765	23
0.88140342	36	7.95E-12	-0.282868799	36
-0.068066907	7	3.69E-01	-1	7
-0.516423217	3	1.91E+00	-0.208845442	3
-0.728937007	13	2.32E+02	-0.321546411	13
-0.499161649	37	1.10E+04	0.287767867	37
-0.567504941	7	7.60E+00	-0.515308353	7

0.326578963	38	4.93E-06	-0.249184227	38
-0.826640477	12	3.85E+02	-0.406603624	12
-1	12	5.75E+04	-0.794097626	12
-0.351339555	15	7.35E+00	-0.784355356	15
-0.993380385	13	3.27E+03	-0.800434817	13
-0.251879559	5	9.30E-01	1	5
-0.576069413	32	1.72E+04	1	32
-1	17	6.74E+04	-0.172792626	17
-0.967008236	24	1.23E+06	0.697630663	24
0.037589457	36	1.22E-02	-1	36
-0.027534786	28	9.53E-02	-2	28
-0.41998859	13	1.06E+01	-0.104128978	13
-0.642224571	14	1.39E+02	-0.462860582	14
-0.055895472	3	3.93E-01	-0.051864366	3
-0.134809799	5	5.33E-01	-0.046785779	5
-0.508881704	14	3.35E+01	-0.38023148	14
0.021323409	8	1.97E-01	-0.742763753	8
-0.009537935	5	2.94E-01	-0.002656961	5
-0.636852565	46	8.60E+06	-0.340129902	46
-0.408970294	17	2.09E+01	-0.217449264	17
-0.077713905	18	3.14E-01	-0.139047455	18
-0.144340798	9	6.14E-01	-0.142575866	9
0.186793178	11	3.63E-02	-0.140438215	11
-0.234744587	14	1.81E+00	-0.259872527	14
-0.452323357	15	2.30E+01	-0.383750476	15
-0.39459873	6	2.21E+00	-0.045023473	6
-0.855325601	9	1.16E+02	-0.273442001	9
-0.86403308	20	2.88E+04	-0.981368393	20
-0.152169029	33	1.30E+00	0.302171383	33
-0.427055478	1	9.26E-01	0.420561792	1
-0.510842701	17	7.56E+01	0.618125251	17
0.28733104	23	6.77E-04	2	23
-1	38	6.07E+10	-1	38
-0.269923529	12	2.13E+00	-0.586518803	12
-0.849306949	14	1.26E+03	-0.064854606	14
-0.433188057	4	1.78E+00	-1	4
0.933644203	14	7.16E-06	-0.739590703	14
-0.72924028	6	1.35E+01	0.610900224	6
1	13	1.76E-07	1	13
0.328115168	5	5.92E-02	0.071840272	5
-0.183333529	5	6.72E-01	0.212400603	5
-0.244062547	15	2.19E+00	-0.140852694	15
-0.673642817	6	9.98E+00	0.112311649	6
-0.492595291	5	2.92E+00	-0.466946228	5
-0.979272483	6	5.21E+01	-0.463589889	6
-0.956123892	5	2.64E+01	-0.118008138	5
-1	12	1.79E+05	-0.975434624	12

0.034501107	13	1.13E-01	1	13
0	3	3.24E-01	-0.11758078	3
-0.213368035	16	1.66E+00	-0.272735073	16
0.343922906	18	1.17E-03	-0.672544613	18
-2	6	1.65E+03	-0.859936534	6
-0.113674554	24	5.18E-01	-0.111104812	24
-0.033928177	4	3.47E-01	-0.228282578	4
-0.806501618	13	5.05E+02	-0.57400285	13
-0.893406433	19	2.64E+04	-0.132352284	19
-0.451466469	15	2.28E+01	-0.252606556	15
-1	12	1.77E+04	-0.422329231	12
-0.380130581	7	2.44E+00	0.365227476	7
0.394736435	11	5.97E-03	-0.362014752	11
2	6	4.54E-06	-0.681949802	6
-0.521045983	16	6.56E+01	-0.420586551	16
-0.326680088	21	1.31E+01	-0.263011068	21
1	13	1.28E-06	-0.35759774	13
1	4	9.64E-04	-0.274500036	4
0.986968977	2	2.23E-02	0	2
0	10	1.97E-01	0	10
-0.259777711	2	7.16E-01	-0.399301047	2
0	2	3.48E-01	0	2
0.120730634	6	1.36E-01	-0.523808929	6
0.169397039	9	6.08E-02	-0.190296419	9
-0.373961641	2	9.84E-01	-0.503118174	2
0.855173741	2	3.22E-02	-0.170436711	2
0.171573393	6	1.04E-01	-0.553863531	6
-0.24778665	17	2.74E+00	-0.011476158	17
-0.169263016	4	6.03E-01	0.23211678	4
0.092406005	16	4.27E-02	-0.110093465	16
0.146988106	5	1.40E-01	-0.880942729	5
-0.572187291	26	2.53E+03	-0.499483363	26
-0.918056512	3	7.61E+00	-0.450500953	3
-0.672110603	31	1.02E+05	-0.580124203	31
-0.421852502	6	2.56E+00	-0.680260337	6
-1	19	5.22E+07	-0.893459819	19
-0.938592266	7	7.20E+01	-0.88247356	7
-0.969039042	11	8.28E+02	0.328392719	11
0	4	3.02E-01	-0.140147891	4
-0.621585818	9	2.07E+01	-0.766267707	9
-0.697765394	5	7.73E+00	-0.635425467	5
0	2	3.48E-01	-0.001029595	2
0.075896744	23	2.24E-02	-0.218404736	23
-0.438182364	18	3.75E+01	-0.538672995	18
0	5	2.81E-01	0.134400016	5
-0.750442366	10	8.15E+01	-0.502542253	10
-0.728231522	16	7.82E+02	-0.085223119	16

-0.54455838	23	6.44E+02	-0.383111006	23
0.024425763	3	2.98E-01	-0.072949484	3
-0.565333611	25	1.65E+03	1	25
-0.488823208	9	7.78E+00	-0.157595526	9
-0.345795717	11	3.70E+00	-0.400474916	11
-0.392975044	7	2.64E+00	-0.246048274	7
-0.020649352	19	1.39E-01	0.224218345	19
-1	11	8.03E+03	0.492929001	11
-1	2	9.71E+00	-0.05958507	2
-0.976099099	5	2.90E+01	-0.42504062	5
-0.276158261	7	1.30E+00	-0.086613855	7
-0.221793931	14	1.58E+00	-1	14
-0.925189472	5	2.28E+01	-0.41307623	5
-0.176590447	2	5.68E-01	-0.124188697	2
-0.04262569	3	3.75E-01	-0.888806276	3
-1	36	1.49E+12	-1	36
-1	10	2.26E+03	-1	10
-0.07911618	4	4.17E-01	-0.091586008	4
-0.423867199	46	1.02E+04	-0.209390199	46
-0.358635927	11	4.14E+00	0.199158219	11
-0.600330972	20	6.16E+02	-0.096091625	20
0.231516652	15	1.01E-02	-1	15
-0.936586385	6	4.14E+01	-0.924934404	6
-0.431491604	14	1.47E+01	-0.351476738	14
-0.850464666	11	2.96E+02	-0.860524833	11
0.454023746	4	4.70E-02	-0.522203891	4
0	1	3.73E-01	0.00846591	1
0	1	3.73E-01	0.00846591	1
0.061259077	1	3.28E-01	0	1
-0.205922824	8	9.06E-01	-0.1095879	8
-0.201062282	34	4.28E+00	-0.74201961	34
-0.016479825	2	3.64E-01	-0.064727026	2
-0.02166463	8	2.63E-01	-0.345354939	8
0.684989048	15	6.01E-05	-0.160850492	15
-0.342553367	24	2.65E+01	-0.123459705	24
-0.05568511	16	2.51E-01	-0.396150971	16
-0.401772214	28	1.59E+02	-0.117285059	28
0.3420965	2	1.34E-01	-0.236720616	2
0.130717334	1	2.83E-01	0.002448261	1
-0.163754	13	8.20E-01	-0.0226676	13
2	17	6.85E-11	-0.2013332	17
-0.757874478	24	3.36E+04	-0.696948053	24
-0.171499028	4	6.09E-01	-0.170180509	4
-2	8	1.85E+04	-1	8
-0.500699112	33	4.09E+03	0.343340517	33
0.057371871	13	9.00E-02	-0.63810421	13
-0.236144156	16	2.17E+00	-0.6420762	16

2	8	8.28E-08	-0.068973213	8
-1	26	9.99E+08	-1	26
-1	10	9.87E+03	-0.848841066	10
-0.615926143	2	1.93E+00	-0.256839258	2
-0.981362852	48	1.46E+12	-0.685617772	48
-0.345327049	9	2.70E+00	-0.871975443	9
-0.527730377	12	2.36E+01	0.848840545	12
-0.201012074	3	6.47E-01	-0.694801598	3
0.018715453	33	2.51E-02	-0.355692894	33
-0.595061391	20	5.70E+02	-0.960669019	20
0.444352011	15	9.12E-04	2	15
0.366985565	24	1.33E-04	-0.940215136	24
-0.217930002	3	6.85E-01	-0.233018306	3
-0.181805902	3	6.05E-01	-0.417036241	3
-0.542257014	14	4.78E+01	-0.834998064	14
0.200910378	7	7.22E-02	0.004827535	7
-0.292907295	8	1.63E+00	0.171222169	8
-0.703781331	33	4.46E+05	-0.395793209	33
2	8	8.99E-06	1	8
-0.008818836	9	2.26E-01	-0.515604839	9
-1	37	5.72E+10	-1	37
-0.209408953	25	2.87E+00	-0.816680189	25
1	5	1.39E-03	0.188007262	5
0.949974698	16	1.50E-06	1	16
1	17	1.11E-07	1	17
-0.858546625	6	2.71E+01	0.424243385	6
0.267609579	11	1.80E-02	1	11
-1	71	1.93E+19	-1	71
0.306311708	26	2.19E-04	-0.216000915	26
-0.046994624	1	4.12E-01	0.00749887	1
0	3	3.24E-01	0	3
2	6	1.35E-05	-0.470505008	6
1	6	1.93E-04	-0.14186988	6
-1	6	7.08E+01	-0.530546505	6
-0.613259052	18	3.83E+02	-0.2092495	18
-0.370144237	38	4.73E+02	0.923354398	38
-0.935110155	7	7.05E+01	-0.325386455	7
0.650045746	6	7.81E-03	-0.185970462	6
-2	6	2.09E+04	-0.918427245	6
-0.946664233	12	1.18E+03	-0.671516165	12
0.042660913	18	6.36E-02	-0.643981127	18
-0.017078067	4	3.24E-01	-0.006044189	4
-2	4	3.40E+02	-0.717598574	4
0.353002718	9	1.57E-02	-0.201809752	9
-0.01424842	17	1.44E-01	0.332507141	17
-0.782487262	11	1.64E+02	-0.489402	11
-0.134159977	19	6.76E-01	-1	19

-0.519918443	76	7.02E+08	-0.660716667	76
-2	18	5.51E+08	-2	18
-0.042493939	4	3.59E-01	-0.168878157	4
-2	5	1.23E+04	-2	5
0.161289949	7	9.18E-02	-0.66218137	7
-0.324496178	5	1.31E+00	0.18931408	5
0.240313796	16	7.29E-03	0.34974191	16
0.268834099	4	1.00E-01	0.232721676	4
-0.377344187	6	2.01E+00	-0.226540948	6
-2	6	2.18E+03	-0.956404136	6
-2	14	5.07E+07	-2	14
-1	7	2.20E+02	-0.569932565	7
-0.298491436	2	7.98E-01	-0.138320365	2
-0.367967262	4	1.36E+00	-0.186036937	4
-0.223191401	6	8.75E-01	-0.223698334	6
0.022138758	2	3.27E-01	0.018745132	2
0.033736061	1	3.47E-01	0.028564698	1
0.212102174	2	1.93E-01	0.180615849	2
-0.682611037	19	1.40E+03	-0.484009556	19
-1	25	1.24E+09	-2	25
-0.391962558	15	1.16E+01	0.383643712	15
-0.747860069	2	2.79E+00	0.350273825	2
-1	9	2.77E+03	-0.704853249	9
-0.289087861	39	6.28E+01	0.510467144	39
-0.208900747	2	6.22E-01	-0.096571875	2
-0.519890148	6	4.35E+00	-0.265226987	6
-1	5	9.57E+01	-0.988214109	5
-0.243310682	14	1.98E+00	0.344347846	14
-0.563798742	22	6.57E+02	-0.476211358	22
-0.48582618	2	1.34E+00	-0.395723751	2
-1	32	7.32E+09	-0.579347755	32
-0.319180454	32	5.37E+01	-0.5465733	32
0.089455559	18	3.42E-02	-0.124391078	18
0	1	3.73E-01	0	1
-0.400724866	11	5.96E+00	-0.520328773	11
-0.546217353	5	3.76E+00	-0.482649957	5
-0.024998619	7	2.84E-01	-0.574830225	7
-2	12	1.15E+06	-1	12
0.925269663	2	2.65E-02	-0.11806806	2
-2	8	4.19E+06	-2	8
-1	11	1.12E+03	-0.150373473	11
0.269128769	3	1.28E-01	-0.714773567	3
-0.91979851	14	2.67E+03	-1	14
0.553023181	5	2.03E-02	-0.22041806	5
-2	13	1.59E+07	-0.041644387	13
-0.233017129	9	1.18E+00	-0.277034206	9
-0.994004917	10	5.76E+02	-0.316216073	10

-0.768784782	3	4.55E+00	-0.534281494	3
-0.376210288	3	1.18E+00	-0.702460997	3
-0.408291531	15	1.40E+01	-0.125647754	15
-0.30874287	4	1.07E+00	-0.376355452	4
-0.546307278	11	2.11E+01	-0.743623919	11
0.382921243	9	1.26E-02	-1	9
-0.2232179	13	1.48E+00	-1	13
0.03646741	6	2.15E-01	0.633022441	6
0.163526839	13	3.11E-02	-0.42218084	13
-0.221089103	16	1.82E+00	-0.754168397	16
0.039027014	7	1.93E-01	-0.923366544	7
-0.773687974	5	1.11E+01	-1	5
-0.223041056	4	7.52E-01	-0.166812846	4
-0.535185237	5	3.57E+00	-1	5
-0.276750154	27	1.19E+01	-0.425123784	27
-0.324887291	7	1.75E+00	-0.311272172	7
-2	3	1.13E+02	-1	3
0.278523276	5	7.49E-02	-0.429043905	5
-0.047337496	5	3.52E-01	-0.063807776	5
0	2	3.48E-01	0	2
-0.888600116	23	1.91E+05	0.356666253	23
0.237391553	6	7.26E-02	-0.101852031	6
-0.770263458	6	1.68E+01	-1	6
-0.161304863	5	6.05E-01	-0.223323678	5
-0.186762313	8	7.97E-01	-0.15770038	8
-0.414262578	5	2.01E+00	-0.087961495	5
0.01935881	6	2.36E-01	-0.053711492	6
-0.449836534	6	2.98E+00	-0.850382759	6
0.511384123	6	1.65E-02	-0.587507243	6
-0.428852914	4	1.75E+00	-0.513944311	4
-0.66243333	32	1.19E+05	-0.547166442	32
-0.770061029	13	3.51E+02	-1	13
-0.361769519	2	9.51E-01	-0.403078393	2
0.514394598	2	8.31E-02	-0.674775509	2
0.011824233	2	3.36E-01	0	2
-0.541750617	27	1.92E+03	-0.878564847	27
-2	5	7.05E+02	-0.288672757	5
-0.433581345	9	5.18E+00	-0.418972337	9
0.152410398	14	2.93E-02	0.218763798	14
-0.220724822	2	6.43E-01	0.038476829	2
-0.744684027	10	7.78E+01	-0.60852551	10
-3	8	4.82E+08	-2	8
-2	8	7.82E+03	-3	8
-0.171758343	12	8.52E-01	-0.308947745	12
-0.08175614	2	4.37E-01	0.070197567	2
-1	33	4.06E+10	-0.638154744	33
-1	13	3.82E+04	0.031333123	13

-0.561082388	35	2.99E+04	1	35
-1	10	1.86E+03	-0.136656605	10
-0.728392107	3	3.96E+00	-0.000999576	3
-0.678827818	1	1.58E+00	-0.013716052	1
0.096803622	1	3.04E-01	0	1
-0.142299852	21	7.92E-01	-0.3775266	21
-0.060286483	1	4.24E-01	-0.074147071	1
-0.141600681	12	6.43E-01	-0.403275603	12
-0.521342928	4	2.55E+00	-1	4
1	3	5.21E-03	-0.198012593	3
-0.078047669	26	2.70E-01	0.404412354	26
-1	6	1.57E+02	-0.976154684	6
-0.329674149	50	9.30E+02	-0.714317759	50
-0.193600025	6	7.46E-01	-0.114700482	6
-1	12	5.42E+04	-0.7580365	12
-2	27	1.92E+13	-2	27
1	3	9.50E-03	-0.29167465	3
0.224131714	12	2.11E-02	-0.096311379	12
-0.618869474	6	7.43E+00	-0.906091572	6
-0.045081668	1	4.11E-01	-0.109959987	1
0.369683969	7	2.60E-02	-0.361400262	7

XXX-cells

BC_10			
FDR	polii	gatc.num	FDR
8.05E+00	-0.100745146	14	3.92E+00
3.61E+00	0.048713038	12	1.11E+00
3.10E-01	0.085203794	26	1.64E+00
5.45E-08	2	17	1.14E-06
2.74E+02	-1	7	2.46E+02
4.08E+00	0.221565043	6	3.87E-01
2.06E+00	0.187279564	13	4.40E-01
1.36E+03	-0.534929857	27	7.33E+03
4.02E-01	0.365284201	20	6.95E-02
9.42E+01	-0.347251631	30	1.20E+03
5.32E+00	-0.61095465	8	2.18E+01
2.48E-01	-0.315760307	9	6.47E+00
3.55E+02	0.0378067	12	1.20E+00
2.34E+01	-0.589376224	4	4.83E+00
5.57E-01	0.061241224	47	7.22E+00
1.28E-01	0.968515698	6	1.99E-02
9.40E-02	1	8	3.49E-03
5.42E-02	1	5	8.20E-03
4.26E-01	0.246411858	3	3.82E-01
6.98E+00	-0.848856553	7	4.36E+01
5.53E+01	-0.138121148	9	2.51E+00
6.55E+01	0.033000157	19	2.00E+00
1.22E+00	-0.136722922	10	2.88E+00
3.89E+04	-0.500097285	25	2.47E+03
4.93E+00	0.000932791	5	8.57E-01
1.57E+04	-0.105030175	25	1.71E+01
2.97E+00	-0.046568652	16	3.20E+00
4.16E+00	-0.525717712	10	2.74E+01
2.44E+00	0.528867391	10	6.12E-02
5.85E+00	0.507821872	6	1.24E-01
3.94E-01	-0.128780745	73	2.09E+04
3.85E-01	0.000414905	7	1.01E+00
4.32E-01	0.129011447	10	6.19E-01
9.30E-01	0.07962522	5	6.49E-01
4.38E-01	-0.013356365	1	6.30E-01
4.02E+01	-0.710654006	15	6.05E+02
1.27E-01	-0.464636861	15	8.35E+01
4.41E-01	0.112759277	1	5.07E-01
4.35E-01	0.038583896	11	1.12E+00
4.35E-01	0.024237674	2	6.35E-01
1.88E-04	0.660593996	35	1.30E-04

3.61E-01	-0.063413695	12	2.36E+00
9.40E-05	0.811831393	16	2.16E-03
1.64E-01	-0.379433737	35	6.94E+03
1.26E+00	0.240731372	16	2.78E-01
6.36E-01	0.828025519	22	3.28E-04
2.51E-01	-0.144162462	17	8.52E+00
2.76E-01	0.002288118	3	7.23E-01
7.04E-01	0.035718729	13	1.30E+00
1.27E+01	-0.267986809	12	9.27E+00
2.54E-01	-0.099204268	11	2.64E+00
1.50E-01	0.116650758	6	5.88E-01
1.11E-07	1	18	3.65E-05
1.00E+00	0.041090219	12	1.17E+00
2.83E-02	0.107968242	22	1.06E+00
1.49E-01	0.23693875	11	3.24E-01
4.41E-01	0.003383607	8	1.09E+00
1.12E+01	-0.208865596	9	3.66E+00
3.16E-11	1	43	2.59E-11
5.28E-02	0.738020253	3	1.05E-01
2.01E-01	0.034613102	9	9.98E-01
4.58E-01	-0.023251185	4	8.49E-01
1.53E+01	-0.565480064	7	1.24E+01
5.77E+00	-0.19490714	11	4.79E+00
4.38E-01	0	1	6.16E-01
3.22E+03	-0.475043065	33	1.96E+04
4.76E+01	-0.274568465	18	3.37E+01
4.69E-01	-0.112282729	6	1.46E+00
4.80E+04	-2	12	5.06E+05
2.43E+00	-0.396601433	6	4.52E+00
5.86E-02	0.534579176	32	1.81E-03
2.13E+00	0.002293555	5	8.53E-01
1.86E+00	0.206874173	6	4.11E-01
7.90E+01	0.754654768	11	1.28E-02
3.50E-01	0.105802035	1	5.14E-01
1.08E-01	0.852243942	5	4.27E-02
6.98E-04	0.544176233	21	9.33E-03
7.12E-01	0.723810254	33	7.20E-05
4.79E-01	-0.111502017	7	1.67E+00
3.09E+06	-1	14	6.47E+04
6.41E-01	0.136699612	4	5.20E-01
1.77E+00	-0.038929321	8	1.34E+00
6.01E-01	-0.18113126	5	1.63E+00
1.33E+01	-1	3	2.87E+01
1.72E+08	-0.49420893	63	2.70E+08
1.89E+01	-0.102247091	31	3.60E+01
3.10E+02	-0.039141535	15	2.72E+00
1.07E+00	-0.451076658	3	2.37E+00

2.28E-01	-0.126974267	10	2.72E+00
7.79E-02	-0.177063788	6	1.89E+00
1.51E+06	-0.310165341	44	1.59E+04
5.09E-01	-0.016924672	3	7.60E-01
9.19E-01	0.031340149	7	8.84E-01
2.79E-01	0.04923532	12	1.11E+00
3.03E-01	0.030085723	9	1.02E+00
4.56E-01	0.049599484	4	6.79E-01
1.57E-01	0.307554445	8	2.46E-01
6.93E-01	0.211518088	11	3.79E-01
1.03E-01	0.768728947	11	1.17E-02
4.91E-01	0.168415058	7	4.82E-01
2.89E-01	0.478990999	10	8.16E-02
4.93E-04	0.328159049	47	1.76E-02
5.86E-01	0	4	7.91E-01
1.35E+00	-0.078988001	33	3.21E+01
1.54E+02	-0.542274484	12	5.82E+01
8.68E-01	1	4	1.37E-02
9.00E+00	0.149924068	11	5.57E-01
1.50E+00	-0.089004819	7	1.51E+00
8.62E+07	-0.434906819	44	2.24E+05
5.04E-01	-0.188285045	5	1.67E+00
4.62E-01	-0.010797418	1	6.27E-01
5.14E-01	-0.305104628	15	2.31E+01
2.30E+00	-0.4407911	18	1.61E+02
1.37E-27	1	100	5.93E-25
6.67E-01	-0.075555544	22	8.30E+00
1.02E-05	0.811210316	19	9.28E-04
1.07E-01	0.089124136	33	2.10E+00
1.87E-18	2	42	3.28E-15
6.43E-03	0.056805191	26	2.37E+00
5.34E-01	-0.209837558	15	1.07E+01
1.82E-01	0	23	3.87E+00
1.99E+00	0.015221126	12	1.39E+00
7.08E+06	-0.387288771	69	5.28E+07
4.20E-01	0.08618056	6	6.64E-01
3.10E-03	0.784172684	18	1.59E-03
4.24E-18	2	34	1.70E-14
7.56E-02	0.654352359	16	8.25E-03
1.22E-01	0.048608958	16	1.43E+00
1.57E+02	0.03675895	13	1.29E+00
3.87E-10	1	29	3.56E-07
3.01E-01	0.009637325	5	8.31E-01
9.31E-01	-0.136360639	8	2.15E+00
1.90E+00	-1	3	1.25E+01
7.05E-01	-0.164812824	7	2.11E+00
1.06E+00	0.168210284	2	4.65E-01

3.64E-01	0.000588662	10	1.30E+00
1.28E+01	-0.310733673	12	1.23E+01
4.61E-01	0.010358368	5	8.29E-01
7.95E-01	-0.080636401	13	2.98E+00
1.34E-01	0.553537677	2	2.02E-01
8.66E-09	2	15	9.71E-07
8.54E-08	0.691118634	40	2.45E-05
1.18E-11	2	19	5.09E-10
1.26E-22	3	35	4.71E-20
4.32E-02	0.28019617	25	1.35E-01
1.27E-01	0.647671998	6	7.12E-02
5.34E-01	0.064888407	11	9.47E-01
4.04E+01	-0.394116522	12	2.16E+01
7.59E-01	-0.112173454	7	1.67E+00
3.05E-01	-0.033466227	8	1.30E+00
1.21E+00	-0.036356481	42	3.95E+01
9.06E-03	0.797652493	6	3.92E-02
1.95E-02	0.961306539	4	4.13E-02
3.59E-02	0.259885239	15	2.45E-01
1.35E+00	-0.218551418	26	8.57E+01
2.71E-04	0.389395159	42	7.04E-03
9.30E-01	0.046461687	33	4.20E+00
2.96E+04	0.04842298	119	8.13E+02
5.30E-01	0.019938135	4	7.44E-01
3.09E+00	-0.639179266	5	8.18E+00
1.86E-02	0.585993617	26	2.40E-03
6.85E+03	-0.886406912	13	9.45E+02
4.78E+01	-0.147223013	31	7.17E+01
1.11E+02	-2	11	3.33E+04
9.44E+01	-0.407928897	14	4.05E+01
5.41E-01	-0.064481805	2	7.69E-01
2.84E+00	0.175986995	77	6.10E-01
1.31E+01	-0.873916126	7	4.87E+01
1.70E+00	-0.01942443	5	9.21E-01
4.74E-01	0	1	6.16E-01
4.38E-01	0	1	6.16E-01
2.83E-01	1	2	4.18E-02
9.83E-03	0.196914198	15	4.06E-01
1.31E-02	0.276053249	32	1.06E-01
5.35E-01	0.175838068	11	4.74E-01
4.67E-01	-0.000113821	1	6.16E-01
3.91E-01	0.004653609	6	9.18E-01
2.51E-01	0.037932381	10	1.05E+00
4.01E-01	0.141472048	13	6.10E-01
3.16E-01	-0.020668086	23	4.92E+00
3.58E-01	0	5	8.60E-01
3.73E-01	0.006120372	13	1.61E+00

2.83E-01	0	7	1.02E+00
3.84E-01	0.095053408	2	5.45E-01
4.77E-10	1	46	9.01E-13
1.21E-04	2	6	4.74E-04
4.91E-01	0.086680499	11	8.26E-01
1.78E+06	-0.571867934	28	1.70E+04
7.49E-04	1	15	3.19E-04
4.65E-01	0.060674928	69	2.51E+01
3.78E-01	0.064186865	34	3.33E+00
4.98E-06	0.847197419	45	2.66E-07
1.71E-01	0.184047216	23	4.51E-01
2.96E-08	1	26	7.00E-06
2.53E-07	3	7	5.60E-06
3.32E-01	-0.024776789	4	8.53E-01
4.64E-01	0	3	7.28E-01
6.55E-01	0.043583049	21	2.05E+00
4.78E-02	0.321023953	27	7.12E-02
4.52E-01	0.122612944	8	6.07E-01
6.17E+00	-0.190028829	17	1.29E+01
5.75E-04	0.687239987	21	2.00E-03
6.65E+03	-1	12	2.15E+03
1.45E+00	-0.187464038	6	1.97E+00
3.89E+01	-0.432442411	31	5.63E+03
8.29E+02	-0.61022992	20	1.63E+03
1.87E+00	0.751643116	5	6.08E-02
3.78E-02	0.402383739	8	1.55E-01
1.99E-01	0.174373156	16	4.89E-01
4.78E+00	-0.283029199	9	5.44E+00
3.35E+00	0.216742675	16	3.41E-01
3.54E-03	1	10	2.26E-03
1.42E+00	0.728677652	2	1.38E-01
2.14E-01	-0.039357975	12	2.01E+00
1.03E-01	0.557911671	12	3.69E-02
7.83E-27	1	76	2.68E-21
2.16E-01	0.009412297	17	2.15E+00
4.21E-01	-0.000581111	3	7.29E-01
3.45E-01	0.003819412	12	1.50E+00
1.61E+00	0.120296999	56	2.48E+00
3.47E-01	0.212065812	11	3.78E-01
7.09E+01	-0.041164705	17	3.39E+00
1.30E+00	-0.104617364	6	1.42E+00
4.53E-01	-0.005114307	1	6.21E-01
1.62E+01	-0.220345528	21	3.51E+01
3.63E-02	0.200228751	13	4.01E-01
1.08E-01	0.384438129	9	1.54E-01
4.00E-01	0.018395775	4	7.47E-01
1.62E+00	-0.261914136	5	2.16E+00

2.70E+02	-0.320628734	16	3.29E+01
6.33E+00	-0.159878074	15	7.18E+00
2.57E-01	0.839726573	3	8.07E-02
2.72E-05	1	9	9.13E-04
2.15E-02	1	2	2.64E-02
1.14E-13	2	23	1.03E-09
2.46E-02	0.660704273	1	1.99E-01
1.84E-01	0.592212267	6	8.87E-02
2.84E+00	-0.702197151	2	3.06E+00
2.17E+01	-0.080022633	20	6.87E+00
1.45E+01	-1	4	3.69E+01
4.96E-02	0.448910652	10	9.72E-02
1.57E-10	1	38	5.67E-11
2.72E-01	0.336959948	1	3.46E-01
2.16E-02	0.122418805	32	1.19E+00
7.65E+00	-0.005591923	62	1.18E+02
8.08E-01	-0.133602763	7	1.84E+00
9.81E-01	-0.175649636	23	3.01E+01
3.46E+00	-0.306470347	31	8.19E+02
4.16E-01	-0.076719393	10	2.04E+00
4.88E-01	0	6	9.35E-01
3.93E-01	0.11910444	6	5.82E-01
5.62E-01	0.426176253	16	5.75E-02
4.85E+01	-0.396967452	15	4.84E+01
4.59E-02	0.191063231	65	3.67E-01
6.79E-08	0.976180431	27	1.04E-05
7.65E-01	0.522828027	35	1.38E-03
7.95E+00	-0.073023178	6	1.25E+00
2.17E+01	-0.646114747	10	5.49E+01
5.57E-01	0.574676984	2	1.93E-01
1.28E+00	0.304249474	5	2.94E-01
1.64E-01	0.154580747	13	5.56E-01
6.56E-03	1	4	2.24E-02
3.78E-03	1	4	1.28E-02
1.38E+00	0.866002345	5	4.07E-02
2.89E-01	0.296098869	13	2.02E-01
2.43E+00	0.364875011	22	5.93E-02
1.07E+04	-0.249279896	29	2.31E+02
4.32E+01	-0.003277803	58	7.87E+01
4.20E-01	0	3	7.28E-01
1.12E+02	-0.051583893	23	7.06E+00
4.83E-01	0.207555859	55	2.45E-01
8.71E+00	-0.771526123	6	2.01E+01
2.91E+02	-0.006631563	79	5.31E+02
3.94E-01	0	6	9.35E-01
4.42E-01	0	1	6.16E-01
2.82E+00	-0.0082905	26	5.53E+00

1.34E+00	-0.551224821	7	1.17E+01
2.89E+04	-0.612164353	19	1.16E+03
3.27E+00	-0.178883321	12	5.11E+00
2.86E-01	-0.16590917	8	2.48E+00
2.13E-03	0.41680006	50	1.74E-03
2.70E-01	-0.037084638	3	8.02E-01
3.08E-01	0.107968167	13	7.75E-01
3.99E-10	1	25	6.65E-08
1.42E+01	0.342494684	27	5.33E-02
1.53E+02	0.290204842	18	1.66E-01
9.61E+00	-0.571667717	11	5.03E+01
1.81E+03	-0.012695977	8	1.18E+00
5.31E+01	-0.394408939	12	2.16E+01
1.64E+00	-0.47519268	2	1.87E+00
1.84E-01	-0.205412854	16	1.24E+01
8.55E+04	-2	12	6.03E+04
3.17E+05	-0.668868928	24	1.40E+04
3.09E+00	0.454347818	3	2.21E-01
6.85E+06	-0.891481677	24	2.08E+05
3.65E+00	-0.64607725	11	8.00E+01
1.06E+00	0	13	1.68E+00
5.11E-01	-0.119782944	8	1.98E+00
9.43E+00	-0.193588276	18	1.57E+01
1.92E+01	-0.604930662	15	2.58E+02
2.46E+01	-0.035494998	35	1.93E+01
2.40E-03	0.71913253	19	2.30E-03
3.99E-02	0.280294724	34	9.10E-02
1.21E+00	0.383295558	26	3.36E-02
1.67E-04	0.853216255	15	2.06E-03
1.01E-02	0.886387679	11	5.62E-03
5.72E-01	0.337172307	5	2.62E-01
6.34E-01	-0.096344409	8	1.77E+00
1.53E+00	-0.318978119	9	6.58E+00
9.89E-01	-0.232379428	6	2.35E+00
7.48E-02	-0.190040095	6	1.99E+00
2.70E-01	0.901686093	2	9.50E-02
5.21E-01	0.00710933	4	7.74E-01
6.56E+00	-0.229675984	29	1.74E+02
4.45E-01	0	5	8.60E-01
2.69E-01	0.075783001	35	2.88E+00
1.47E-01	-0.843761588	4	1.06E+01
2.41E-02	0.490806725	17	2.89E-02
5.90E-02	0.231452898	16	3.01E-01
1.04E+00	0.017832592	14	1.59E+00
1.83E-01	0.26575298	10	2.80E-01
9.29E+02	-1	10	4.83E+02
2.36E+00	-0.184109034	5	1.64E+00

2.52E+01	-0.220550132	6	2.25E+00
1.03E+00	-0.287809713	6	2.94E+00
6.86E-01	-0.299660515	4	1.98E+00
2.96E+03	-0.558943678	13	9.10E+01
4.84E-01	-0.052637888	3	8.35E-01
4.64E+00	-0.480062398	6	6.31E+00
5.87E+00	-0.181265033	7	2.27E+00
8.03E-03	0.265100134	12	2.62E-01
1.43E-01	0.297233485	8	2.59E-01
4.95E+01	-0.225306331	23	5.37E+01
5.58E+04	-0.831909894	16	2.55E+03
2.58E-07	1	29	5.22E-08
1.42E-01	0.815567358	7	2.74E-02
4.12E-01	0.5962818	9	4.99E-02
4.34E-02	-0.469052732	8	1.09E+01
1.68E-02	0.376788139	28	3.08E-02
1.92E+03	-2	6	5.27E+02
3.44E-01	0.1338955	2	5.01E-01
8.70E+03	-1	9	6.13E+02
6.72E+02	-0.536390849	33	5.30E+04
9.78E+01	0.304707295	5	2.94E-01
3.38E-04	1	13	1.27E-04
2.50E-16	2	35	5.46E-15
1.23E+00	1	11	2.50E-04
4.20E+00	-0.104503431	6	1.42E+00
1.21E+01	-0.235855373	7	2.89E+00
2.64E-01	-0.333766014	11	1.14E+01
2.24E+03	-0.933300739	10	2.89E+02
4.29E-02	0.642494265	26	1.15E-03
6.88E-01	0.015882335	9	1.10E+00
3.81E-01	-0.024906833	15	2.42E+00
2.56E+00	0.007592176	4	7.73E-01
7.91E+00	0.132786607	9	5.91E-01
8.91E-01	0.04572492	14	1.29E+00
2.49E-15	2	34	1.66E-14
5.53E+00	0.207263898	12	3.85E-01
3.93E-01	-0.018958756	6	1.01E+00
5.21E-01	0.426248217	45	2.40E-03
3.56E-01	0.94926963	6	2.14E-02
1.47E-01	0.165045825	6	4.85E-01
9.04E+03	-1	18	3.50E+04
5.13E+00	-0.219378844	6	2.24E+00
7.20E-01	-0.537719127	1	1.55E+00
2.49E+00	-0.448902671	8	9.89E+00
2.67E+00	-0.170779944	9	2.99E+00
2.98E+00	-0.335257324	5	2.80E+00
1.80E+02	-0.876055222	10	2.08E+02

2.83E+05	-0.524432893	41	5.69E+05
5.78E-01	-0.089142727	3	9.19E-01
5.30E-01	-0.128136377	6	1.56E+00
2.09E-01	1	4	1.81E-02
2.15E-05	0.775515519	21	7.73E-04
7.63E-02	2	1	1.25E-02
1.25E-01	0.396709418	8	1.59E-01
4.56E-01	-0.047779026	4	9.16E-01
1.79E+03	-1	11	1.50E+03
6.10E-01	-0.309678424	2	1.31E+00
4.30E-01	0.259632014	1	3.95E-01
2.53E-01	0.331620096	8	2.19E-01
4.10E-02	0.212320713	12	3.73E-01
1.09E-05	2	8	6.46E-05
1.69E-05	1	9	8.90E-04
8.62E-02	-0.143340118	6	1.65E+00
4.25E-01	0.000249359	5	8.59E-01
2.29E+00	-0.121414834	32	5.55E+01
2.89E+01	-0.543390011	10	3.03E+01
1.86E-01	-0.398898258	5	3.51E+00
8.99E-03	0.669172047	22	1.95E-03
2.73E-01	0.334379667	7	2.31E-01
1.39E+01	-0.140529449	13	4.58E+00
3.87E+03	-0.053231909	53	1.82E+02
4.17E+01	0.110026243	15	8.17E-01
1.41E+00	0.25752751	12	2.75E-01
5.01E-02	0.833039121	6	3.40E-02
4.80E-01	0.03034433	2	6.27E-01
4.26E-01	0.131090893	31	1.02E+00
1.68E+00	-0.168465018	3	1.13E+00
4.69E-01	0.058884793	4	6.60E-01
4.44E+01	0.172765434	31	5.37E-01
4.11E-01	0	4	7.91E-01
1.47E+00	0.32983395	7	2.36E-01
9.68E-01	-0.019412419	26	6.40E+00
1.26E+00	0.119496388	10	6.54E-01
5.39E+00	0.200939986	5	4.24E-01
9.27E-02	0.651752568	4	1.07E-01
1.27E-04	0.626602954	37	1.56E-04
4.76E-05	2	9	2.47E-04
1.10E+00	2	6	3.61E-04
1.74E+00	0.013412057	10	1.21E+00
3.13E-01	0.124316837	9	6.19E-01
3.17E+00	0.009879279	12	1.44E+00
1.92E+00	-0.450509373	11	2.36E+01
2.75E+01	-0.174323371	10	3.58E+00
6.70E+00	-0.254000847	37	1.21E+03

2.58E-01	0.032302952	11	1.16E+00
5.47E-01	0.014211253	21	2.81E+00
5.74E-01	0.205426966	2	4.29E-01
3.70E-04	0.82343868	24	1.94E-04
1.47E-02	0.421245802	17	5.38E-02
3.32E+00	0.041879274	23	2.37E+00
6.74E+03	-1	6	1.48E+02
5.53E-01	-0.137389223	7	1.87E+00
4.14E-01	0.40866854	5	2.04E-01
4.20E-01	-0.076076607	6	1.26E+00
4.02E-01	-0.108438477	5	1.26E+00
9.76E-01	0.110403885	3	5.45E-01
9.11E-01	0.542096328	20	1.12E-02
9.96E+00	-0.085490627	12	2.73E+00
5.61E+00	0.079380764	51	5.80E+00
8.48E+01	-0.037560357	8	1.33E+00
2.61E+04	-1	13	5.75E+03
3.74E-01	0.021115018	2	6.39E-01
6.16E-01	0.21256048	10	3.82E-01
4.29E-01	-0.111754992	2	8.52E-01
2.25E-01	0.367814733	4	2.56E-01
9.30E-02	0.232551978	29	2.25E-01
2.09E-01	-0.036564958	14	2.41E+00
3.19E-01	-0.00804063	8	1.15E+00
1.02E+02	-0.591600914	13	1.15E+02
6.83E-01	-0.168339047	28	6.13E+01
4.37E-01	0	3	7.28E-01
3.25E+02	-0.346584158	15	3.23E+01
4.01E-01	0.038448548	7	8.57E-01
8.93E+03	-0.175309873	56	6.47E+03
5.15E+02	-0.441050107	13	3.92E+01
2.04E+01	-0.070742156	18	4.96E+00
4.15E-01	0.417185738	5	1.98E-01
1.11E-02	0.732180118	13	8.96E-03
9.15E-01	-0.037208219	16	2.96E+00
7.33E+02	-0.165094054	21	1.94E+01
1.31E+00	0.416184817	4	2.20E-01
3.63E-01	0.187187943	1	4.47E-01
1.38E-17	2	27	1.63E-14
1.08E-03	2	2	3.92E-03
9.26E-02	-0.054716156	6	1.16E+00
3.61E-01	0.039628118	14	1.35E+00
5.45E-01	0.090996778	2	5.50E-01
2.72E+00	-0.072753287	29	1.82E+01
1.27E+06	-0.915363347	33	2.46E+07
4.02E-01	0	5	8.60E-01
2.16E+02	-0.676512379	14	3.11E+02

8.03E+00	-0.024742506	5	9.38E-01
2.20E+00	-0.221229184	5	1.87E+00
6.54E+11	-0.620652146	76	1.33E+12
9.08E-01	-0.038881226	7	1.21E+00
3.54E+01	-0.545107261	8	1.58E+01
3.43E-01	-0.215049838	8	3.16E+00
1.08E+05	-0.225965609	36	6.06E+02
1.94E+04	-0.456604389	33	1.46E+04
3.40E+08	-1	20	3.11E+05
1.08E+05	-0.44112793	42	1.45E+05
1.60E+00	0.04112835	12	1.17E+00
2.86E+01	0.280994363	30	1.07E-01
1.08E+00	0.146667384	7	5.31E-01
1.69E-01	0.061012021	4	6.56E-01
5.42E-01	-0.006940676	5	8.81E-01
7.55E+04	-0.495972071	41	3.24E+05
1.60E-01	0.262822637	15	2.39E-01
5.57E-02	0.911087591	7	1.80E-02
3.95E-01	0.039465405	14	1.35E+00
3.45E+01	-0.287101643	21	7.20E+01
3.76E+00	-0.706831629	3	4.63E+00
2.97E+00	-0.459514166	16	1.07E+02
5.07E-01	0.002556839	11	1.40E+00
7.39E-02	-0.06470206	13	2.66E+00
1.24E+05	-0.285479195	46	1.45E+04
1.40E+00	-0.145215831	7	1.93E+00
1.02E+01	-0.430422639	8	9.03E+00
3.68E+00	-0.006983076	92	1.66E+03
1.83E+01	-0.812051821	8	5.82E+01
9.81E-01	-0.278471584	5	2.29E+00
4.45E-01	-0.010028848	1	6.26E-01
7.83E+00	-0.253221397	9	4.64E+00
1.06E+00	0.054692264	10	9.51E-01
3.87E-01	-0.047887487	12	2.13E+00
6.98E+03	-1	10	4.29E+03
8.89E-01	-0.070887067	5	1.10E+00
1.17E-07	2	10	1.65E-06
1.77E-02	0.699707798	16	5.61E-03
4.42E-01	0.154137168	3	4.86E-01
3.28E-01	0.704415897	5	7.19E-02
1.90E-05	1	14	7.04E-05
3.74E-01	0.12996217	2	5.05E-01
3.24E-01	-0.474411118	4	3.39E+00
1.13E+00	-0.119593191	16	5.96E+00
1.99E+04	-0.767402145	16	1.47E+03
3.62E+01	-1	4	1.97E+01
5.24E-02	0.587811565	6	9.03E-02

2.93E-01	0.087975502	21	1.27E+00
1.90E+02	-0.50310681	18	2.90E+02
5.56E+02	-1	16	4.46E+04
6.39E-01	0.110479093	4	5.63E-01
1.46E-02	1	9	3.23E-03
3.60E-02	0.554386929	12	3.77E-02
7.42E-21	2	38	2.31E-17
1.04E+04	-0.969802979	21	1.12E+05
1.49E-01	0.480254493	9	9.26E-02
1.20E-08	2	23	5.50E-10
6.09E-01	-0.861374827	8	7.40E+01
7.63E+12	0.093491496	43	2.96E+00
9.02E-03	1	13	9.34E-04
8.27E-03	2	13	3.20E-05
4.22E-04	2	14	1.70E-05
9.48E-02	0.329217118	2	3.28E-01
4.84E-03	0.539948183	12	4.16E-02
1.01E-01	0.845123088	2	1.07E-01
1.24E-03	2	9	3.27E-05
7.87E-01	-0.380689494	15	4.25E+01
4.00E-01	-0.011891579	1	6.28E-01
1.56E-01	0.099885725	4	5.82E-01
6.44E-02	0.905534471	4	4.90E-02
3.74E+02	-0.396190179	18	1.06E+02
3.27E-01	-0.099433811	10	2.32E+00
6.69E-01	-0.073831055	4	9.92E-01
2.57E-03	0.7721161	11	1.15E-02
2.10E-01	0.694685703	52	1.43E-06
5.45E-01	0.068592631	15	1.14E+00
1.08E-09	2	14	7.08E-08
3.66E-02	0.328618738	2	3.29E-01
5.19E-04	2	5	1.48E-03
6.44E-03	1	13	4.90E-05
1.72E+00	-0.13315862	6	1.59E+00
1.60E+05	-2	10	1.42E+05
8.42E+01	-0.964664651	6	4.33E+01
4.36E+02	-2	3	8.96E+01
8.63E+03	-0.66576012	17	9.11E+02
1.48E+00	-0.311725075	7	4.04E+00
8.10E+00	-0.579767403	14	1.49E+02
2.40E-03	1	9	5.51E-04
2.29E-02	1	6	1.30E-02
1.78E+00	-0.239643296	5	2.00E+00
1.56E+00	1	10	1.00E-03
5.37E-01	1	4	3.38E-02
4.92E-03	0.242934751	24	2.21E-01
9.33E+03	-0.240145521	33	4.36E+02

4.34E-01	0.070725248	1	5.45E-01
8.22E-01	0.248055107	3	3.80E-01
6.27E+00	-0.595687417	6	9.99E+00
6.82E+02	-0.793217181	11	2.00E+02
2.39E+06	-2	12	2.24E+05
1.32E+05	-0.636101602	11	7.52E+01
1.81E+01	-0.456318936	4	3.21E+00
1.28E-02	0.888747344	11	5.54E-03
4.40E-02	0.700098719	5	7.30E-02
3.55E-02	0.912857649	4	4.79E-02
3.23E-01	-0.115625117	4	1.13E+00
1.90E+00	-0.002753858	9	1.22E+00
4.85E-01	0.017247855	3	6.95E-01
1.73E-03	0.937699496	17	5.27E-04
1.21E-01	0.288461805	7	2.83E-01
1.42E+00	0.05170177	4	6.75E-01
1.61E+02	-0.611419226	14	1.90E+02
1.03E-16	0.904280239	105	2.49E-16
1.40E+00	-0.08907275	6	1.33E+00
4.27E-01	-0.231075898	7	2.83E+00
3.91E-01	-0.021851535	3	7.70E-01
3.76E-01	0	8	1.10E+00
1.03E+01	-0.647355204	7	1.79E+01
6.06E-01	-0.063962974	2	7.69E-01
3.76E-01	0	8	1.10E+00
3.74E+01	-0.795617063	11	2.03E+02
4.11E-01	0	4	7.91E-01
5.62E+04	-0.543755847	21	1.14E+03
6.98E+04	-2	5	4.64E+02
8.21E+03	-0.978102831	6	4.57E+01
8.27E-09	0.605479424	108	3.03E-10
7.31E-03	2	2	1.82E-02
1.07E+88	-2	203	1.06E+71
1.38E+01	-0.705241982	4	6.90E+00
5.43E+02	-0.349285355	13	2.04E+01
1.63E+00	-0.250033926	10	5.55E+00
2.73E+00	-0.151301545	10	3.13E+00
1.86E+02	0.01865579	8	1.01E+00
3.84E+00	0.646831351	5	8.80E-02
4.29E-01	0.176001896	2	4.57E-01
4.21E-01	0.283401046	11	2.42E-01
2.29E+01	0.302677453	14	1.83E-01
2.17E-02	0.822719968	10	1.12E-02
3.03E-02	1	5	2.12E-02
7.98E-01	0.425847503	10	1.11E-01
7.27E-01	-0.648860876	14	2.52E+02
1.89E-01	-0.275460419	7	3.44E+00

9.07E+01	-0.563689113	7	1.23E+01
1.06E+00	-0.107362409	2	8.44E-01
1.19E+00	-0.611761971	1	1.75E+00
4.61E-01	2	3	1.21E-02
6.31E-01	-0.264678738	2	1.19E+00
2.21E-01	-2	5	2.17E+02
2.74E+01	-0.727694589	10	8.81E+01
6.35E-01	-0.37417733	6	4.14E+00
1.49E+01	-0.644243769	12	1.15E+02
1.71E+00	-0.336087671	8	5.70E+00
2.21E+01	-0.610055242	14	1.88E+02
4.20E-03	2	5	2.43E-04
2.16E-01	2	9	1.89E-04
9.97E-03	0.844175047	9	1.33E-02
6.06E-01	1	4	3.36E-02
2.45E-01	0.451801158	12	7.50E-02
4.47E+03	-1	16	6.26E+04
2.01E+06	-0.593440491	35	2.70E+05
3.07E+00	-0.009970442	7	1.06E+00
2.88E-01	-0.039739631	12	2.01E+00
4.39E-01	0.93172001	2	8.90E-02
4.10E+00	-0.069691365	20	6.18E+00
6.81E-01	0.165046264	3	4.72E-01
1.19E+01	-0.121199709	10	2.63E+00
2.40E+01	-0.015821797	13	1.88E+00
3.86E-01	1	3	3.42E-02
4.42E-04	1	29	1.43E-06
2.69E+03	-0.737736612	14	4.96E+02
1.44E+00	-0.20733929	15	1.05E+01
3.03E+00	0.210745946	13	3.72E-01
1.42E+01	-0.156537967	10	3.23E+00
8.17E-02	-0.272267918	11	7.76E+00
2.03E-03	0.612748821	7	6.73E-02
9.07E-14	2	38	4.23E-12
1.19E-01	0.250400499	9	3.16E-01
1.44E-01	1	3	2.00E-02
5.97E+00	0.291718739	10	2.41E-01
8.02E+03	0.212220499	15	3.59E-01
4.61E-01	-0.06302084	2	7.67E-01
4.07E+01	-0.722973275	6	1.66E+01
1.46E+02	-0.576825728	6	9.26E+00
9.27E-04	1	14	6.80E-05
3.85E-01	0.039820768	18	1.75E+00
5.19E-01	-0.038907049	1	6.58E-01
5.84E+04	0.250764597	212	7.12E-04
8.66E-01	-0.034263073	11	1.76E+00
4.39E-01	0	2	6.69E-01

3.61E+00	-0.781044324	7	3.23E+01
2.00E-01	0.973984646	15	7.79E-04
4.24E-02	1	6	8.68E-03
3.76E-01	0.724559304	5	6.69E-02
1.28E+04	0.40422683	30	1.72E-02
9.23E-01	0.108423983	9	6.73E-01
1.20E+04	-0.439672846	13	3.88E+01
4.98E-13	0.946793402	98	3.51E-16
4.88E-01	-0.21497587	5	1.83E+00
3.03E-04	0.934497307	28	1.29E-05
9.51E-02	1	2	4.20E-02
3.79E-01	-0.035399037	3	7.98E-01
1.26E+09	-0.523739375	46	2.79E+06
2.41E+02	0.537205666	6	1.10E-01
4.27E+00	0.120556374	8	6.13E-01
8.20E+02	-0.403041839	7	6.06E+00
1.56E+02	0.050926663	8	8.61E-01
8.16E-01	-0.000885917	18	2.57E+00
1.39E+03	-0.207200719	49	4.37E+03
8.60E+01	-0.589701313	20	1.32E+03
4.49E-01	0.209829024	2	4.25E-01
3.90E-25	2	79	2.13E-22
1.05E-02	0.703637937	6	5.70E-02
4.69E+00	-0.064155986	12	2.37E+00
1.34E+00	-0.198902682	4	1.46E+00
7.49E-01	-0.161937227	3	1.11E+00
3.39E-01	0.219724869	10	3.66E-01
2.84E+00	-0.161581838	4	1.30E+00
1.43E-04	2	9	8.06E-05
5.64E-04	3	2	1.75E-03
9.44E+02	-0.519728831	12	5.00E+01
4.87E+02	0.096952776	8	6.88E-01
4.21E-03	0.659641736	21	2.69E-03
3.55E+02	-0.890515328	6	3.22E+01
1.08E+03	-0.848872885	8	6.97E+01
5.90E-01	0	5	8.60E-01
1.56E+00	-0.365345846	4	2.43E+00
7.52E-01	-0.453950742	7	7.59E+00
4.70E-01	0.208553146	1	4.31E-01
2.11E-01	1	5	1.20E-02
5.18E-03	0.89847731	11	5.21E-03
6.58E-01	0.57923605	3	1.60E-01
3.22E-03	2	4	5.70E-04
1.37E-02	0.449686192	10	9.67E-02
7.66E-01	-1	4	3.40E+01
3.33E-02	0.047049788	5	7.28E-01
5.89E-03	0.701847638	22	1.35E-03

2.04E+00	0.164513765	6	4.86E-01
4.38E-01	0.02113881	1	5.94E-01
2.76E-01	0.556377922	14	2.66E-02
1.11E+04	0.043836829	91	1.76E+02
5.94E-03	2	6	6.17E-04
9.11E-01	0.358394445	5	2.43E-01
3.21E-01	0.610401637	11	3.15E-02
3.17E-02	0.485553283	10	7.86E-02
1.66E-05	2	5	5.43E-04
4.33E-04	1	3	1.64E-02
3.26E-04	1	8	2.91E-03
7.63E-01	0.227260366	5	3.86E-01
4.82E-01	-0.475747316	1	1.39E+00
1.41E+00	0.802469634	3	8.90E-02
1.14E-08	1	29	2.27E-08
2.53E-06	0.169350907	20	5.25E-01
7.74E-01	0.36804238	2	3.02E-01
1.30E-04	0.81192281	29	5.38E-05
7.69E-03	1	9	7.57E-04
1.00E+02	-0.427813864	13	3.57E+01
1.11E-23	2	54	3.68E-19
2.53E-01	-0.500547495	10	2.37E+01
4.71E-01	0.002144049	3	7.23E-01
1.11E+04	-0.772589065	11	1.76E+02
2.22E+02	-0.79024546	12	3.06E+02
4.45E+02	-0.472672698	8	1.11E+01
3.38E+00	-0.644823325	3	3.94E+00
8.53E+00	-0.647121366	13	1.71E+02
4.58E-01	-0.020472543	1	6.38E-01
6.93E+00	-0.453178922	6	5.67E+00
4.64E+03	-0.937239289	9	1.78E+02
1.10E+00	-0.176770151	7	2.22E+00
1.95E+01	-0.311988714	10	7.94E+00
1.81E+00	-0.162810072	8	2.45E+00
1.28E+03	-0.163096713	35	1.72E+02
4.69E-05	0.57647182	34	6.56E-04
8.17E-01	-1	9	2.85E+03
2.08E+01	-0.455294148	13	4.34E+01
2.88E-01	0.783308958	5	5.44E-02
4.36E+00	-0.231034135	6	2.34E+00
1.56E-01	-0.009412642	7	1.06E+00
4.18E-02	0.135740644	46	1.32E+00
3.17E-02	0.123138714	4	5.42E-01
8.22E-03	0.7948001	3	9.08E-02
4.36E-02	0.752542682	3	1.01E-01
3.46E-03	1	7	4.99E-03
1.63E-02	1	8	5.19E-03

1.39E-05	2	12	2.96E-05
7.09E-06	2	9	6.74E-05
8.99E+03	0.275137878	10	2.66E-01
4.77E-02	0.286407271	17	1.80E-01
1.05E+00	-0.144845224	15	6.36E+00
9.72E-01	0	4	7.91E-01
5.07E+00	0.097194978	8	6.87E-01
4.69E+01	0.162030489	44	7.22E-01
6.24E-01	0.081480988	25	1.64E+00
1.57E+00	0.033471977	11	1.15E+00
4.52E-04	2	8	6.84E-05
1.04E-03	1	10	3.14E-04
6.43E-01	0.932776363	4	4.51E-02
7.83E+01	0.025575331	9	1.05E+00
1.56E-06	1	17	8.41E-06
1.95E-01	0.539246883	6	1.10E-01
1.84E-01	0.569721102	5	1.15E-01
1.13E-01	0.903570099	20	2.70E-04
9.61E+00	0.198625701	12	4.08E-01
1.92E-01	-0.026879915	9	1.39E+00
2.28E-06	0.818059633	54	3.78E-08
5.12E-01	1	6	5.20E-03
5.22E-01	-0.168004312	7	2.14E+00
1.01E-01	-0.117403783	20	1.01E+01
9.72E-01	-0.659524826	2	2.79E+00
2.69E-01	-0.487165731	13	5.45E+01
2.11E+03	-0.343289698	11	1.21E+01
4.13E+02	0.242549668	12	3.04E-01
6.86E+01	0.097546737	8	6.86E-01
9.26E+01	-0.680887841	8	3.07E+01
2.45E+01	0.344498536	13	1.43E-01
1.41E+00	0	1	6.16E-01
9.84E+01	-0.90824046	8	9.31E+01
1.01E+01	-0.483315426	6	6.39E+00
8.08E+02	-0.410886901	12	2.41E+01
4.35E-01	0.560341886	12	3.63E-02
1.99E+00	0.477353008	10	8.24E-02
3.68E+00	-0.876335809	6	3.05E+01
7.78E+02	-2	8	5.40E+03
4.22E+02	-0.781001658	17	2.56E+03
7.18E+01	-1	6	1.17E+02
4.16E+03	-2	7	1.22E+03
3.16E+01	-0.803782623	7	3.57E+01
1.45E+06	-0.224162935	50	7.82E+03
6.63E+01	-1	2	1.23E+01
6.04E+02	-0.897321056	6	3.31E+01
1.63E+02	-0.839957742	8	6.67E+01

2.11E+01	-1	10	4.41E+02
4.07E+00	0.074805765	7	7.30E-01
2.02E+00	-0.024479819	12	1.82E+00
5.09E-01	-0.033795215	1	6.52E-01
8.13E+07	-0.52803788	33	4.63E+04
1.29E-03	2	14	7.59E-06
2.37E-05	0.923187678	24	5.78E-05
1.05E+01	-0.545517366	9	2.20E+01
4.89E+01	-0.525257319	5	5.47E+00
2.63E+07	-0.967330403	18	2.29E+04
4.47E-02	2	7	5.28E-04
2.21E-01	0.675401836	2	1.55E-01
2.31E-01	0.68250937	7	4.94E-02
8.84E+02	-0.237297185	12	7.55E+00
6.88E-01	-0.237052099	2	1.12E+00
5.18E+03	-0.550573702	16	2.33E+02
2.92E+00	0.109398171	19	9.41E-01
9.54E+02	-0.021796418	23	4.99E+00
7.23E-03	1	17	1.18E-04
7.49E+03	-0.526347684	9	1.99E+01
5.24E+05	-1	10	4.48E+03
2.46E-02	-0.024176047	9	1.37E+00
1.47E-01	0.99169269	7	1.26E-02
2.00E-03	1	7	1.81E-03
3.32E-06	2	20	4.53E-08
1.16E+00	-0.383422497	9	9.29E+00
3.61E+05	-2	18	1.05E+07
1.64E+01	-0.219491668	13	8.05E+00
6.20E+11	-0.997831306	32	5.48E+07
1.44E+06	-0.61521967	29	4.47E+04
4.89E+03	-0.031895514	27	8.30E+00
2.05E+00	-0.24805389	9	4.51E+00
1.51E+00	-0.123336824	7	1.75E+00
9.05E+00	-0.382277861	14	3.33E+01
1.19E+04	-1	15	3.98E+04
2.67E+03	-0.999307467	11	7.25E+02
1.13E+01	-0.206160458	23	4.29E+01
1.55E+12	-0.900784866	46	1.15E+10
1.33E+05	-1	16	4.21E+04
5.03E-02	0.607669321	5	1.01E-01
1.50E+01	0.464093559	80	1.26E-05
1.54E-02	0.393536382	6	1.95E-01
1.09E+03	0.116316271	20	9.07E-01
1.83E-01	0.013989418	10	1.20E+00
1.46E+01	-0.482741827	4	3.48E+00
3.70E+02	-1	7	1.32E+02
2.72E+01	0.597644726	4	1.26E-01

1.30E+01	0.003019968	5	8.51E-01
1.01E+01	0.091798229	16	9.87E-01
2.95E-01	0.211930436	8	3.93E-01
6.97E-01	0.022691335	4	7.38E-01
8.73E-03	0.402723338	25	2.88E-02
1.12E+01	0.792500775	6	4.00E-02
2.55E-23	2	43	6.05E-21
6.27E-03	1	2	7.17E-02
2.33E-03	2	4	7.67E-04
1.81E-01	0.623999993	4	1.16E-01
1.99E+00	-1	4	2.17E+01
9.85E+02	-0.547790905	17	3.17E+02
2.74E+03	-1	7	3.22E+02
6.99E+01	-0.584110022	4	4.75E+00
1.07E+01	0.317515463	2	3.37E-01
2.20E+00	-0.23015934	12	7.20E+00
8.09E-01	-0.006077041	7	1.04E+00
1.13E+00	-0.170059721	5	1.57E+00
4.38E-01	-0.164461034	9	2.89E+00
7.35E-03	0.662424052	14	1.19E-02
3.51E-01	0.160465277	6	4.94E-01
1.14E-04	1	15	4.74E-04
4.08E-02	0.781438889	6	4.18E-02
8.12E-01	0.126395552	5	5.51E-01
2.38E-03	0.255173562	36	1.30E-01
8.02E-01	0.193247238	8	4.30E-01
3.65E-01	0.416875418	2	2.71E-01
4.29E-01	0	2	6.69E-01
3.25E+01	-0.330794197	7	4.40E+00
8.94E-03	0.92011756	19	3.17E-04
2.29E-01	0.106594237	10	7.04E-01
1.22E-01	0.304827551	11	2.12E-01
9.31E-02	0.689556651	30	2.49E-04
7.32E-03	1	6	8.05E-03
6.96E-02	0.818845223	7	2.70E-02
3.72E-01	0.832856242	6	3.41E-02
2.26E-02	1	6	3.93E-03
7.75E-01	-0.641970451	2	2.69E+00
3.75E+05	-0.453841023	30	5.85E+03
4.42E+01	0.065692968	8	8.02E-01
4.31E-01	0	3	7.28E-01
1.43E+11	-1	27	3.00E+09
3.17E+01	0.071065853	20	1.45E+00
1.08E-01	-0.04548292	25	8.10E+00
2.92E-01	0.720750777	18	2.89E-03
1.80E-01	1	3	3.54E-02
9.88E+01	0.725623049	5	6.67E-02

1.90E+00	-0.183806578	2	9.96E-01
3.24E+05	-1	17	2.38E+05
7.33E-01	-0.233627067	1	9.18E-01
8.09E+09	-1	27	2.15E+07
6.37E+00	0.189002475	7	4.40E-01
7.65E-02	0.227440432	12	3.37E-01
4.27E-01	-0.186099555	7	2.32E+00
3.32E+04	-0.645883725	15	3.59E+02
8.48E+03	-2	10	1.53E+05
8.11E+01	-1	4	2.83E+01
1.20E+00	-0.099746776	2	8.31E-01
5.68E+03	-0.221900655	32	2.70E+02
7.74E+01	-0.475834108	15	9.14E+01
1.69E+00	-0.210501013	8	3.09E+00
9.80E-02	2	1	4.37E-02
1.28E-21	2	49	3.99E-20
1.49E-03	3	4	1.15E-04
6.63E+00	0.537599992	7	9.39E-02
1.09E-08	2	17	3.02E-09
2.85E-07	2	10	1.51E-05
8.79E-09	2	24	2.06E-08
1.87E-04	2	16	2.27E-06
2.62E-02	0.845029637	8	1.78E-02
5.19E-03	2	6	7.96E-04
1.25E-02	0.582939885	68	1.28E-06
8.07E-03	1	8	1.64E-03
1.08E-02	2	4	8.82E-04
2.74E-02	1	18	5.35E-05
3.56E-03	0.306136066	9	2.35E-01
8.87E-01	-0.176645752	5	1.60E+00
7.34E+00	0.102616855	8	6.69E-01
4.52E+01	-0.167692699	7	2.14E+00
5.00E+00	-0.547573142	6	8.25E+00
2.92E-05	1	31	6.95E-08
3.65E+01	-1	3	1.73E+01
1.30E+00	-0.07020252	5	1.10E+00
2.41E-01	0.432212771	13	7.64E-02
4.58E-01	-0.052390695	12	2.19E+00
9.96E-01	-0.155868578	19	1.29E+01
1.89E+03	0.040098019	13	1.26E+00
1.57E+00	0.225477732	3	4.03E-01
2.95E+00	-0.534077371	10	2.87E+01
1.47E+00	-0.124463335	11	3.09E+00
4.58E-01	-0.021435311	2	7.01E-01
4.95E-01	-0.030041168	8	1.28E+00
4.74E+00	0.453875651	10	9.44E-02
5.03E-02	1	4	1.52E-02

6.32E-03	0.911348573	8	1.29E-02
3.66E-05	0.764100433	32	4.87E-05
6.92E-08	1	21	1.99E-06
1.75E-04	1	17	1.13E-05
1.01E+02	0.311059366	25	9.13E-02
1.79E+00	-0.190927647	6	2.00E+00
4.74E+00	-0.154335781	20	1.48E+01
5.55E-01	-0.016254354	3	7.59E-01
5.05E-02	0.570484451	12	3.39E-02
9.49E-02	0.536356363	6	1.11E-01
3.09E+02	-0.194674674	22	3.16E+01
1.83E+01	-0.454586142	28	3.31E+03
7.96E-01	-0.152878437	2	9.32E-01
2.94E+02	-0.586187772	12	7.80E+01
4.07E+05	-0.419556799	17	1.00E+02
2.36E+03	-1	6	3.38E+02
1.24E+00	-0.173432584	17	1.11E+01
1.44E+01	-0.169694231	9	2.97E+00
6.12E+02	-2	14	2.52E+05
1.72E+00	0.630747714	23	2.45E-03
1.19E-01	-0.262728226	8	3.98E+00
1.24E-01	0.977717881	10	4.55E-03
2.92E+02	-0.254501791	21	5.07E+01
6.79E+00	-0.468301361	5	4.48E+00
1.01E+03	-1	12	7.25E+03
1.76E+00	-0.441983172	5	4.08E+00
2.03E+00	0.382364612	9	1.56E-01
1.15E-01	0.130178869	15	6.95E-01
2.40E-01	0.024531994	4	7.34E-01
2.42E+00	-0.683013225	1	1.98E+00
2.88E+01	-0.23495596	7	2.88E+00
5.13E+00	-1	8	4.42E+02
1.06E+04	-1	8	1.67E+02
5.11E-01	-0.075600811	8	1.60E+00
1.04E+00	-0.005155688	7	1.04E+00
2.02E+01	-0.155164711	5	1.49E+00
1.73E+00	-0.143860973	6	1.66E+00
4.15E-02	0.18958512	15	4.31E-01
1.98E-02	0.737148816	11	1.43E-02
1.14E-01	1	1	7.47E-02
2.47E-03	2	8	1.26E-04
3.02E-02	2	5	2.18E-03
1.04E+04	-0.845385859	12	4.42E+02
3.55E+04	0.25314576	21	2.14E-01
1.80E+03	-0.077750504	24	1.08E+01
7.13E-02	-0.572726927	5	6.47E+00
2.74E+02	0.111630144	18	8.91E-01

8.00E-03	1	12	7.03E-04
9.11E-01	0.416675206	38	6.17E-03
3.86E+07	-0.404205873	63	1.85E+07
5.04E+00	0.993230252	8	8.66E-03
1.65E+04	-0.075062501	12	2.55E+00
1.48E+00	0.295930548	10	2.35E-01
8.21E-01	0.003495616	9	1.18E+00
4.72E-01	-0.509129883	1	1.47E+00
5.97E-01	-0.090074913	4	1.04E+00
1.56E+00	0.424115388	2	2.67E-01
4.16E-01	1	2	7.67E-02
3.91E-01	0.006077447	6	9.12E-01
3.96E-01	0.356713511	7	2.09E-01
5.36E-07	1	17	1.65E-05
3.41E+04	-1	23	6.82E+05
4.21E-03	0.19333	23	4.05E-01
1.57E-02	0.60793583	10	3.87E-02
5.03E+01	-0.121048057	31	4.80E+01
1.83E+04	-0.864356161	11	3.12E+02
2.36E+02	-0.899202348	4	1.25E+01
2.92E+01	-1	6	8.23E+01
4.02E-01	-0.115137555	5	1.29E+00
1.05E+02	0.292925173	30	8.97E-02
1.02E+00	0.695535906	9	2.94E-02
1.98E+00	1	4	1.11E-02
5.70E-01	-0.054532127	3	8.39E-01
4.48E+01	0.025749812	17	1.86E+00
1.75E+02	-1	12	5.23E+03
1.45E+01	0.298807726	9	2.44E-01
1.84E-01	0.256112437	11	2.87E-01
1.75E+00	-0.038262984	11	1.80E+00
8.66E-02	0.747935551	5	6.16E-02
9.64E-03	0.405124038	9	1.38E-01
4.89E-02	0.467185369	6	1.46E-01
9.05E+02	0.146356727	19	6.54E-01
6.24E+01	0.378236466	7	1.90E-01
8.77E-02	0.900481225	5	3.60E-02
5.79E-04	1	30	7.71E-07
1.52E-01	-0.222506374	13	8.22E+00
1.61E+01	-2	3	4.08E+01
1.45E+00	0.516611317	6	1.20E-01
7.19E-02	1	3	1.68E-02
1.13E+02	-0.385844133	9	9.41E+00
7.51E+01	-0.748455131	4	7.88E+00
3.17E+02	-0.954932182	6	4.17E+01
2.29E+01	0.002827407	5	8.51E-01
9.11E+02	-2	5	2.41E+02

8.20E-01	-0.111640726	3	9.74E-01
9.28E-02	0.554645102	6	1.03E-01
3.39E-01	-0.144795919	4	1.23E+00
2.68E+00	0.616089584	16	1.14E-02
4.39E-02	0.392767204	17	6.95E-02
1.70E-06	2	20	3.01E-08
1.36E+00	1	4	1.13E-02
4.37E+00	-0.036950543	4	8.86E-01
5.15E+00	-0.352840658	8	6.18E+00
9.34E-01	-0.19741144	3	1.22E+00
2.37E+00	-0.437822968	4	3.03E+00
6.03E+01	-2	5	2.76E+02
2.58E+02	-1	8	1.31E+03
1.01E+04	-2	17	3.52E+06
1.24E+02	-0.682087772	6	1.41E+01
7.49E+02	-0.913235712	10	2.58E+02
9.24E+01	-0.401280091	7	6.01E+00
4.86E-01	0.031027976	1	5.84E-01
1.70E+04	-1	8	7.32E+02
1.60E+00	0.088369647	6	6.58E-01
2.02E-01	0.476709763	8	1.08E-01
3.93E+00	-0.341431993	9	7.42E+00
7.23E-01	0.064674011	11	9.48E-01
5.71E+03	-0.48721327	27	3.85E+03
4.86E+04	-1	12	5.49E+03
4.49E-01	-0.015298005	3	7.57E-01
7.09E-01	-0.216028759	6	2.21E+00
2.94E+01	-0.399827589	8	7.78E+00
1.79E+00	0.574692767	16	1.63E-02
2.82E-02	2	5	9.17E-04
1.82E-02	1	10	8.98E-04
1.54E-01	0.068926473	2	5.76E-01
1.56E-05	1	21	3.64E-05
1.77E-02	1	5	8.84E-03
1.12E+01	-0.196027641	9	3.42E+00
1.27E+00	-0.182929545	8	2.70E+00
3.79E-01	-0.299435868	2	1.28E+00
4.75E+03	-1	9	6.36E+02
6.01E-01	-0.129016444	2	8.85E-01
1.79E+09	-0.68830424	41	1.47E+07
1.25E+03	-2	6	2.35E+03
3.26E+01	-0.491267611	6	6.59E+00
1.73E+00	-1	1	4.80E+00
3.48E-02	0.894337621	5	3.68E-02
1.96E+00	0.152149218	12	5.57E-01
1.16E+00	0.399442431	11	1.17E-01
3.38E+00	-0.377304763	7	5.40E+00

4.45E+00	-0.570033834	4	4.55E+00
4.27E+04	-0.938235747	8	1.08E+02
9.37E+00	0.209706225	6	4.06E-01
3.17E-12	3	16	9.63E-11
1.00E-02	0.583121895	15	1.81E-02
2.74E-03	0.37425846	11	1.37E-01
3.66E-01	0.012394204	3	7.04E-01
4.71E-01	0.020334087	1	5.95E-01
2.45E+00	-0.02831399	5	9.50E-01
2.39E+00	-0.001419307	4	7.94E-01
1.35E+00	-0.236185443	5	1.98E+00
1.14E+01	-0.727332547	8	3.85E+01
1.34E+01	-1	6	1.10E+02
4.75E-01	-0.432645922	6	5.22E+00
5.14E+00	-0.327099377	12	1.38E+01
6.32E-04	2	15	2.29E-06
3.27E-01	0.127922708	9	6.07E-01
4.59E-01	-0.027331541	2	7.10E-01
5.80E+00	-0.949558035	2	5.23E+00
2.86E-03	0.548736665	55	3.26E-05
6.38E+00	0.206041047	11	3.92E-01
1.07E+00	-0.217841845	3	1.29E+00
4.29E+00	-0.040042257	8	1.34E+00
3.94E-01	0.00766714	4	7.72E-01
2.13E-03	0.779978017	12	8.34E-03
3.41E+00	0.127658048	6	5.63E-01
2.35E+08	-0.389251815	61	7.04E+06
3.58E-09	2	25	2.13E-08
7.79E-02	0.841869085	1	1.46E-01
5.44E-01	-0.268666491	3	1.47E+00
1.84E+00	0.035958943	3	6.62E-01
8.22E+02	-0.758856259	7	2.93E+01
8.78E+00	0.08867096	19	1.15E+00
5.92E-01	-0.865423818	1	2.71E+00
1.83E-01	0.231355552	3	3.97E-01
1.10E+02	0.569808004	17	1.42E-02
4.34E-01	-0.199342321	10	4.14E+00
7.74E-01	-0.278199086	6	2.83E+00
4.59E-17	3	19	9.06E-13
9.26E-02	0.383237472	19	6.32E-02
9.53E+03	0.406720661	37	8.20E-03
3.10E+02	0.01869265	11	1.26E+00
4.70E-01	1	4	1.52E-02
1.60E+00	-0.257212428	11	7.07E+00
1.49E+01	-0.166739363	12	4.71E+00
9.25E-01	-0.461170236	3	2.43E+00
3.67E+04	-2	9	8.47E+04

7.98E+04	-0.427515308	12	2.70E+01
1.32E-01	0.36210422	18	8.44E-02
4.94E-06	0.858302887	53	1.82E-08
2.15E-02	1	8	4.62E-03
1.41E+01	0.116568362	9	6.45E-01
3.08E+00	0.397687574	7	1.75E-01
1.93E+00	0.022075201	7	9.21E-01
1.39E+04	-0.926623418	10	2.78E+02
1.19E+00	-0.126741225	8	2.05E+00
2.90E+02	-0.958527975	9	2.00E+02
8.55E-03	1	7	1.41E-03
2.34E-01	0.607636127	4	1.22E-01
2.93E+05	-0.920520904	19	2.43E+04
4.35E+01	-0.872000371	10	2.03E+02
4.90E-01	-0.009250459	2	6.83E-01
5.70E+01	-0.824987842	13	6.09E+02
4.56E+00	-0.540121853	4	4.15E+00
7.69E+01	0.273623613	8	2.90E-01
5.75E-01	0.003896932	3	7.20E-01
1.01E+05	-0.726215219	17	1.57E+03
1.52E+00	-0.113379947	6	1.47E+00
1.17E+01	-0.773920767	10	1.15E+02
4.05E+00	-0.305048479	9	6.11E+00
1.06E+01	-1	11	1.07E+03
1.36E-01	0.990140745	8	8.79E-03
3.52E+00	0.304587415	5	2.94E-01
2.29E+00	-0.390971505	4	2.63E+00
6.81E-01	0.347326182	2	3.15E-01
7.71E-01	0.488838841	8	1.02E-01
1.81E+01	0.056109374	13	1.12E+00
6.91E+00	0.209559575	7	4.02E-01
8.49E-01	0.692542872	3	1.19E-01
2.09E-01	0.54598267	5	1.26E-01
1.20E+04	-0.575012661	14	1.44E+02
3.56E-03	2	13	2.32E-05
2.69E+01	0.075370776	29	2.16E+00
9.92E+01	-1	6	7.85E+01
1.43E+03	0.344741832	28	4.81E-02
1.52E-05	1	18	1.03E-04
7.27E+02	-0.510179868	10	2.50E+01
1.01E+00	-0.139494011	3	1.05E+00
1.12E+01	-0.669387069	3	4.20E+00
2.39E+01	-0.66613769	9	4.20E+01
1.51E+00	-0.111834658	7	1.67E+00
2.74E+00	0.028393738	5	7.78E-01
3.93E-10	2	15	3.73E-09
6.69E-01	0.019722954	4	7.44E-01

6.56E+00	-0.252561335	5	2.09E+00
3.73E-10	3	15	9.13E-11
1.92E-03	0.926740032	13	2.23E-03
1.31E+01	-2	9	1.38E+04
3.82E+00	-0.229513086	6	2.33E+00
9.37E+03	-0.404513578	24	5.68E+02
1.14E+00	0.067092448	2	5.79E-01
7.68E-01	-0.09057863	3	9.22E-01
2.11E-04	0.87879545	20	3.48E-04
4.58E-01	-0.058727632	2	7.60E-01
1.39E+00	0.580471753	5	1.11E-01
1.45E+01	-0.857070129	4	1.10E+01
2.78E+00	1	5	1.92E-02
4.38E-01	1	9	3.77E-03
3.28E-02	0.166670472	14	5.14E-01
1.02E+00	-0.374943095	1	1.17E+00
1.83E+01	-0.05171703	13	2.43E+00
7.46E+02	-0.349907515	5	2.95E+00
7.61E-01	-0.172212997	2	9.72E-01
4.10E+02	-2	5	3.58E+02
4.74E-01	-0.212842905	9	3.74E+00
1.22E+00	0.180212378	10	4.60E-01
4.18E-01	0.445438043	3	2.27E-01
1.03E-03	2	4	2.44E-03
2.71E-06	2	16	2.59E-08
1.92E+01	0.328921352	24	7.79E-02
2.81E-04	2	26	3.81E-09
4.70E-03	2	5	8.10E-04
1.70E-01	0.761676094	7	3.48E-02
3.66E+00	0.543435879	3	1.75E-01
1.34E+14	-2	25	2.74E+09
2.44E-05	1	24	1.06E-05
4.45E-09	2	13	1.03E-07
6.53E+02	-1	11	3.23E+03
1.06E-02	2	6	1.35E-04
3.99E-03	2	3	7.33E-03
5.16E-10	2	30	5.92E-10
2.97E-03	0.820454918	6	3.58E-02
1.67E-03	0.797698177	16	2.44E-03
3.67E-05	1	15	1.87E-05
1.56E+01	-0.413601389	5	3.69E+00
5.82E+00	-0.050725581	57	2.61E+02
1.37E-01	-0.151120507	12	4.24E+00
2.82E-02	0.667846663	9	3.41E-02
1.96E-01	-0.013697636	18	2.90E+00
1.07E+01	-0.11219469	10	2.50E+00
2.72E+04	-2	10	9.02E+03

7.09E+04	-0.914210609	14	1.90E+03
4.88E-03	1	9	3.63E-03
1.76E+00	1	7	9.39E-03
3.74E+13	-3	19	7.13E+12
5.19E+01	-0.568594758	19	7.55E+02
5.70E+00	-0.22212219	6	2.26E+00
2.45E+05	-2	11	2.47E+04
9.81E+06	-1	13	4.44E+04
7.97E+06	-0.676792808	25	2.28E+04
2.60E+03	-1	10	5.49E+02
1.64E+00	-0.189330642	7	2.35E+00
2.15E-01	0.203217381	32	3.34E-01
8.68E-02	1	6	5.54E-03
4.59E+00	1	10	5.40E-04
1.45E+01	-0.296992685	15	2.17E+01
4.50E-01	0.01578557	1	5.99E-01
1.29E+00	-0.109051756	4	1.11E+00
2.61E-02	0.477312205	7	1.23E-01
4.33E-01	-0.207366773	15	1.05E+01
4.92E+03	-1	9	8.35E+02
1.26E+01	-0.701175916	6	1.52E+01
5.23E-01	-0.047420572	5	1.02E+00
1.04E+03	-0.684680906	15	4.91E+02
3.79E+02	-0.87724028	4	1.17E+01
3.79E+02	-1	12	1.43E+03
8.68E+01	-0.421028779	18	1.34E+02
5.97E-01	-0.118800578	9	2.26E+00
1.05E+01	-1	4	2.42E+01
1.70E+00	-0.113078702	4	1.12E+00
4.72E-01	-0.074816737	4	9.95E-01
1.38E+03	-0.30547726	12	1.19E+01
9.08E+01	0.110179904	20	9.66E-01
2.46E+02	-0.105534852	21	1.02E+01
6.96E-02	1	31	9.54E-07
8.49E-03	0.836710045	21	4.00E-04
4.50E-02	0.642471127	29	6.16E-04
1.90E-03	0.682326822	21	2.11E-03
4.55E-01	-0.035042097	3	7.97E-01
4.74E+00	-1	2	9.53E+00
3.59E+04	-2	9	2.79E+04
7.69E+02	-0.802767818	15	1.27E+03
5.52E+01	-0.12594088	8	2.04E+00
9.17E+03	-0.5874462	9	2.76E+01
1.21E+02	-0.222173868	13	8.21E+00
1.84E+01	-0.070353876	14	3.11E+00
1.33E-04	2	5	1.78E-04
6.24E-01	0.861531533	16	1.42E-03

2.04E-01	0.688680851	4	9.54E-02
4.75E-02	0.817990558	16	2.05E-03
1.18E+01	-0.022620406	14	2.17E+00
9.05E-01	1	3	4.08E-02
9.78E+04	-0.617892054	11	6.71E+01
8.53E-01	-0.086296214	2	8.07E-01
4.68E+01	-0.652769545	8	2.67E+01
3.06E+00	0.024807906	6	8.47E-01
2.42E+00	0.133700644	6	5.49E-01
2.28E+02	0.098375891	8	6.83E-01
8.82E+06	-1	15	1.32E+05
1.83E+00	0.803672073	2	1.17E-01
3.39E-07	2	18	1.55E-06
5.54E+00	-1	4	1.75E+01
8.83E+01	-0.351138571	11	1.27E+01
5.61E+01	-0.087828352	24	1.22E+01
9.42E-01	0.332724003	12	1.66E-01
2.15E-02	0.600268429	15	1.58E-02
5.21E+00	-0.420072097	6	4.97E+00
6.30E+02	-0.32642614	15	2.75E+01
3.79E+01	-1	6	2.00E+02
4.59E+03	-1	9	2.39E+03
1.43E+00	-0.229194	6	2.33E+00
9.19E+01	0.158746535	5	4.91E-01
1.76E+01	-0.190014958	9	3.31E+00
1.38E+01	0.394037405	7	1.77E-01
1.57E+03	-0.752094171	15	8.45E+02
4.94E+05	-2	11	9.47E+04
3.06E+01	-0.361426359	9	8.26E+00
8.54E-01	-0.964579807	4	1.53E+01
1.66E+01	-0.299140534	9	5.92E+00
1.00E+00	-0.242396009	4	1.66E+00
1.32E+00	-0.257267015	5	2.13E+00
1.01E-01	-0.131023372	24	2.06E+01
5.84E-01	-0.130163138	5	1.36E+00
3.55E-05	0.754954435	12	9.86E-03
6.12E-02	-0.840093765	7	4.20E+01
4.93E+05	-1	21	1.63E+05
8.95E-01	1	3	4.54E-02
1.58E-05	1	18	2.56E-06
5.87E+01	-0.560478468	17	3.55E+02
1.62E+00	-0.540805137	6	8.03E+00
7.94E-01	-0.468662488	4	3.34E+00
1.72E-02	0.286092706	12	2.27E-01
1.01E+01	0.018331094	9	1.09E+00
1.44E+10	-2	20	1.42E+08
1.26E+11	-3	14	5.66E+08

9.99E+26	-2	50	1.74E+27
8.00E+03	-0.6752516	18	1.46E+03
3.30E+03	-0.589869086	16	3.25E+02
2.50E-03	2	5	1.61E-03
3.79E-03	2	4	1.35E-03
1.32E-02	1	9	5.02E-03
1.06E-01	0.802324633	5	5.09E-02
9.83E+01	-1	6	5.84E+01
5.00E+02	-0.720988933	7	2.48E+01
2.19E+00	-0.875131699	7	4.90E+01
1.15E+01	-1	3	1.97E+01
5.21E+03	-0.786411127	11	1.92E+02
2.27E-02	1	3	2.51E-02
1.23E-01	1	9	2.22E-03
9.10E-01	-0.08929509	5	1.18E+00
9.91E-02	0.834121084	5	4.55E-02
5.74E-01	-0.257395919	1	9.57E-01
2.88E-01	0.459376786	5	1.70E-01
1.15E+00	0.071020476	9	8.22E-01
2.53E-01	0.10901318	4	5.66E-01
2.45E-01	0.230658538	4	3.90E-01
1.61E-02	1	6	9.80E-03
1.37E-03	1	8	2.64E-03
4.98E-04	2	5	1.81E-03
5.48E-17	2	22	7.92E-12
3.21E-06	3	6	6.48E-06
2.58E+00	0.797647641	9	1.70E-02
6.15E+01	-0.5607682	10	3.35E+01
5.90E+01	-0.598298956	12	8.46E+01
3.11E+01	-0.005521524	7	1.04E+00
2.35E-01	1	3	3.88E-02
1.81E-24	2	42	3.09E-21
6.63E+21	-2	32	1.52E+17
7.07E+06	-1	17	1.18E+06
4.19E+01	-2	4	2.39E+02
3.58E-03	0.338581335	20	9.16E-02
5.09E-01	-0.167428134	2	9.62E-01
3.13E+00	-0.349456692	4	2.31E+00
4.27E+00	-0.332084864	5	2.77E+00
6.64E-01	0.337645243	7	2.28E-01
3.20E-59	3	93	2.68E-51
3.72E-03	0.592252862	13	2.44E-02
7.08E+00	-0.294528831	18	4.07E+01
9.68E-07	2	23	4.79E-08
5.13E-06	2	15	5.09E-06
3.07E+01	-0.944749455	11	5.16E+02
3.89E+01	-2	11	4.70E+04

7.48E-04	-0.156471647	36	1.79E+02
6.09E-01	-0.866908898	4	1.13E+01
2.84E-03	2	7	1.31E-03
2.87E-12	1	31	2.55E-08
2.69E+03	-0.856679373	13	7.64E+02
1.93E+02	-2	3	5.60E+01
2.03E+00	-0.142423263	7	1.91E+00
2.07E+01	-1	3	2.72E+01
6.64E-01	0.385419357	3	2.65E-01
8.01E-12	3	13	2.52E-09
1.34E+04	-0.211448739	14	9.09E+00
1.71E-01	-0.258501225	13	1.06E+01
2.09E-04	1	20	4.70E-06
5.53E-01	-0.067710298	2	7.75E-01
2.23E+08	-1	20	5.63E+05
2.26E+00	0.518878399	5	1.38E-01
1.97E-05	2	13	1.33E-05
4.23E+01	0.245794104	15	2.74E-01
1.97E+04	-0.059609711	14	2.87E+00
5.38E-01	0.081081798	11	8.56E-01
7.47E-01	0.885491559	3	7.16E-02
4.12E-01	0.043769293	3	6.49E-01
1.95E+00	0.036082653	7	8.66E-01
3.57E+05	-0.496803183	22	9.38E+02
1.36E+00	-0.169166989	6	1.83E+00
5.02E-01	0.701359763	3	1.16E-01
1.18E-02	0.561273572	14	2.56E-02
6.59E-03	1	25	3.68E-06
5.07E+02	-0.139853843	21	1.48E+01
7.95E+28	-0.584445661	100	1.56E+15
3.61E-01	0.737799501	25	4.26E-04
2.81E-01	1	6	2.53E-03
4.06E+01	-0.297751493	7	3.80E+00
2.19E+05	-0.532261544	29	1.35E+04
2.16E+10	-1	26	1.81E+07
3.24E-03	2	7	9.69E-05
1.85E+06	-1	13	1.29E+04
6.01E+01	-0.824351998	7	3.91E+01
7.41E+00	-0.545824689	11	4.28E+01
7.13E+00	-0.048310205	11	1.92E+00
4.46E+01	0.419594831	14	7.52E-02
2.62E+00	0.344206955	27	5.21E-02
6.72E-01	0.649371735	13	1.62E-02
4.37E+00	0.883093148	4	5.25E-02
2.41E+01	-0.875120638	12	5.40E+02
1.17E+00	-0.368866382	2	1.49E+00
7.69E+02	-2	6	7.74E+02

2.87E-01	0.065148185	2	5.81E-01
1.10E+00	0.292945708	5	3.06E-01
5.38E-05	1	10	3.06E-04
1.49E-08	3	11	1.00E-08
1.26E-02	2	1	1.92E-02
2.29E-01	-0.006768414	3	7.41E-01
2.96E-01	0.673214321	8	4.13E-02
1.30E-01	0.590673022	10	4.28E-02
1.89E-01	-0.115439931	3	9.84E-01
1.56E+01	-0.057529973	25	9.42E+00
3.41E-01	-0.157703417	4	1.28E+00
1.01E-09	2	16	6.53E-09
6.38E-07	2	17	2.65E-06
2.84E-01	-0.062065022	21	6.38E+00
3.26E+00	-1	3	1.17E+01
1.37E+02	-0.542499437	21	1.13E+03
5.50E+06	-2	10	1.83E+05
1.52E+00	0.046591681	4	6.85E-01
4.18E+04	-1	15	1.85E+04
2.89E+00	-1	4	1.79E+01
3.57E+01	-0.556651638	19	6.71E+02
1.05E-01	0.207764964	22	3.46E-01
9.34E+04	-1	13	2.98E+04
5.48E+00	1	6	1.50E-02
4.12E-01	0.22459585	10	3.56E-01
8.06E-02	0.252465031	23	2.03E-01
2.05E-02	1	5	6.84E-03
8.23E-04	0.972318109	14	1.13E-03
3.34E-06	2	17	5.17E-07
9.55E-03	1	10	2.00E-03
4.62E-01	-0.280428881	6	2.85E+00
7.46E-02	0.366735644	23	5.35E-02
8.22E-01	0.040291777	2	6.13E-01
5.01E+02	-0.473978484	16	1.21E+02
2.81E+00	1	6	1.64E-02
3.95E+04	-0.517280096	19	4.55E+02
1.72E-04	0.876895032	14	2.33E-03
9.06E-04	1	5	1.21E-02
1.17E+03	-0.549013564	23	2.35E+03
1.31E+01	-0.1845987	9	3.22E+00
1.42E+01	0.182480183	37	4.65E-01
3.53E+01	0.520957596	42	4.89E-04
3.35E-01	0.884478648	7	2.02E-02
1.27E+00	0.87839578	5	3.89E-02
1.57E+00	-0.579193026	11	5.27E+01
4.36E+00	-0.91615047	2	4.86E+00
1.47E+00	-0.506857385	5	5.13E+00

4.32E-01	-0.447632505	10	1.74E+01
1.80E-05	1	22	4.77E-07
2.95E+05	-0.580949272	13	1.07E+02
2.11E+02	-1	8	3.21E+02
1.76E+00	-0.520362419	4	3.91E+00
7.99E+00	-0.003238483	39	1.56E+01
3.31E+00	0.312263682	6	2.70E-01
7.65E+01	-0.36963664	18	8.25E+01
4.64E+00	-0.231988197	15	1.28E+01
3.31E+01	0.28011962	25	1.35E-01
1.38E-01	0.126317838	2	5.09E-01
2.61E+01	0.3798666	23	4.59E-02
8.60E+01	0.250800076	10	3.06E-01
2.68E+04	-1	14	3.82E+04
9.71E-02	0.40565154	7	1.69E-01
3.65E-01	0.40501196	17	6.23E-02
2.63E+00	0.651215531	4	1.07E-01
2.50E-01	0.631713765	6	7.58E-02
5.52E-02	1	3	1.90E-02
1.17E-02	1	7	1.41E-03
7.77E-02	-0.02170609	5	9.28E-01
2.28E+00	0.062618404	11	9.60E-01
1.15E-02	0.575385288	6	9.48E-02
2.04E-01	0.130170381	7	5.71E-01
3.94E+00	-0.639583914	3	3.88E+00
4.69E+02	0.245197011	12	2.99E-01
3.79E+02	-2	3	7.11E+01
4.78E-04	0.926749547	8	1.20E-02
8.16E-07	2	26	1.88E-09
5.64E+00	0.379381023	6	2.07E-01
1.65E+02	-0.62137595	6	1.11E+01
6.92E+02	-1	6	7.61E+01
5.02E+12	-0.37754781	76	2.28E+08
1.40E+02	0.22403393	39	2.12E-01
9.89E-01	0.321171878	5	2.77E-01
4.64E-03	0.531276056	18	1.72E-02
4.00E-09	2	23	3.29E-10
2.07E+01	-0.291441444	12	1.09E+01
9.16E+02	0.360971518	9	1.75E-01
8.16E+00	-0.053521498	9	1.60E+00
5.55E-01	0	4	7.91E-01
7.92E+02	-0.61074995	5	7.40E+00
2.77E+15	-1	37	3.43E+11
1.13E+12	-0.962127642	37	4.18E+08
4.41E-01	-0.012199838	1	6.29E-01
5.39E-08	0.605295401	82	4.33E-08
7.08E-01	0.215891271	3	4.13E-01

2.26E+00	0.778184753	4	7.25E-02
1.84E+02	-0.782004353	10	1.21E+02
5.81E+03	-0.6275627	29	5.33E+04
1.70E+04	-0.8713945	23	1.01E+05
2.39E+00	0.571904543	12	3.36E-02
3.66E-02	0.669953358	5	8.11E-02
2.95E-02	0.331409272	25	7.07E-02
1.91E-01	0.125634631	3	5.24E-01
2.58E+01	-0.53325477	5	5.63E+00
6.83E+00	-0.017931374	6	1.00E+00
3.29E-01	0.111191266	4	5.62E-01
1.35E-02	0.961103418	7	1.44E-02
1.35E-01	0.431273921	4	2.10E-01
3.03E-01	-0.041987419	4	9.00E-01
1.06E-01	0.693231029	11	1.88E-02
6.79E+05	-0.435889387	22	4.73E+02
1.53E-03	0.698036529	40	2.15E-05
2.54E-04	1	16	7.15E-05
4.61E-03	0.931885152	12	3.02E-03
9.52E+00	0.243278492	10	3.19E-01
9.57E-02	1	4	2.87E-02
1.44E-13	2	30	1.10E-11
5.85E-03	0.654601587	7	5.59E-02
3.38E-02	-0.235633201	6	2.39E+00
1.71E+07	-0.718831289	32	6.77E+05
1.42E-01	0.008717648	9	1.15E+00
6.09E-02	2	3	8.19E-03
1.81E+00	-0.350883615	8	6.13E+00
2.37E+00	0.263551938	10	2.84E-01
2.69E-01	0.51210743	17	2.39E-02
1.46E+02	-0.335219234	17	4.72E+01
2.00E+04	-0.907858016	13	1.10E+03
2.53E+00	0.382202728	18	6.98E-02
6.60E+02	0.1047472	25	1.22E+00
1.05E+00	0.556770328	6	1.02E-01
1.31E-14	1	49	7.87E-13
6.32E-06	2	12	7.47E-06
4.39E-04	2	15	9.82E-06
3.88E-03	1	8	4.42E-03
8.83E-01	-0.063111885	5	1.07E+00
4.70E+02	-0.285791861	11	8.44E+00
3.77E-02	2	2	1.47E-02
2.87E-03	2	8	3.97E-05
5.40E+01	0.490476863	12	5.79E-02
5.27E+01	0.353934092	31	3.36E-02
2.34E+04	0.35373632	64	2.69E-03
3.81E-02	2	4	5.51E-03

4.47E-01	-0.226353981	7	2.77E+00
3.62E+04	0.179903303	24	4.74E-01
4.25E-01	0.911263426	11	4.81E-03
2.97E-01	-0.085568234	5	1.16E+00
4.82E+00	-0.001361328	4	7.94E-01
2.19E-02	0.296548381	12	2.12E-01
9.63E-02	0.086386425	16	1.03E+00
4.99E+00	-0.056268229	6	1.17E+00
6.34E+04	-0.347002363	21	1.37E+02
6.33E+00	-0.323728015	6	3.39E+00
9.53E+00	-0.307599993	4	2.03E+00
7.26E-01	-0.130151214	3	1.02E+00
4.29E-01	-0.010026496	2	6.84E-01
8.85E+00	-0.441505483	6	5.41E+00
1.51E+01	-0.610709667	11	6.41E+01
1.17E+02	-2	7	1.02E+03
2.56E+07	-2	16	8.23E+05
8.80E-02	0.035585381	17	1.70E+00
9.90E-02	0.337238522	7	2.28E-01
1.46E+02	-0.111235413	8	1.90E+00
1.36E+02	-0.378018911	7	5.42E+00
4.03E+01	-0.500704262	12	4.40E+01
7.79E+05	-0.318183206	33	1.54E+03
6.40E+02	-2	4	2.50E+02
3.86E+00	-0.559013288	8	1.69E+01
1.82E-01	0.529966882	4	1.55E-01
1.20E-06	3	6	1.68E-05
5.65E+00	-0.408021175	7	6.19E+00
9.36E-01	-0.071299671	7	1.39E+00
4.17E+01	-0.996051477	5	2.87E+01
2.94E+09	-0.249411583	81	6.32E+06
4.05E+00	0.254376973	6	3.40E-01
3.59E-05	1	29	9.31E-08
1.22E-04	0.965022566	17	4.13E-04
5.37E-01	0.147006793	5	5.12E-01
2.69E-02	0.681760792	6	6.21E-02
4.21E-01	0.67000734	13	1.40E-02
2.21E-01	-0.411291575	9	1.08E+01
2.12E+00	0.574593967	13	2.76E-02
6.53E-01	0.060628678	11	9.72E-01
2.49E-01	0.54611946	14	2.88E-02
4.46E-01	-0.022368573	1	6.40E-01
6.95E-01	0.140393475	5	5.24E-01
6.37E-01	0.759769027	4	7.67E-02
1.95E+01	0.204493815	10	4.00E-01
2.70E+01	-0.121792216	10	2.64E+00
1.58E+00	-0.149568048	5	1.46E+00

7.18E-01	-0.27228667	2	1.21E+00
7.23E-01	-0.472156677	4	3.37E+00
1.88E+30	-2	66	1.80E+27
6.58E+00	-0.358266938	4	2.38E+00
9.03E-01	0.929743342	8	1.18E-02
1.27E+00	0.119884764	11	6.72E-01
2.17E-01	0.59847339	15	1.60E-02
4.62E-02	0.425350604	6	1.72E-01
3.34E-01	0.383878593	20	5.74E-02
1.84E+01	-1	5	3.35E+01
5.05E+01	-0.896826543	6	3.31E+01
1.03E+01	-0.730806967	3	4.93E+00
7.79E+00	0.368602962	7	1.99E-01
9.84E+01	-0.19158074	10	3.96E+00
5.54E+00	-0.422714458	7	6.61E+00
1.60E+06	-0.790173863	27	2.29E+05
3.44E+00	-0.00739509	9	1.25E+00
5.50E-01	0.7362752	7	3.90E-02
3.19E-01	0.279370626	4	3.35E-01
8.95E-01	1	1	9.23E-02
3.42E+00	0.257017855	9	3.05E-01
1.81E+00	0.955271854	6	2.09E-02
1.65E-01	1	7	5.58E-03
3.85E+00	0.526671	19	1.54E-02
1.17E-03	1	9	4.99E-03
4.43E-25	2	45	1.12E-19
9.11E-01	0.49401041	8	9.90E-02
2.98E+00	0.629328376	5	9.36E-02
8.98E-01	1	4	1.49E-02
1.28E+00	-0.029237251	3	7.85E-01
1.04E+02	-0.220161455	8	3.24E+00
1.48E+01	-0.154216411	7	2.01E+00
6.35E-01	0.013453871	4	7.59E-01
1.23E+00	0.62552045	15	1.29E-02
5.16E-01	0.766512269	12	9.13E-03
1.22E-01	1	7	2.10E-03
4.56E-04	1	14	2.10E-04
5.05E-01	0.595269172	7	7.28E-02
8.17E-01	0.327746107	3	3.08E-01
3.24E-02	0.350926211	5	2.50E-01
1.87E-08	2	17	2.18E-08
7.91E-01	0.935062008	6	2.27E-02
1.17E+00	-0.526700666	4	3.99E+00
1.73E+01	-0.423939023	11	2.00E+01
9.88E-03	0.652557268	15	1.04E-02
1.25E-10	2	21	1.09E-07
1.71E+02	-0.531064685	14	1.03E+02

3.08E+01	-0.444827671	12	3.03E+01
5.08E-01	1	12	1.55E-03
1.29E-06	2	12	4.51E-06
7.57E-09	3	10	2.67E-08
2.57E-01	1	5	5.98E-03
9.18E-01	0.604602597	5	1.02E-01
1.68E+00	0.10085781	16	9.14E-01
6.13E-02	0.735693498	9	2.37E-02
2.40E+04	-0.960784279	11	5.70E+02
1.34E+00	-2	4	1.68E+02
3.89E-01	-0.175031659	3	1.15E+00
1.61E-08	0.531494994	53	7.01E-05
7.11E+00	-0.686120956	1	1.99E+00
5.60E-01	-0.114625233	1	7.49E-01
5.05E-01	-0.186508657	4	1.40E+00
1.05E-05	1	16	7.52E-06
2.17E-14	2	29	7.06E-10
8.63E-01	-0.282440035	6	2.87E+00
1.46E+00	-0.564039993	2	2.27E+00
3.00E+00	-0.581830898	6	9.45E+00
5.81E+04	-0.586719774	15	2.23E+02
6.94E+08	-0.469724888	45	6.29E+05
1.86E+01	0.432088752	7	1.50E-01
7.31E+00	-0.376774055	9	8.96E+00
4.78E-02	0.811783287	15	2.87E-03
1.62E-02	0.442458011	46	1.50E-03
7.24E+00	-0.2274995	6	2.31E+00
1.87E+02	-0.349611845	14	2.60E+01
2.58E-03	1	7	2.89E-03
2.80E-15	2	25	3.49E-12
3.62E-01	0.296513998	1	3.70E-01
3.62E-01	0.296513998	1	3.70E-01
7.10E+00	-0.439821666	5	4.05E+00
2.11E+00	-0.24920525	15	1.47E+01
9.37E-01	-0.36360424	10	1.07E+01
1.52E+00	-0.826417012	7	3.95E+01
8.57E+02	-0.575095101	10	3.64E+01
7.66E+00	-0.374784611	7	5.34E+00
4.94E-02	0.567790572	14	2.44E-02
1.04E-01	0.806994051	3	8.80E-02
6.69E+02	0.095361733	9	7.22E-01
2.33E+02	-0.217874168	4	1.54E+00
4.34E+02	0.049699117	10	9.79E-01
1.40E+00	0.26156199	5	3.42E-01
7.61E+04	1	60	9.96E-14
3.05E+01	-0.308537161	15	2.38E+01
6.67E+03	-0.728272019	16	1.05E+03

1.25E+01	-0.424132761	7	6.65E+00
2.33E+08	-2	11	5.73E+04
2.67E+01	-0.77810549	6	2.06E+01
4.55E-01	-0.008537131	1	6.25E-01
5.53E+01	0.367637224	19	7.37E-02
6.76E-01	0.325755761	28	6.27E-02
1.09E+04	-3	4	5.53E+03
2.33E+07	-3	9	1.64E+06
1.33E+07	-3	8	2.27E+06
3.17E+06	-2	16	3.20E+06
2.92E+00	-0.013165606	16	2.41E+00
3.07E-11	2	21	9.33E-11
4.36E-01	-0.010797418	1	6.27E-01
4.36E-01	-0.010797418	1	6.27E-01
3.55E-01	-0.092314108	10	2.23E+00
1.96E-06	3	7	1.06E-05
1.69E-05	2	19	2.31E-08
3.22E-02	1	3	2.50E-02
1.58E+00	-0.661017539	6	1.29E+01
1.12E+01	0.42660767	7	1.54E-01
5.50E-02	1	4	2.45E-02
1.99E+01	-0.027060202	18	3.29E+00
7.39E-05	0.303350229	13	1.92E-01
1.97E-03	0.884373559	3	7.18E-02
1.83E-02	1	6	9.95E-03
5.75E-01	-0.023293113	1	6.41E-01
2.34E-05	2	10	2.76E-05
1.59E-05	2	19	5.52E-07
5.78E-06	1	17	3.79E-06
1.88E-02	1	13	4.13E-04
5.09E-01	0.872969839	6	2.90E-02
3.85E+00	-0.371796012	4	2.48E+00
2.90E+07	-1	11	7.56E+03
1.34E-01	0.253661801	6	3.41E-01
1.03E+00	0.592285001	9	5.10E-02
3.44E+00	0.749237453	36	2.21E-05
5.03E+01	0.059603358	19	1.54E+00
1.15E+00	-0.217326077	9	3.83E+00
3.00E+01	-0.792802325	3	5.80E+00
6.76E+03	-1	12	2.76E+03
1.96E+00	-0.355111116	4	2.35E+00
9.13E-01	0.089314893	2	5.52E-01
1.49E+04	-0.182983988	16	1.02E+01
7.92E-11	2	24	1.40E-08
8.12E-11	2	27	1.27E-09
9.80E-02	0.468901164	5	1.65E-01
2.13E-03	2	5	1.90E-04

1.60E-08	0.670309014	88	9.54E-10
3.27E+13	-1	28	8.00E+08
2.63E-01	-0.231033129	4	1.61E+00
9.90E+01	-0.137486828	12	3.87E+00
1.27E+00	1	7	8.88E-03
5.36E-03	0.364368813	41	1.27E-02
1.63E-01	1	12	1.56E-03
4.03E-01	-0.062660852	3	8.57E-01
2.84E+00	-0.282030101	3	1.52E+00
5.38E+11	-0.598955864	36	4.23E+05
1.52E-13	3	18	3.69E-11
6.27E-10	1	31	3.91E-09
1.14E-01	0.224554242	18	3.08E-01
2.71E-01	0.721967163	6	5.30E-02
4.72E-04	0.763085182	14	5.53E-03
8.32E-02	2	4	2.79E-03
4.94E-01	0.876296665	3	7.34E-02
8.93E-02	1	6	3.34E-03
1.68E-04	2	7	1.01E-03
3.21E+02	-0.134723337	33	7.91E+01
1.01E-01	0.785244269	11	1.06E-02
2.42E+00	-0.210264761	7	2.58E+00
2.32E-08	0.761263067	29	1.12E-04
2.56E+00	-0.231892394	11	6.03E+00
1.71E+00	-0.198791487	8	2.92E+00
4.32E-01	-0.017736438	3	7.62E-01
2.93E-01	-0.288283464	6	2.94E+00
7.50E+01	-0.739636093	14	5.03E+02
4.49E-14	0.868780901	82	1.75E-12
7.53E+00	0.413310797	7	1.63E-01
1.40E+01	0.193729613	27	3.96E-01
1.51E+01	-0.736569657	8	4.03E+01
6.34E+00	-0.102223126	5	1.23E+00
9.76E+01	-0.766400038	8	4.66E+01
1.89E-01	0.85878021	8	1.67E-02
1.51E+01	-0.119482469	9	2.27E+00
1.24E+00	0.289746029	3	3.41E-01
1.41E-01	0.342321114	3	2.97E-01
1.19E-02	0.937650254	8	1.14E-02
2.44E-07	2	21	2.94E-08
1.79E-05	2	10	5.35E-06
2.81E-02	0.565029908	13	2.96E-02
1.65E+00	0.056820757	24	2.11E+00
4.67E-01	-0.052367315	4	9.29E-01
1.90E-01	0.725360066	5	6.67E-02
1.03E-03	1	13	5.53E-04
1.08E+00	0.758673052	4	7.70E-02

1.61E-04	2	7	8.85E-05
2.24E-03	1	5	5.80E-03
1.68E-01	0.005008056	3	7.18E-01
9.77E-01	0.032997375	1	5.82E-01
2.52E+00	0.404323364	1	3.08E-01
5.91E-01	-0.384541066	7	5.58E+00
2.88E-01	1	2	7.28E-02
3.88E-01	0.212177632	1	4.28E-01
9.83E-02	0.128673812	5	5.46E-01
1.81E-02	2	3	1.95E-03
6.94E-11	2	22	1.27E-11
4.76E-05	3	9	1.79E-07
2.12E-06	2	19	1.37E-08
1.03E-03	2	7	2.83E-04
1.80E-02	0.298527479	29	8.70E-02
4.32E+00	0.34152155	4	2.77E-01
2.62E+00	0.218048625	16	3.37E-01
2.78E-01	0.852880445	8	1.72E-02
1.09E+01	-0.713596441	6	1.60E+01
2.76E+01	-0.204042678	7	2.51E+00
1.27E+02	-0.203473648	18	1.73E+01
8.80E-01	-0.274638386	2	1.21E+00
1.03E+03	-0.600142686	9	2.95E+01
5.24E-01	-0.080583367	5	1.14E+00
4.39E-01	0	3	7.28E-01
2.40E+06	-2	13	2.19E+05
2.73E+19	-2	46	5.75E+19
6.28E+00	-0.094733402	17	5.47E+00
1.07E+05	-1	9	8.32E+02
4.75E+04	-0.859570658	11	3.03E+02
5.28E+04	-0.973708123	13	1.76E+03
1.25E+04	-0.853260909	5	1.74E+01
4.31E+02	-0.793139819	5	1.41E+01
1.13E+01	-0.603132625	4	5.04E+00
1.97E+01	0.179865543	13	4.64E-01
1.91E+02	-0.566936406	5	6.34E+00
5.39E+00	-0.77582846	6	2.04E+01
9.24E+03	-2	8	7.75E+03
4.56E-01	-0.442538366	3	2.32E+00
2.68E+01	-0.533538749	11	3.96E+01
4.24E-01	-0.173683778	3	1.15E+00
5.15E-01	-0.041476793	4	8.98E-01
3.97E-01	0.563985962	5	1.18E-01
2.06E+00	0.809293848	9	1.60E-02
7.82E-01	0.726678726	8	3.18E-02
4.33E-01	0.507175388	3	1.93E-01
1.83E-01	0.644870925	7	5.84E-02

1.61E+00	0.406021381	10	1.25E-01
2.36E-04	1	12	1.63E-03
4.22E-05	1	21	1.35E-06
3.22E-01	0.953758454	9	7.41E-03
4.90E-06	1	21	1.90E-05
1.62E-01	0.165268418	6	4.84E-01
1.89E+02	-0.756788639	11	1.60E+02
4.89E+00	-0.392619654	11	1.64E+01
9.10E-01	-0.591157128	3	3.42E+00
7.08E-01	-0.339224111	1	1.10E+00
3.41E+01	-0.323775976	9	6.76E+00
9.98E-01	-0.694859408	5	9.95E+00
1.05E+00	0.717002965	10	2.06E-02
1.69E+04	-0.4059867	16	6.81E+01
2.83E+04	-2	7	9.12E+02
5.72E+04	-0.368568352	12	1.82E+01
6.29E+01	-0.549776493	2	2.20E+00
7.00E-01	0.415168866	15	7.01E-02
3.12E-01	0.035320574	12	1.22E+00
3.72E-01	0.533759826	10	5.95E-02
5.10E-01	0.905762511	3	6.79E-02
5.60E+02	-0.557250355	22	1.85E+03
1.49E+09	-2	17	1.87E+07
1.07E-02	1	4	8.36E-03
4.04E-03	2	2	6.02E-03
4.47E-01	0.165099074	1	4.64E-01
1.03E+00	2	3	4.86E-03
3.63E-01	0.471641387	7	1.26E-01
4.44E-01	0.027113506	1	5.88E-01
3.73E+01	0.309286101	2	3.43E-01
1.60E-02	1	5	8.84E-03
3.66E-01	0.104714079	4	5.73E-01
1.12E-05	0.847691018	41	8.76E-07
1.36E-04	1	17	7.25E-06
4.42E-01	0.038391671	3	6.58E-01
1.66E-01	0.602923126	23	3.39E-03
2.45E-01	-0.026469288	5	9.44E-01
1.37E-01	-0.30305341	5	2.50E+00
1.19E+00	-0.093775544	3	9.30E-01
1.78E-02	1	16	3.69E-04
3.12E+00	-0.211654837	6	2.17E+00
4.57E-01	0.271524877	13	2.41E-01
4.45E+00	0.467135343	9	9.94E-02
3.34E-01	0.452541191	9	1.07E-01
2.22E+00	0.074902278	3	5.98E-01
6.34E+08	-0.945304515	26	1.11E+06
6.55E-01	-0.029372387	2	7.13E-01

5.24E-03	1	19	1.30E-05
8.84E-08	2	13	7.58E-07
5.14E-02	1	6	2.81E-03
2.32E-08	2	18	7.53E-08
1.85E-13	3	18	1.63E-11
7.93E-03	0.400696196	19	5.32E-02
6.84E-01	-0.286575409	4	1.91E+00
1.00E+06	-0.76600036	21	1.25E+04
2.59E-04	0.613752629	10	3.74E-02
5.95E-04	2	8	1.93E-04
3.41E-01	0.444238963	31	8.44E-03
2.59E-01	0.196851388	17	4.02E-01
1.09E-08	2	23	3.50E-09
3.86E+05	-0.86761838	18	8.94E+03
4.65E+03	-1	8	8.38E+02
9.42E+00	0.107110559	7	6.32E-01
1.60E+01	-0.341253159	11	1.19E+01
1.50E+01	0.007740684	7	9.82E-01
1.13E+00	0.206382798	11	3.92E-01
4.52E-01	-3	6	9.97E+04
4.79E+00	-0.326127896	15	2.74E+01
1.13E+00	-0.442415845	4	3.08E+00
6.15E-01	-0.017060211	4	8.33E-01
2.45E+02	-0.893266798	11	3.74E+02
4.74E-01	-0.11849901	3	9.92E-01
3.61E-01	0.825402488	6	3.51E-02
7.31E-02	0.792545269	8	2.31E-02
2.90E-01	0.855934888	3	7.74E-02
4.91E-02	0.054844036	10	9.50E-01
1.87E-01	0.396075906	15	8.17E-02
1.86E-01	0.511349294	2	2.21E-01
1.67E-03	0.767160575	17	2.43E-03
7.52E+02	-1	12	4.70E+03
3.49E+00	-0.185736158	6	1.96E+00
1.07E-01	0.959585486	6	2.06E-02
6.52E-11	2	14	4.95E-08
2.06E-09	4	9	7.77E-09
1.27E-03	2	9	3.90E-04
1.01E-07	2	23	6.96E-11
3.22E+00	-0.070825352	14	3.12E+00
3.70E-01	0.18669368	2	4.47E-01
4.85E+00	-0.574994617	2	2.32E+00
5.89E-01	0.711797043	13	1.04E-02
2.39E-02	0.520506461	10	6.42E-02
4.18E+01	0.661489806	8	4.37E-02
1.06E+01	-0.483518322	5	4.72E+00
6.16E+00	-0.375265475	9	8.89E+00

2.61E-02	1	5	8.89E-03
1.86E-01	0.032270649	6	8.22E-01
1.28E-03	0.696114671	15	7.30E-03
3.28E-20	2	38	5.06E-17
2.18E-08	4	6	3.18E-07
3.04E-05	3	5	2.15E-05
1.37E-02	1	10	5.41E-04
9.32E-02	0.527127173	24	7.04E-03
3.45E+01	-2	5	4.58E+02
5.19E+02	-0.901609539	7	5.51E+01
3.13E+00	-0.753273579	7	2.86E+01
1.84E-01	0.37540297	32	2.22E-02
3.22E-06	0.771175265	36	1.51E-05
4.44E-01	0.393065511	1	3.14E-01
3.06E+01	-0.69583207	6	1.49E+01
1.26E+02	-0.698766074	4	6.76E+00
1.55E+14	-2	18	3.40E+09
1.28E+01	-0.670121339	5	9.12E+00
4.49E-01	-0.030974654	1	6.49E-01
2.35E+00	-0.594922251	6	9.96E+00
1.49E+00	1	19	5.54E-06
2.23E-03	1	30	6.32E-09
2.92E-04	2	7	8.34E-05
1.72E-02	0.55621906	10	5.22E-02
9.48E+00	-0.435107051	12	2.84E+01
1.72E+00	0.075929978	5	6.58E-01
1.56E-01	0.16768642	9	4.91E-01
2.31E-01	0.60000625	4	1.25E-01
7.50E-01	0.167868099	5	4.76E-01
7.65E-01	0.708697483	13	1.06E-02
5.16E+00	-0.102377384	7	1.60E+00
3.01E-01	0.803615047	4	6.70E-02
5.04E-01	0.545152096	1	2.42E-01
8.75E-02	1	5	1.03E-02
3.23E+04	-0.328942347	27	4.56E+02
6.43E+00	-0.64991806	4	5.82E+00
3.12E+00	-0.088990763	6	1.33E+00
2.35E-01	0.314783583	6	2.67E-01
7.68E+01	0.096429687	10	7.47E-01
2.28E-01	-0.388580173	5	3.38E+00
3.85E-01	1	8	3.37E-03
3.45E-01	2	1	2.10E-02
4.15E+00	-0.591867047	8	1.99E+01
2.35E-01	0	2	6.69E-01
1.90E+01	-0.126085442	4	1.16E+00
1.33E-01	0.675377124	10	2.62E-02
3.30E-07	2	12	3.11E-06

1.63E-03	1	17	6.09E-05
7.92E+02	-0.486174612	13	5.41E+01
8.18E+14	-0.211815005	82	1.82E+06
4.13E+01	0.11015846	18	9.03E-01
9.81E-01	0.011775624	2	6.52E-01
1.70E-07	0.607162225	89	1.06E-08
2.38E-07	2	11	1.05E-06
1.21E-02	1	4	2.56E-02
3.08E+01	-0.012104759	6	9.81E-01
1.91E-02	2	4	4.87E-03
9.60E-03	1	7	6.60E-03
9.69E-01	0.647048132	4	1.08E-01
4.61E-01	-0.043841166	5	1.00E+00
1.37E-02	0.063995741	25	2.04E+00
3.38E-01	0.128813626	10	6.19E-01
2.22E+00	0.279948138	11	2.47E-01
1.51E+03	-0.973090257	11	6.16E+02
8.97E+02	-0.019438782	20	3.68E+00
2.22E+00	0.15303006	11	5.46E-01
9.97E-01	0.474529354	3	2.10E-01
6.85E-02	0.647350676	10	3.08E-02
2.04E+00	0.328552627	5	2.70E-01
7.11E-01	0.817611652	1	1.52E-01
8.57E-02	-0.16916674	5	1.56E+00
2.20E+00	0.798736326	9	1.69E-02
9.85E-05	0.596630686	27	1.73E-03
2.38E-03	0.888202566	6	2.73E-02
7.55E-02	0.788354015	7	3.09E-02
2.23E-02	1	17	4.74E-05
3.89E+08	-2	25	1.20E+09
1.19E+04	-0.424309636	23	5.48E+02
2.73E+01	-0.342206967	14	2.46E+01
1.53E-04	1	10	3.98E-04
6.43E-03	2	2	2.45E-02
3.55E-02	1	5	1.56E-02
8.07E-02	0.54544964	14	2.89E-02
3.32E-01	0.048713028	11	1.05E+00
5.50E-02	0.249378799	22	2.17E-01
4.12E-01	0.833293798	3	8.21E-02
4.11E-01	-0.009648863	4	8.15E-01
4.12E+00	0.498359853	22	1.33E-02
3.47E+00	0.522956639	3	1.85E-01
1.81E+02	0.412434607	7	1.64E-01
3.97E-01	-0.249775224	3	1.40E+00
1.59E+00	0.162101952	2	4.71E-01
1.08E-04	1	17	1.79E-04
1.15E+07	-0.378257408	30	1.90E+03

5.80E-02	0.080692612	4	6.17E-01
5.36E+00	0.129249215	3	5.19E-01
5.56E-20	3	20	6.75E-15
6.49E+00	-0.129700199	23	1.76E+01
1.88E+00	-0.216944871	11	5.50E+00
1.02E+00	-0.695210545	2	3.02E+00
1.97E+03	0.284418587	8	2.76E-01
1.10E+01	0.28256378	4	3.32E-01
2.25E+01	0.861909197	4	5.61E-02
7.40E+01	0.877885064	8	1.52E-02
1.20E+00	0.355162732	4	2.66E-01
7.22E+00	-1	6	2.59E+02
8.04E+01	-0.562844448	9	2.42E+01
1.81E+02	-0.634820492	15	3.29E+02
3.33E+00	-0.517615027	8	1.38E+01
4.24E-01	0.810552481	4	6.56E-02
4.85E-10	2	19	4.79E-10
6.03E+03	-0.42680636	15	6.16E+01
1.09E-02	2	2	1.78E-02
5.60E-02	0.578178578	4	1.34E-01
8.07E-02	0.542506737	14	2.96E-02
5.50E-01	0.754875878	10	1.65E-02
4.62E-04	0.715655366	10	2.07E-02
1.99E-01	0.506967083	9	8.03E-02
9.85E-07	1	9	1.39E-03
3.59E-06	2	9	1.71E-04
1.92E-04	0.973344756	11	3.27E-03
2.75E-01	0.106516007	14	8.12E-01
5.77E+00	-0.135948207	7	1.86E+00
4.44E-01	0.163120341	4	4.79E-01
2.76E+01	-0.374085922	12	1.89E+01
9.04E-01	0.604014006	9	4.79E-02
1.84E+00	0.091599925	4	5.97E-01
2.74E+01	-0.046666324	9	1.54E+00
4.51E+01	0.411925921	21	3.88E-02
8.77E+21	-0.938707789	62	9.12E+13
2.82E-01	0.40996544	6	1.83E-01
3.09E-01	2	8	2.84E-04
8.85E-01	1	14	8.97E-05
9.44E-02	0.379338323	9	1.59E-01
1.48E+02	0.084917512	8	7.30E-01
6.55E+00	-0.753268532	4	7.99E+00
1.08E-01	0.873684792	6	2.90E-02
3.50E-01	0.59199563	5	1.07E-01
2.41E-02	1	8	3.27E-03
1.37E-02	1	6	4.95E-03
2.70E+00	-0.205978116	2	1.05E+00

6.47E-01	-0.072223814	7	1.40E+00
1.18E+01	-1	6	6.66E+01
2.27E+01	-0.263607205	19	3.73E+01
2.12E+00	-0.37205235	7	5.28E+00
1.54E-09	0.966266118	52	1.70E-09
1.43E+01	-0.333782358	8	5.64E+00
9.87E+01	-1	5	4.56E+01
1.03E+00	-0.143033046	5	1.42E+00
1.82E+00	0.093820964	4	5.93E-01
3.23E+01	-0.098797155	21	9.48E+00
4.43E+00	-0.007331475	2	6.80E-01
7.53E+02	-1	11	5.19E+03
8.12E-02	1	5	2.47E-02
3.09E-01	0.259919687	2	3.81E-01
1.13E+00	-0.249317685	6	2.52E+00
7.76E-01	0.14401973	11	5.78E-01
1.07E+00	-0.003908059	7	1.03E+00
6.02E+04	-1	14	9.99E+03
1.05E+01	-0.293564108	17	3.25E+01
8.80E-01	1	9	1.24E-03
6.73E-01	0.092338581	4	5.96E-01
6.69E-01	-0.401773584	2	1.60E+00
4.51E-01	-0.122107894	1	7.59E-01
2.00E-01	0.168006102	8	4.86E-01
3.69E-01	0.47722204	2	2.38E-01
1.39E-01	0.294967388	6	2.89E-01
7.16E-01	-0.404216783	2	1.61E+00
2.09E-04	1	11	1.75E-04
1.37E-01	0.781141919	11	1.08E-02
4.35E-01	0	1	6.16E-01
5.58E+00	-0.022803228	7	1.12E+00
1.39E-16	1	80	3.60E-17
2.19E+02	0.015455761	7	9.49E-01
1.37E+00	-0.057058746	2	7.57E-01
5.99E-04	0.540544943	30	2.27E-03
4.06E-02	0.375071975	17	8.14E-02
3.30E-04	0.858700396	18	7.89E-04
2.16E-03	2	6	2.27E-04
3.21E+00	0.206383779	6	4.11E-01
3.84E+03	-1	15	5.75E+04
3.32E-01	0.140872497	2	4.93E-01
2.72E-02	0.758616833	10	1.62E-02
6.57E+03	-0.860963767	20	2.17E+04
4.38E-01	0.070725248	1	5.45E-01
1.18E-01	0.932263416	8	1.17E-02
2.76E+02	-0.030065484	14	2.29E+00
3.28E-04	0.739281047	12	1.10E-02

2.97E-04	2	6	1.95E-03
9.06E+06	-0.444645949	23	6.94E+02
1.88E+00	0.020782577	3	6.89E-01
4.43E-01	0	1	6.16E-01
4.43E-01	0	1	6.16E-01
5.73E-01	0.125196176	3	5.24E-01
7.83E-01	0.031761076	7	8.83E-01
4.13E-01	0.003738618	4	7.82E-01
2.48E-01	0.640207192	4	1.11E-01
1.02E-02	0.886963177	19	4.40E-04
1.08E+00	-0.119695869	4	1.14E+00
1.72E+00	-0.566730235	4	4.51E+00
1.08E-01	0.7733704	3	9.61E-02
6.81E-06	0.701238819	57	3.78E-07
6.85E-06	0.591631447	44	8.07E-05
8.09E-01	-0.450922938	4	3.16E+00
3.30E+00	-0.373154455	7	5.31E+00
3.07E+00	-0.167841648	8	2.51E+00
1.69E+00	-0.016064615	11	1.57E+00
1.02E+00	-0.102268536	5	1.23E+00
3.22E+01	-0.707749341	8	3.50E+01
9.94E-01	0.298945236	3	3.33E-01
1.39E+04	-0.978472026	14	3.09E+03
3.22E+01	-2	1	3.03E+01
8.24E+01	-1	3	2.93E+01
1.20E+01	-0.076649937	24	1.06E+01
7.62E-02	0.079289255	7	7.15E-01
2.15E+00	-0.244370524	3	1.38E+00
7.40E-01	0.073262613	13	9.94E-01
6.95E-01	-0.007604926	6	9.63E-01
6.08E-01	0.185580821	4	4.47E-01
4.35E-01	-0.005558271	2	6.77E-01
3.71E-01	0.194723349	2	4.39E-01
2.02E-01	0.272829715	8	2.92E-01
2.79E-01	0.145410851	18	6.48E-01
3.30E-01	0.070955934	24	1.78E+00
2.81E-01	0.116152793	8	6.27E-01
5.63E-01	-0.068260024	5	1.09E+00
1.34E+00	-0.008597079	4	8.12E-01
2.45E-01	-0.266521575	23	8.68E+01
1.01E+00	-0.113315767	6	1.47E+00
9.73E-01	0.093019176	12	8.28E-01
4.47E-01	-0.007492632	14	1.93E+00
3.52E+00	0.342655746	7	2.23E-01
4.01E+02	-0.344988407	15	3.19E+01
4.08E+00	-0.13199032	12	3.73E+00
1.38E-19	0.620651977	129	2.24E-12

1.85E-01	0.00081976	3	7.26E-01
4.23E-01	-0.040863701	5	9.93E-01
1.96E+00	-0.33295832	5	2.78E+00
4.66E+00	-0.614233649	8	2.22E+01
5.21E+00	-0.446978907	6	5.53E+00
1.90E+00	-0.486428321	4	3.52E+00
5.84E+00	0.329587443	5	2.69E-01
1.55E+04	-0.091831115	10	2.22E+00
6.43E-01	-0.152958325	4	1.27E+00
6.85E-01	-0.058573068	5	1.06E+00
5.02E-01	-0.060184567	3	8.52E-01
3.52E+00	-0.044058047	18	3.86E+00
2.62E-01	0.052430188	24	2.23E+00
5.70E-01	0.346830346	15	1.21E-01
2.27E-06	1	18	3.05E-06
2.42E+00	0.598127938	8	5.96E-02
5.28E-01	0.206154036	2	4.28E-01
3.51E-01	0	10	1.31E+00
4.29E-01	0	2	6.69E-01
6.41E-01	0.240327987	18	2.65E-01
1.29E+00	0.556672903	3	1.69E-01
2.13E+00	-0.705779502	3	4.62E+00
4.34E-01	-0.022976519	1	6.40E-01
3.94E-01	0.226536738	3	4.02E-01
1.16E+00	0.149898825	4	4.99E-01
2.56E+00	-0.292732727	3	1.57E+00
8.14E-01	-0.140353514	6	1.63E+00
5.09E-01	-0.700666279	10	7.53E+01
5.31E+00	-0.086520661	12	2.75E+00
3.68E-01	0	9	1.20E+00
4.44E-01	-0.138615186	4	1.21E+00
8.19E-01	-0.514985195	3	2.80E+00
5.88E-01	-0.075959011	2	7.89E-01
4.72E-01	-0.023182893	2	7.04E-01
4.77E-01	-0.039703766	1	6.59E-01
9.58E-01	-0.106438478	2	8.43E-01
1.81E+00	-0.414148346	4	2.82E+00
1.16E+00	-0.231068016	4	1.61E+00
4.29E-01	0	2	6.69E-01
4.35E-01	-0.074643749	3	8.85E-01
7.69E-01	0.424982107	7	1.55E-01
2.49E-01	0.215041576	6	3.97E-01
3.85E-01	0	7	1.02E+00
5.20E-01	-0.00224714	4	7.96E-01
2.04E+02	-1	7	1.54E+02
5.53E+03	-1	12	1.32E+04
7.16E-01	-0.123484015	4	1.16E+00

3.81E-01	-0.015794441	9	1.31E+00
5.80E+00	-0.545492184	13	8.27E+01
3.68E-01	-0.001759394	9	1.21E+00
1.85E-01	0.069367749	18	1.33E+00
2.64E-01	0.134828243	13	6.40E-01
1.20E+00	0.097523818	9	7.14E-01
2.68E+00	-0.12299142	5	1.33E+00
5.95E+04	-0.542249118	28	1.12E+04
2.81E+00	-0.434802906	5	3.98E+00
2.84E+00	-0.432288041	5	3.94E+00
6.30E+02	-0.713104007	9	5.39E+01
2.60E-01	0.004072403	19	2.66E+00
3.24E-01	0.146550877	5	5.13E-01
3.72E-01	-0.009977666	14	1.97E+00
5.01E-01	-0.00855716	11	1.50E+00
1.45E-01	0.05545108	30	3.05E+00
4.25E+05	-0.472474352	16	1.20E+02
1.07E+01	-0.732731483	9	5.99E+01
4.88E-01	-0.182991799	5	1.64E+00
6.14E-01	0	8	1.10E+00
1.35E+00	-0.320036087	9	6.62E+00
1.89E+00	-0.185184787	3	1.18E+00
2.75E+01	-0.802187969	7	3.55E+01
3.97E-01	-0.002170897	6	9.43E-01
1.24E+00	0.161868749	4	4.81E-01
1.02E+00	0	7	1.02E+00
3.51E-01	-0.147671919	7	1.95E+00
3.08E-01	-0.088683997	5	1.18E+00
3.93E-01	0	6	9.35E-01
7.96E-01	-0.202096709	6	2.09E+00
6.29E+00	-0.172295048	9	3.01E+00
2.15E+00	-0.230002584	3	1.33E+00
2.17E+00	0.12959893	7	5.72E-01
1.64E+00	-0.0033981	8	1.12E+00
1.05E+00	-0.174534437	6	1.87E+00
1.05E+00	-0.374201202	3	1.94E+00
6.08E-01	0.087588696	3	5.78E-01
4.07E+00	-1	3	1.19E+01
1.86E+01	-0.53632708	8	1.51E+01
8.27E-04	1	11	6.01E-04
2.01E+00	-0.070493305	9	1.75E+00
4.64E-01	-0.009684184	1	6.26E-01
2.82E-01	0.776719766	7	3.26E-02
2.33E-17	2	37	1.21E-13
9.70E-10	3	12	3.86E-08
1.54E+09	-0.357722086	74	6.89E+07
4.14E+00	-0.404564026	2	1.61E+00

7.12E+00	-0.323955217	11	1.07E+01
5.28E+05	-0.956606335	27	2.16E+06
1.80E+00	-0.09225479	2	8.17E-01
7.08E-02	0.620223841	14	1.64E-02
9.90E-03	0.707095618	9	2.76E-02
8.86E-03	0.726862644	9	2.49E-02
3.39E-02	0.777526692	5	5.55E-02
3.00E-02	1	3	2.07E-02
4.74E-06	2	12	4.99E-06
4.94E-03	0.758096509	9	2.10E-02
5.79E-01	0.124435979	8	6.02E-01
3.38E-01	0	13	1.68E+00
4.38E-01	0	1	6.16E-01
3.38E-01	0	13	1.68E+00
4.60E-01	-0.014755132	1	6.31E-01
2.19E+01	-0.484297724	10	2.15E+01
6.37E-01	-0.197692667	5	1.73E+00
3.37E+00	-0.679867557	7	2.06E+01
1.09E+00	-0.608693975	5	7.34E+00
3.31E+03	-0.576709988	10	3.68E+01
3.79E+01	-0.429419721	11	2.07E+01
6.72E-01	-0.306051509	3	1.62E+00
5.74E+00	-0.674536273	6	1.37E+01
1.58E+01	-0.476560528	7	8.39E+00
4.33E-01	-0.005983024	1	6.22E-01
6.99E-08	2	18	5.16E-08
2.56E-02	0.365755238	5	2.37E-01
4.42E-01	0.12519722	3	5.24E-01
3.78E-03	0.762323775	6	4.51E-02
4.04E-01	0.071358182	2	5.73E-01
9.65E+00	0.058961608	6	7.39E-01
4.74E-01	0.027245379	4	7.27E-01
1.11E+03	-0.632140011	13	1.54E+02
8.62E-01	-0.130070903	6	1.57E+00
5.11E-02	0.922021924	5	3.34E-02
7.06E+00	0.534990323	12	4.30E-02
1.30E+01	-0.465030584	7	7.97E+00
1.43E+00	-0.466030751	7	8.01E+00
5.47E+02	-0.870107556	11	3.24E+02
1.58E+00	-0.227126781	14	1.02E+01
1.75E+04	0.466693735	224	1.17E-13
6.61E-01	-0.424786123	4	2.91E+00
3.85E+00	-0.540499414	5	5.77E+00
2.71E+00	-0.538069017	5	5.73E+00
4.20E-01	0	3	7.28E-01
1.36E+00	-0.026699688	10	1.52E+00
4.77E-01	0	1	6.16E-01

6.18E+00	-0.214591256	8	3.15E+00
8.07E+00	-0.523913952	5	5.45E+00
2.92E+01	-0.538362649	4	4.13E+00
9.41E-02	0.424291296	14	7.26E-02
1.14E+00	-0.047687968	26	9.25E+00
3.32E+05	-0.439248287	36	2.56E+04
3.81E+01	-0.697504702	4	6.73E+00
5.10E+00	-0.053363242	7	1.29E+00
1.47E+00	0.409605036	5	2.03E-01
1.45E+00	0.073598934	2	5.71E-01
4.21E-03	0.875791066	15	1.72E-03
4.86E-01	-0.01971422	3	7.66E-01
4.29E+00	-0.716166958	7	2.42E+01
5.47E-01	-0.0886683	5	1.18E+00
1.12E-01	-0.40449298	3	2.10E+00
1.66E-02	0.269813643	7	3.08E-01
7.25E-02	0.781725649	6	4.18E-02
3.07E-01	0.199109021	13	4.04E-01
3.56E-01	0.026030819	8	9.73E-01
4.64E-02	0.200131998	14	3.99E-01
8.68E-05	2	6	4.60E-04
2.61E-01	0.488128664	12	5.88E-02
2.35E-01	0.176803145	18	4.82E-01
3.73E+00	-0.382774795	2	1.53E+00
1.23E+02	0.048443832	22	2.07E+00
6.13E+01	-0.635279019	10	5.16E+01
3.06E-01	-0.036259771	7	1.19E+00
8.18E+01	-0.496538111	23	1.27E+03
1.23E+12	-0.838722957	60	1.92E+12
1.30E+03	-1	11	1.39E+03
6.82E+07	-1	13	2.82E+04
1.14E+04	-1	12	1.90E+03
2.10E-01	0.332133981	8	2.18E-01
3.47E-01	0.528551164	1	2.49E-01
3.45E+00	-0.046828532	25	8.24E+00
9.30E-07	1	17	1.73E-05
1.62E-01	0.508826518	3	1.92E-01
4.83E+03	-0.645318561	15	3.58E+02
1.19E+03	-0.40980031	38	2.62E+04
4.83E+01	-0.506607797	10	2.45E+01
2.38E+00	-0.190493521	9	3.32E+00
4.11E-01	0	4	7.91E-01
7.61E+00	-0.221075513	6	2.25E+00
9.70E-03	-0.211502306	36	4.70E+02
8.89E+01	-0.737339138	6	1.75E+01
3.97E-01	-0.054681923	7	1.29E+00
1.38E+04	-0.81090683	12	3.51E+02

9.98E+00	-0.32876294	14	2.22E+01
6.58E-01	0	2	6.69E-01
4.87E+00	-0.521409499	9	1.94E+01
2.00E+00	-0.068408676	4	9.76E-01
5.71E-01	0	2	6.69E-01
3.76E-01	0	8	1.10E+00
4.42E-01	-0.105198406	8	1.85E+00
9.49E-01	0.073076934	6	6.99E-01
5.67E-01	0	4	7.91E-01
8.82E-01	0	6	9.35E-01
4.02E-01	0	5	8.60E-01
5.75E-01	0.246879095	5	3.60E-01
1.87E-01	0.546933778	7	9.01E-02
2.00E-02	0.509264654	15	3.28E-02
3.80E-01	0.009509417	7	9.74E-01
6.90E+00	-0.284448514	11	8.37E+00
4.38E-01	0.010042442	1	6.05E-01
2.32E-01	0.046995926	4	6.85E-01
5.60E-01	0.943917593	8	1.10E-02
1.06E-02	0.601446299	25	2.37E-03
1.17E-01	0.531296409	6	1.13E-01
1.64E+00	0.514962793	4	1.63E-01
7.04E-07	0.902825727	23	1.02E-04
1.73E+01	-0.32046231	11	1.05E+01
3.77E+03	-0.756871166	12	2.45E+02
1.61E+01	-1	13	2.35E+03
4.57E+00	-0.04313551	8	1.36E+00
5.10E-01	-0.093715102	5	1.20E+00
8.31E+00	-0.157419665	10	3.25E+00
1.06E+02	-0.552407343	9	2.29E+01
1.19E+01	-0.669460875	13	2.01E+02
1.75E+00	-0.001347233	10	1.32E+00
9.45E+02	-0.94114887	13	1.40E+03
3.29E+00	-0.655280529	3	4.04E+00
1.18E+00	-0.738125724	3	5.02E+00
1.23E+00	-0.057008247	10	1.82E+00
1.34E+05	-0.86978081	13	8.39E+02
1.61E+01	-0.728275617	6	1.69E+01
2.99E+00	-0.307801502	4	2.04E+00
2.18E-01	-0.672221592	9	4.33E+01
1.03E+02	-0.488126854	10	2.20E+01
4.48E-01	-0.096642336	4	1.06E+00
1.88E+02	-0.415971805	12	2.50E+01
2.73E+00	-1	9	2.71E+02
9.26E+00	-0.714059194	10	8.14E+01
4.59E+03	-0.951052175	18	1.96E+04
1.47E+00	-0.275577229	4	1.84E+00

7.14E-01	-0.081967722	13	3.01E+00
6.62E+01	-0.493106804	10	2.27E+01
7.33E+01	-0.381536855	14	3.31E+01
1.43E+01	-0.262224683	10	5.95E+00
7.88E-01	-0.182993034	4	1.39E+00
4.27E-01	-0.022312212	4	8.47E-01
2.73E+02	-0.982925058	8	1.34E+02
4.38E-01	0	1	6.16E-01
7.62E-01	-0.005025845	4	8.03E-01
2.40E+00	-0.0815403	5	1.15E+00
4.85E-01	-0.113509716	4	1.12E+00
2.56E+01	-0.285856692	8	4.46E+00
7.10E+00	-0.386440573	6	4.35E+00
4.58E+01	-0.516293594	6	7.28E+00
6.17E+04	-1	12	1.10E+04
7.07E+01	-0.541508045	12	5.79E+01
1.22E+00	-0.108988302	7	1.65E+00
1.70E+02	-0.195013251	9	3.40E+00
1.39E+00	-0.289721841	8	4.54E+00
8.27E+03	-0.268671497	7	3.34E+00
4.24E+00	-0.227389511	7	2.78E+00
4.11E-01	0	4	7.91E-01
2.35E+00	-0.357306873	4	2.37E+00
5.30E+00	-0.672938489	11	9.46E+01
1.30E+01	-0.246809201	8	3.69E+00
9.95E-01	-0.112095052	3	9.76E-01
3.53E+00	-0.010125541	5	8.91E-01
6.10E-01	-0.097000207	2	8.26E-01
2.24E+03	-0.575456898	13	1.02E+02
4.46E-01	-0.006430593	2	6.79E-01
3.62E+00	-0.139876398	6	1.63E+00
5.68E+02	-0.93300354	11	4.79E+02
1.61E+00	-0.117999485	3	9.91E-01
2.11E+00	-0.323815866	6	3.39E+00
8.00E+00	-0.820694959	3	6.24E+00
6.41E-01	-0.419536907	3	2.18E+00
6.18E+04	-0.669489384	15	4.35E+02
1.51E+00	-0.184766274	6	1.95E+00
4.16E+00	0.317459322	4	2.98E-01
1.21E+01	0.02031715	14	1.56E+00
1.10E+01	0.151954218	8	5.26E-01
4.06E+00	-0.353054458	4	2.34E+00
7.10E+01	-0.114369689	7	1.69E+00
1.46E+00	-0.053653216	5	1.04E+00
1.02E+00	0	6	9.35E-01
6.45E-01	0	2	6.69E-01
3.14E+02	-0.415322706	14	4.28E+01

2.13E+00	-0.28116504	5	2.32E+00
2.62E+04	-2	11	2.99E+04
1.11E+04	-2	7	6.06E+03
2.94E+02	-2	5	1.34E+03
1.68E+01	-1	2	9.05E+00
3.06E-01	-0.511125197	7	9.78E+00
2.95E+00	-0.257395919	3	1.43E+00
6.79E-01	-0.068616852	4	9.76E-01
4.07E+04	-0.514447533	17	2.35E+02
4.19E-01	-0.055715224	4	9.38E-01
5.63E-01	-0.012888774	4	8.23E-01
9.90E-01	0	8	1.10E+00
1.79E-01	0.211846403	9	3.88E-01
1.63E+00	0.310020065	13	1.83E-01
1.68E+00	0.274521477	11	2.56E-01
1.62E+03	0.200464867	12	4.03E-01
7.85E+06	-0.357685019	39	1.28E+04
1.65E+04	-0.966362865	20	6.42E+04
9.36E-02	0.103391212	9	6.92E-01
8.53E-02	0.468216865	13	5.91E-02
8.25E-05	0.942989207	19	2.53E-04
1.23E+02	0.065202246	14	1.11E+00
2.13E-01	0.720043443	4	8.67E-02
2.45E-01	-0.100316812	8	1.80E+00
4.24E-01	-0.000208728	1	6.16E-01
1.55E-01	1	5	1.62E-02
5.63E-01	-0.494627645	2	1.95E+00
4.76E+01	-1	3	1.79E+01
5.27E+02	-2	3	9.28E+01
9.46E-01	-0.757987095	1	2.25E+00
1.42E+02	-1	7	4.97E+02
1.33E+00	0.084638501	2	5.57E-01
6.11E-01	0.304851777	3	3.28E-01
1.06E-08	2	27	8.91E-10
2.09E+05	-1	12	2.23E+04
3.88E+01	-1	5	9.84E+01
7.67E+00	-0.362450185	8	6.48E+00
7.13E-01	-0.56749544	3	3.21E+00
4.97E+01	-0.507385843	12	4.60E+01
9.34E+06	-1	26	1.15E+07
5.44E-03	2	5	3.84E-03
1.05E+05	-2	19	4.90E+07
1.18E+01	-0.183173667	4	1.39E+00
5.90E-01	-0.029186696	7	1.16E+00
3.76E-01	0	9	1.20E+00
3.68E-01	0	9	1.20E+00
5.35E-01	-0.027818949	6	1.04E+00

1.56E-01	0.134661551	10	5.99E-01
5.15E-04	1	13	9.46E-04
4.38E-01	0.016221065	1	5.99E-01
2.02E+00	-0.73704677	5	1.15E+01
1.87E+00	-0.063604631	1	6.86E-01
9.92E+00	-0.335559864	4	2.22E+00
4.31E-01	-0.034194231	3	7.96E-01
2.40E-01	0.069296575	5	6.74E-01
1.00E-07	3	9	4.53E-07
4.19E-03	0.815048299	5	4.87E-02
2.91E+01	0.006383413	9	1.16E+00
4.50E+01	-0.541720161	10	3.00E+01
5.27E-01	-0.080023442	5	1.14E+00
4.97E-01	-0.131344365	3	1.03E+00
8.59E-01	-0.560013639	7	1.21E+01
4.68E-01	0	2	6.69E-01
1.82E-01	-0.258518594	5	2.14E+00
4.39E-01	0	2	6.69E-01
1.50E+01	-0.35127528	6	3.78E+00
1.09E+01	-0.24684293	11	6.62E+00
2.11E+00	-0.827344942	12	3.92E+02
7.23E-01	0	3	7.28E-01
2.55E+00	-0.460494873	6	5.83E+00
4.60E+03	-1	9	1.50E+03
2.05E+00	-0.597343673	2	2.44E+00
5.26E-01	0.090597413	5	6.25E-01
3.75E-02	0.677160235	7	5.06E-02
1.95E-08	0.72558736	33	6.99E-05
1.20E-13	1	26	7.08E-08
2.06E-02	0.306376636	22	1.14E-01
2.07E+00	-0.182116361	7	2.28E+00
1.86E+00	0.197965972	4	4.31E-01
1.86E+00	0.276694325	10	2.63E-01
7.95E-01	-0.021334851	18	3.11E+00
4.17E+00	-1	4	5.97E+01
1.49E-01	0.057571014	34	3.72E+00
4.39E-01	-0.000225045	1	6.16E-01
1.52E-02	0.446981011	19	3.37E-02
8.65E-02	0.296089418	3	3.35E-01
1.81E-02	0.385618983	13	1.07E-01
3.49E-03	0.959809641	18	3.05E-04
3.27E+00	-0.016898347	12	1.73E+00
7.81E+01	-0.503014932	16	1.55E+02
3.89E-01	0	7	1.02E+00
3.02E+01	-0.495318032	8	1.24E+01
4.34E-01	0	3	7.28E-01
4.72E-01	-0.116246737	6	1.48E+00

1.81E+00	-1	3	2.03E+01
3.02E+04	-1	11	6.62E+03
2.00E-06	0.189068138	98	3.64E-01
5.40E-02	-0.350485381	6	3.77E+00
4.28E-02	0.845952443	8	1.78E-02
4.09E-01	-0.163538632	4	1.31E+00
2.81E-01	0.711016838	3	1.13E-01
2.83E-01	0.292144963	2	3.56E-01
1.51E+00	-0.188977025	5	1.67E+00
1.45E+00	0	6	9.35E-01
1.26E+00	-0.48793558	7	8.82E+00
7.73E+00	-0.343965041	14	2.49E+01
2.32E+01	-0.081562312	16	4.31E+00
1.17E+01	-0.302050913	12	1.16E+01
5.13E+00	-0.201331115	9	3.52E+00
5.20E+00	-0.152266112	6	1.71E+00
5.93E+02	-0.303449895	11	9.43E+00
8.40E+02	-0.433626794	7	6.94E+00
4.61E+02	-0.948387549	6	4.06E+01
8.49E-02	0.724895004	6	5.23E-02
5.38E-05	1	12	1.14E-03
6.46E-01	0.65433092	9	3.66E-02
1.16E+00	1	8	6.98E-03
1.63E+00	0.388749359	7	1.82E-01
2.15E+00	-0.102167703	7	1.60E+00
4.71E-01	0.119713355	6	5.81E-01
4.94E-01	-0.12557207	2	8.78E-01
1.50E-05	0.800945913	18	1.36E-03
5.09E-01	0.006870951	42	1.64E+01
3.96E+00	-0.014047067	47	3.94E+01
5.75E-03	0.786865235	16	2.67E-03
2.15E+00	0.312184409	20	1.20E-01
3.82E-01	0.923166875	19	3.08E-04
3.30E+05	-1	13	3.72E+04
5.19E+00	-0.710113928	6	1.57E+01
4.38E-01	0	1	6.16E-01
1.62E+00	-0.535815839	3	2.96E+00
2.03E+01	-0.551856175	3	3.09E+00
2.57E+00	-0.164287462	4	1.31E+00
1.11E+00	-0.096757782	2	8.25E-01
1.66E+02	-1	12	1.19E+04
1.35E+02	-0.196789753	44	1.44E+03
4.29E-01	0	2	6.69E-01
6.69E+01	-0.659624865	4	6.00E+00
5.90E+00	-0.006632164	8	1.14E+00
5.29E-01	0	2	6.69E-01
2.11E+02	-0.443777931	11	2.26E+01

3.12E+00	-0.345725525	7	4.70E+00
3.57E+00	-0.192780646	8	2.83E+00
2.06E+00	-0.192837037	6	2.01E+00
5.70E+00	-0.112193965	8	1.91E+00
3.02E+00	-0.43256016	8	9.13E+00
4.96E+03	-1	11	2.39E+03
1.07E+01	-0.10975352	8	1.89E+00
1.14E+02	-0.48996782	11	3.02E+01
4.39E+02	-0.67675675	9	4.44E+01
6.64E-01	-0.056292387	4	9.40E-01
7.77E-01	-0.364488923	3	1.89E+00
4.21E-05	2	18	1.24E-06
3.53E-04	0.197026134	82	2.77E-01
2.12E+01	0.196221446	4	4.33E-01
2.35E+00	-0.045363619	10	1.70E+00
4.41E-01	-0.013288823	2	6.89E-01
4.05E-01	-9.95E-06	3	7.28E-01
2.34E+00	-0.238494961	9	4.29E+00
1.02E+00	-0.012028382	5	8.97E-01
2.59E+01	-1	6	1.46E+02
1.29E+01	-0.930541049	8	1.04E+02
4.45E+03	-2	6	9.44E+02
6.98E+02	-0.490520566	7	8.92E+00
1.43E+00	-0.028022323	5	9.49E-01
1.74E+00	-0.374348528	7	5.33E+00
4.61E+00	-0.223939698	6	2.28E+00
1.21E+00	-0.037268085	5	9.80E-01
1.68E+02	-0.57187551	9	2.54E+01
5.18E+02	0.228160485	13	3.28E-01
2.72E-01	2	5	3.61E-03
4.83E-01	0.137340813	3	5.08E-01
3.31E+02	-0.836478082	10	1.65E+02
4.67E+00	-0.226823574	9	4.03E+00
1.17E+02	-0.396914758	13	2.86E+01
5.75E+01	-0.559512169	14	1.28E+02
6.95E+02	-0.653900907	9	3.93E+01
4.24E+00	-1	8	2.16E+02
3.17E+01	-0.25798987	14	1.29E+01
2.49E-01	0.266140633	11	2.70E-01
5.57E-03	0.949871809	14	1.34E-03
2.98E-02	0.596252724	5	1.05E-01
5.11E-07	2	19	3.61E-07
8.39E-02	1	10	1.61E-03
5.54E+05	0.482312853	20	2.08E-02
9.52E+01	0.610211844	16	1.20E-02
8.56E-03	2	2	4.11E-03
8.68E-03	0.98557427	22	5.60E-05

4.42E-01	0.524532409	33	1.82E-03
6.82E-02	0.882585227	6	2.80E-02
1.04E-05	1	17	8.19E-05
3.96E+00	-0.222457825	8	3.27E+00
7.57E-02	1	5	1.93E-02
1.49E+00	0.97644892	13	1.56E-03
1.01E+00	-0.019362257	6	1.01E+00
1.26E-02	0.732875629	13	8.92E-03
1.07E-02	0.514520099	16	2.71E-02
3.76E-01	0	8	1.10E+00
3.41E+00	0	3	7.28E-01
3.15E+00	0.000422037	11	1.42E+00
5.17E-01	-0.310722557	7	4.02E+00
1.85E-01	0.092000176	8	7.05E-01
4.77E-01	-0.035788514	6	1.08E+00
4.51E-02	0.515883041	9	7.66E-02
5.91E-01	0.39162758	5	2.16E-01
2.64E+00	0.318679904	4	2.97E-01
2.04E+00	0.506448906	5	1.44E-01
1.20E+00	0.583930937	3	1.58E-01
2.54E-06	2	11	4.15E-05
1.92E-01	0.287083259	4	3.28E-01
9.84E-01	0.341038828	3	2.98E-01
3.14E-01	0.125428319	8	5.99E-01
2.34E-01	0	5	8.60E-01
1.10E-01	0.03632733	22	2.37E+00
4.11E-01	0	4	7.91E-01
5.38E-02	0.306145394	31	6.98E-02
2.37E-01	0.74687739	8	2.88E-02
3.09E-01	-0.000493773	16	2.16E+00
2.14E-01	0.479478848	5	1.59E-01
5.36E-04	2	5	5.18E-04
2.01E-01	0.339334332	3	2.99E-01
9.33E+01	-0.643929274	9	3.73E+01
1.02E+00	-0.31273559	2	1.32E+00
2.01E-01	0.01926944	16	1.83E+00
4.44E-01	-0.007595807	1	6.24E-01
8.52E-01	-0.436006649	9	1.23E+01
2.91E-01	0.000964094	5	8.57E-01
2.18E-01	0.07490515	10	8.46E-01
8.26E-02	0.80051836	4	6.77E-02
2.14E-01	-0.054276929	31	1.73E+01
1.48E+00	-0.211029976	8	3.09E+00
4.20E+00	-0.025944392	6	1.04E+00
8.10E+00	-0.286255618	21	7.14E+01
2.30E-01	-0.087474425	14	3.54E+00
1.45E-02	1	15	2.53E-04

2.75E-01	0.457736304	6	1.51E-01
2.54E-01	0.024262681	7	9.13E-01
3.66E-01	0.235485587	15	2.98E-01
2.90E-01	0.14476862	6	5.26E-01
1.42E-01	0.17351629	39	5.52E-01
3.67E-01	0	5	8.60E-01
4.27E-01	-0.029140405	4	8.65E-01
4.38E-01	0	1	6.16E-01
5.95E-01	-0.103892649	12	3.09E+00
2.57E-02	0.820492905	5	4.77E-02
7.27E-01	0.111547492	12	7.31E-01
9.26E-02	1	4	2.59E-02
9.99E+01	-1	7	9.59E+01
8.88E-01	-0.007407707	15	2.10E+00
4.41E-01	-0.055654918	2	7.55E-01
4.66E-01	-0.05765157	2	7.58E-01
2.78E+00	-0.547781387	5	5.92E+00
4.41E-01	0.013026917	2	6.51E-01
6.69E-03	0.275873731	130	1.84E-03
1.57E+02	0.08868643	30	1.86E+00
3.10E-01	-0.014642523	9	1.30E+00
5.78E-03	0.735186434	19	1.96E-03
1.04E+00	0.007533782	47	2.42E+01
5.65E+00	-0.141630423	15	6.20E+00
1.05E+00	0.217006123	6	3.94E-01
2.51E-01	0.083277064	19	1.22E+00
1.22E-01	0.412895456	11	1.08E-01
4.20E-03	0.487697002	28	6.56E-03
2.72E-02	0.696635513	9	2.92E-02
3.35E-01	0	3	7.28E-01
2.90E-02	0.33190749	6	2.50E-01
3.97E-02	0.671996713	10	2.67E-02
4.32E-01	0.013117613	3	7.03E-01
1.78E-01	0.016220935	10	1.19E+00
4.20E-01	0	3	7.28E-01
5.69E-01	0.328317164	25	7.35E-02
2.37E-02	0.861487157	12	4.83E-03
3.82E-01	-0.002254142	7	1.03E+00
1.46E+03	-0.964331817	6	4.33E+01
6.34E+03	-0.828415464	9	9.97E+01
2.82E+01	-0.896839379	7	5.40E+01
3.74E+00	0.094499486	3	5.68E-01
4.36E-01	-0.01866448	1	6.36E-01
1.60E-01	0.074236914	11	8.93E-01
9.86E-02	0.053051578	61	2.00E+01
3.91E+00	-0.208119485	7	2.55E+00
3.76E-01	0	8	1.10E+00

2.16E+05	-0.281813088	53	5.85E+04
1.12E+00	-0.304579774	5	2.51E+00
5.22E+00	-0.365229868	7	5.12E+00
2.07E+00	-0.24479878	6	2.47E+00
4.51E+00	0.560389966	3	1.68E-01
2.30E-01	0.074475992	2	5.70E-01
1.68E+01	0.0226133	8	9.89E-01
3.58E-02	0.385902337	13	1.06E-01
1.18E-03	0.928221001	6	2.33E-02
2.15E+00	-0.158411204	6	1.75E+00
6.67E+01	-1	10	9.03E+02
1.48E+00	-0.131835995	19	1.02E+01
2.28E+01	-0.218815197	15	1.15E+01
3.88E+08	-0.502835227	62	2.56E+08
9.12E-01	-0.127656151	8	2.06E+00
4.28E-01	-0.022070539	3	7.71E-01
2.71E+00	-0.284337684	3	1.53E+00
2.60E-01	-0.328625786	4	2.17E+00
9.62E-02	-0.041039152	2	7.31E-01
1.07E-01	0.661719283	1	1.98E-01
2.97E-02	2	2	7.32E-03
6.25E+00	-0.051676187	5	1.03E+00
2.32E+03	-0.875831225	9	1.28E+02
5.89E-01	-0.014609874	1	6.31E-01
4.17E-01	0	5	8.60E-01
4.24E-01	0.038579077	2	6.16E-01
2.13E-06	1	16	1.66E-05
4.48E-01	-0.223789774	1	9.03E-01
5.82E-01	0.045741212	5	7.32E-01
2.86E-01	0.304197382	6	2.79E-01
4.56E-02	0.521327672	9	7.44E-02
5.85E-10	2	15	4.06E-08
3.72E-06	2	14	5.82E-06
3.15E-02	0.438718754	20	3.26E-02
1.17E+00	-0.205262323	5	1.77E+00
4.32E+04	-0.977754422	14	3.07E+03
8.95E+02	-0.929576427	8	1.03E+02
4.84E+01	-0.257332649	21	5.23E+01
3.42E-01	0.17021087	5	4.72E-01
8.26E-04	0.734859718	13	8.79E-03
7.61E-02	0.20893441	19	3.53E-01
4.38E-01	0	1	6.16E-01
5.14E-01	0.13655455	6	5.43E-01
3.28E-01	-0.021129584	11	1.62E+00
1.99E-01	0.16592429	34	6.11E-01
4.38E-01	0	1	6.16E-01
1.83E+00	0	1	6.16E-01

2.48E+02	-0.627120262	8	2.36E+01
7.80E+01	-0.453093791	3	2.38E+00
5.33E+02	-1	5	7.30E+01
5.08E-01	0	1	6.16E-01
1.05E+02	-0.808569739	12	3.46E+02
3.92E-01	0.040183044	12	1.18E+00
3.69E-02	0.601894389	3	1.50E-01
2.34E-02	0.678839437	12	1.64E-02
5.03E-07	2	11	6.66E-06
9.10E-34	2	50	6.18E-23
3.46E-01	0.417679969	3	2.44E-01
1.64E+01	-0.174848649	14	6.88E+00
1.74E+01	-0.27222509	13	1.17E+01
2.07E+01	-0.356740823	12	1.68E+01
5.14E-01	-0.17465788	7	2.20E+00
4.83E-01	0	6	9.35E-01
4.57E-01	-0.028206321	13	2.05E+00
4.02E-01	0	5	8.60E-01
5.99E-01	0.053858574	8	8.49E-01
1.01E+00	-0.082971445	7	1.47E+00
4.64E+05	-2	9	2.27E+04
2.95E+00	-0.261254244	4	1.76E+00
2.31E+00	-0.332586278	7	4.43E+00
9.33E+00	0.440612405	9	1.14E-01
3.98E-03	0.200985853	31	3.49E-01
3.70E-13	5	9	3.00E-12
2.79E-03	1	7	1.55E-03
1.59E-03	2	4	6.81E-04
1.88E-15	2	42	3.23E-14
3.12E-05	1	7	2.01E-03
1.64E-02	0.793574546	8	2.29E-02
1.25E+02	-0.003862674	12	1.58E+00
3.52E-01	-0.235507987	7	2.88E+00
1.55E+02	-1	5	7.34E+01
1.22E+05	-0.969762598	26	1.53E+06
8.88E+05	-0.521500065	64	8.38E+08
2.42E-07	4	6	4.98E-07
5.08E-01	-0.019390214	20	3.68E+00
1.53E-01	0.302083354	22	1.20E-01
2.90E-01	1	7	2.47E-03
2.78E+00	0.042120482	13	1.24E+00
8.05E+00	-0.301251617	6	3.10E+00
4.94E+08	-2	21	2.47E+08
4.83E-10	1	34	2.73E-10
2.49E-05	2	16	2.56E-06
1.23E+00	0.26085948	12	2.69E-01
2.90E-01	0.1725843	19	5.05E-01

8.86E-02	0.089255784	29	1.77E+00
9.93E+01	0.191344	6	4.37E-01
2.45E+04	-0.134397986	66	9.23E+03
4.40E-01	-0.000944321	2	6.71E-01
7.13E-01	-0.177908446	6	1.90E+00
1.12E-01	0.214036568	9	3.83E-01
3.41E-02	0.957998264	4	4.17E-02
3.74E-01	0.001783833	8	1.10E+00
8.92E-02	0.133028355	20	7.63E-01
3.38E-01	-0.049866603	12	2.15E+00
2.32E-01	-0.248705607	4	1.70E+00
1.02E+00	0.349812052	37	2.28E-02
1.12E-01	-0.010280149	18	2.81E+00
8.08E-25	2	55	6.99E-20
1.42E+00	-0.108949417	24	1.58E+01
4.03E+04	0.077127071	115	1.38E+02
3.31E+01	-0.632901632	4	5.52E+00
2.44E+00	0.237039914	39	1.66E-01
4.52E+00	0.200759623	16	3.91E-01
8.55E-01	0.690224846	11	1.91E-02
8.91E-01	0.027067068	9	1.04E+00
1.58E-01	0.409002323	12	9.99E-02
6.55E-01	0.533797464	8	8.16E-02
4.73E-01	0.054612297	2	5.95E-01
9.93E-01	0.123673581	19	8.18E-01
4.12E-01	0.004585617	20	2.87E+00
6.20E+00	-0.159142586	7	2.06E+00
1.91E+00	-0.087795191	12	2.78E+00
1.48E-01	0.047306616	9	9.33E-01
1.73E-01	0.30972175	5	2.89E-01
3.12E-02	0.214232922	6	3.99E-01
4.37E+00	0.853651161	15	2.05E-03
1.14E-01	-0.159232416	9	2.81E+00
1.36E-03	0.720212932	11	1.59E-02
1.25E-01	0.97486682	8	9.47E-03
2.68E+00	-0.150965177	10	3.13E+00
3.96E-01	-0.052699196	1	6.74E-01
3.36E-01	-0.119773766	6	1.50E+00
4.05E-01	-0.020516825	2	7.00E-01
3.11E+00	-0.414100148	10	1.43E+01
1.36E-01	0.733404024	5	6.49E-02
3.86E-05	0.299206293	25	1.06E-01
1.77E+00	0.397794894	13	9.77E-02
1.49E+03	-0.476359618	15	9.18E+01
3.76E+00	-0.826637939	6	2.50E+01
2.69E-03	0.527754552	15	2.83E-02
1.77E-01	0.06965313	4	6.39E-01

1.95E-02	1	3	3.33E-02
6.06E-10	2	23	2.00E-08
3.89E-01	0.374624193	11	1.37E-01
4.22E-01	0	2	6.69E-01
3.17E+00	0.266151216	27	1.49E-01
1.05E+02	-0.498844523	6	6.79E+00
5.94E-01	0.45873409	2	2.48E-01
1.05E-03	0.61120232	16	1.19E-02
1.08E+00	0.15892484	10	5.20E-01
4.78E-03	1	5	1.40E-02
2.77E-11	2	22	1.20E-07
4.98E-02	0.274122293	15	2.18E-01
6.72E-02	-0.343036207	7	4.64E+00
3.98E-01	-0.015231735	3	7.57E-01
1.34E+05	-1	18	6.46E+04
2.07E+00	-0.501317242	1	1.45E+00
4.82E+01	-0.566445038	12	6.84E+01
3.60E-03	0.781593222	22	5.52E-04
1.02E+03	-0.248420244	13	9.90E+00
9.93E+02	-1	8	1.52E+02
9.49E+37	-3	46	2.84E+31
4.87E-01	-0.241639031	8	3.59E+00
3.75E-01	-0.190748154	11	4.67E+00
9.47E-28	1	138	4.61E-24
4.33E+02	-0.307434961	13	1.51E+01
3.96E-25	2	78	1.27E-22
8.47E+00	0.486175041	8	1.03E-01
1.41E+01	-0.529815312	7	1.06E+01
3.50E+00	-0.182921813	6	1.93E+00
4.56E-01	0	2	6.69E-01
1.94E-13	3	17	1.78E-11
3.86E-01	0.233464377	7	3.61E-01
6.37E+04	0.247634822	28	1.86E-01
3.70E+01	-0.407589562	13	3.09E+01
2.68E+11	-1	37	3.05E+09
2.07E+01	-0.681363766	7	2.08E+01
1.51E+05	-0.33536971	28	6.29E+02
1.58E+00	0.148721385	14	5.89E-01
2.43E+03	-0.628778209	11	7.18E+01
7.55E+01	-0.932032153	5	2.29E+01
8.43E-04	2	5	1.34E-04
4.70E-02	0.539828092	19	1.35E-02
2.16E-01	0.352905338	5	2.48E-01
3.29E+02	0.39773422	47	3.67E-03
5.53E-01	-0.276462867	5	2.28E+00
6.30E-01	0.114756012	5	5.74E-01
1.48E+00	-0.3515267	9	7.83E+00

5.95E+00	-0.121885463	7	1.74E+00
1.82E+00	-0.801830571	4	9.28E+00
3.16E+00	-0.230993836	10	4.97E+00
1.77E+02	-0.492600268	12	4.17E+01
5.13E-02	1	8	1.61E-03
4.10E-01	0.217299492	1	4.24E-01
1.16E+00	-0.253139432	3	1.41E+00
2.21E-01	0.518534529	10	6.49E-02
3.55E-01	0.031412703	7	8.84E-01
2.10E+01	0.032420175	10	1.08E+00
6.89E+01	-0.615249763	6	1.08E+01
2.07E+02	-0.375442888	7	5.36E+00
6.16E-01	-0.002731438	3	7.33E-01
7.51E+00	-0.187331741	4	1.41E+00
9.38E+00	0.352614435	15	1.16E-01
2.19E+00	0.55497793	7	8.70E-02
1.10E+00	0.30812198	6	2.75E-01
5.99E-01	0.194610015	6	4.31E-01
5.42E+04	-0.2813811	30	4.52E+02
6.71E+02	-0.547046105	13	8.36E+01
2.32E+03	-1	18	8.48E+05
5.76E+03	-2	8	3.01E+03
3.55E+00	-0.043787902	4	9.05E-01
5.56E+07	-1	21	3.66E+06
6.99E-04	1	11	3.17E-04
9.14E-02	0.181923374	9	4.55E-01
3.32E-02	0.118592884	12	6.98E-01
3.20E-01	-0.034451213	7	1.18E+00
4.38E-01	0	1	6.16E-01
3.76E+00	-0.279645196	4	1.87E+00
5.99E+01	-2	5	8.00E+02
2.32E+02	-0.553896779	8	1.65E+01
2.42E+01	0.154850703	6	5.05E-01
5.06E+00	-0.007476396	9	1.25E+00
2.62E+01	-0.165673257	16	8.82E+00
4.17E-01	-0.020905724	2	7.00E-01
1.33E+01	-0.549061808	5	5.95E+00
5.44E+01	-0.591075576	10	3.99E+01
7.23E-02	1	11	1.76E-03
1.72E+03	0.083279156	22	1.40E+00
3.14E-01	0.032496931	8	9.43E-01
3.43E-01	0.28725523	14	2.06E-01
5.87E-01	0.007158514	3	7.14E-01
1.08E+01	0.233967536	14	3.08E-01
7.41E-01	-0.007331834	6	9.62E-01
4.18E-01	-0.227360621	4	1.59E+00
3.88E-01	-0.132449443	6	1.58E+00

1.43E+01	-0.141791093	31	6.60E+01
8.39E-01	-0.27935225	7	3.50E+00
9.27E+00	-0.184257792	6	1.94E+00
5.10E+11	-1	54	8.16E+12
8.62E-01	0.095005762	11	7.84E-01
4.08E-05	1	17	5.48E-06
1.01E+00	-0.028130571	14	2.26E+00
7.74E-01	0.036120259	8	9.26E-01
6.65E-02	0.397872587	43	5.38E-03
2.70E+07	-1	16	5.96E+05
4.60E-01	-0.060402406	3	8.52E-01
1.43E+00	0.048485639	14	1.26E+00
7.19E-01	-0.172232115	6	1.85E+00
3.07E-01	0.080697735	7	7.11E-01
2.89E-01	-0.065130304	6	1.21E+00
3.87E-01	0.002346014	4	7.85E-01
2.65E-01	0.205717957	3	4.25E-01
4.18E-01	0.263092875	4	3.53E-01
5.04E-01	-0.295373831	3	1.58E+00
1.40E+00	-0.355177188	4	2.35E+00
4.21E+05	-1	10	3.31E+03
2.51E+05	-2	16	8.34E+05
4.18E+01	-1	4	7.89E+01
2.19E-01	0.658535036	4	1.05E-01
8.06E-01	0.035661128	4	7.09E-01
1.80E+03	-0.750210704	18	2.96E+03
6.25E+01	-1	8	4.11E+02
3.97E-01	-0.005951515	4	8.05E-01
3.50E-01	0	4	7.91E-01
5.08E-02	0.639876172	2	1.67E-01
2.83E-02	0.717921154	4	8.72E-02
1.40E+00	0.022723845	3	6.86E-01
6.58E-01	-0.037253597	7	1.20E+00
1.93E+00	0.228263912	7	3.70E-01
1.52E-01	1	5	1.51E-02
1.62E-01	0.166990075	11	5.01E-01
5.85E-03	1	15	5.34E-04
4.41E+01	-0.20912448	18	1.82E+01
2.25E+00	0.445884684	4	2.01E-01
5.39E+00	-0.440507167	7	7.15E+00
1.31E+00	-0.314549721	4	2.08E+00
1.29E+04	-0.274290476	16	2.22E+01
4.38E-01	-0.016399833	3	7.59E-01
4.10E-01	-0.064451478	5	1.08E+00
4.01E-06	2	9	4.99E-05
2.61E-01	-0.714212542	3	4.72E+00
5.57E+00	-0.246905043	17	2.14E+01

1.19E+00	-0.021901853	12	1.79E+00
4.59E+00	-0.881235038	9	1.32E+02
7.02E-01	-0.086368173	3	9.12E-01
3.19E+00	1	3	4.15E-02
5.87E+02	0.425600009	8	1.38E-01
1.06E-01	1	9	2.89E-03
6.35E-01	0.449295728	2	2.53E-01
1.91E-01	0.190788175	8	4.35E-01
2.42E-01	0	3	7.28E-01
1.41E-01	-0.047536882	12	2.12E+00
4.08E-01	-0.000708198	4	7.93E-01
8.61E-02	0.704825734	13	1.09E-02
4.08E-01	0.120323515	1	5.01E-01
1.26E+01	-0.240025804	13	9.32E+00
2.37E-01	0.293422392	14	1.96E-01
2.83E-01	-0.360633061	9	8.22E+00
4.87E-01	0.015059068	3	6.99E-01
1.10E-01	-0.488518684	4	3.55E+00
8.36E-07	2	14	5.36E-06
1.41E-01	-0.302544851	8	4.84E+00
1.98E+00	0.380839591	12	1.21E-01
2.39E-01	0.134070705	4	5.24E-01
1.22E-03	0.03402108	33	5.14E+00
1.22E+00	0.094668168	17	1.00E+00
8.90E-01	-0.387306141	6	4.36E+00
1.27E+00	0.554788923	23	5.95E-03
4.38E-01	-0.011227639	1	6.28E-01
5.29E-01	-0.057770262	2	7.58E-01
4.90E+02	-0.6913006	14	3.48E+02
4.28E-01	-0.009880123	9	1.27E+00
2.15E-01	0.566205151	9	5.86E-02
4.81E-01	0.007492919	1	6.08E-01
1.61E+02	-0.232079472	7	2.84E+00
1.14E+00	-0.071943535	4	9.86E-01
4.72E+00	0.000525569	5	8.58E-01
1.59E+04	-2	4	1.49E+02
4.38E-01	0	1	6.16E-01
6.93E-01	-0.313968938	3	1.66E+00
1.23E+00	0.469226383	12	6.67E-02
5.11E+00	-0.80011615	3	5.91E+00
1.02E+00	-0.059153276	1	6.81E-01
6.08E-01	-0.106451141	3	9.61E-01
1.27E+00	-0.840516424	2	4.13E+00
2.79E+00	-0.374379668	6	4.14E+00
1.54E+01	0.300407888	25	1.04E-01
1.51E+02	-1	7	3.63E+02
2.32E+00	-0.300398792	6	3.09E+00

3.47E+00	-0.252317824	6	2.55E+00
3.60E+00	0.122923822	38	1.40E+00
5.05E+00	-0.161721394	16	8.53E+00
5.05E+00	-0.741851744	4	7.72E+00
2.60E-01	-0.233947141	7	2.86E+00
4.37E-01	0.001041795	5	8.57E-01
3.98E+00	-0.274079563	6	2.78E+00
1.38E+00	-0.068734877	10	1.94E+00
1.88E+00	-0.560090022	4	4.42E+00
4.67E-01	-0.026590211	1	6.44E-01
1.04E+00	-0.186534518	3	1.19E+00
1.26E+01	-0.690669987	4	6.60E+00
4.38E-01	0	1	6.16E-01
8.14E-01	-0.038194693	5	9.84E-01
1.27E+02	-0.372452085	15	3.98E+01
4.82E-01	0.009077047	3	7.10E-01
3.95E-01	0.498497253	6	1.29E-01
3.86E-01	0.140176801	12	6.04E-01
4.84E+01	-0.276142382	35	1.19E+03
2.72E-01	0.040609827	13	1.25E+00
2.21E+03	-0.460581739	8	1.05E+01
1.20E+00	0.067261117	8	7.95E-01
1.74E-03	0.969482852	13	1.64E-03
4.29E-01	-0.00208238	2	6.72E-01
1.13E-03	2	4	2.47E-03
4.91E-01	0	2	6.69E-01
8.86E-01	0	4	7.91E-01
1.17E+00	-0.233885501	5	1.96E+00
7.68E+00	-0.749017224	4	7.89E+00
7.07E-01	0	4	7.91E-01
2.36E+00	-0.324620273	6	3.40E+00
4.38E-01	-0.014755132	1	6.31E-01
6.40E+02	-0.899140693	13	1.04E+03
1.05E+03	-1	9	6.01E+02
3.39E+01	-0.772151942	5	1.31E+01
6.39E+01	-0.41871596	10	1.47E+01
8.92E-01	-0.274533588	2	1.21E+00
7.04E+00	-0.335096548	5	2.80E+00
1.18E+01	-0.068447538	6	1.23E+00
8.86E+00	0.200651407	6	4.21E-01
2.55E+00	-0.454059585	5	4.26E+00
4.68E-01	-0.059479906	2	7.61E-01
6.31E-01	-0.393829549	4	2.65E+00
1.61E+02	-2	3	3.87E+01
8.84E+01	-1	5	1.26E+02
2.69E+00	-0.765279817	2	3.51E+00
9.42E+00	-0.717767867	6	1.62E+01

3.01E+00	-0.09087307	42	1.19E+02
1.67E+00	-1	4	2.57E+01
4.79E-01	-0.012299973	5	8.98E-01
1.51E+02	-0.753079648	11	1.56E+02
1.79E-13	0.701087282	57	3.79E-07
4.09E+01	-0.104562805	27	2.21E+01
4.08E+00	-0.35586268	14	2.72E+01
5.67E-01	-0.078811732	2	7.94E-01
3.03E+03	-0.833638297	11	2.58E+02
1.14E+00	-0.303112158	7	3.89E+00
4.62E+01	-0.479610969	7	8.50E+00
4.50E-01	0.535567244	6	1.11E-01
1.20E+01	-0.537801897	8	1.53E+01
9.60E+03	-0.596676412	10	4.13E+01
6.33E+01	-0.346517586	9	7.63E+00
2.77E+05	-2	11	2.20E+05
8.94E+00	-0.484314315	2	1.91E+00
4.47E-01	0	1	6.16E-01
4.20E-01	-0.017816269	15	2.29E+00
1.11E+02	-0.771150757	9	7.35E+01
1.95E-01	-0.215371111	10	4.54E+00
3.95E-02	-0.284553458	11	8.38E+00
2.67E-01	0.121509057	13	7.04E-01
1.36E+01	-0.845184438	8	6.84E+01
2.87E+00	0.658480186	7	5.50E-02
9.36E-01	-0.462156978	12	3.40E+01
8.57E+00	-0.8409494	3	6.58E+00
7.83E-01	-0.033953998	4	8.78E-01
7.53E-01	-0.291226459	4	1.93E+00
1.90E+00	-0.230026201	7	2.81E+00
1.42E+02	-0.432067811	8	9.11E+00
8.40E+00	-0.449254028	4	3.14E+00
4.62E-01	-0.139104992	5	1.40E+00
5.00E+01	-0.161004216	7	2.07E+00
7.10E+01	-0.613020305	7	1.54E+01
1.16E+00	0.009776522	8	1.05E+00
3.18E+00	-0.312206559	8	5.07E+00
3.38E+01	-0.558348537	17	3.48E+02
1.72E+00	-0.144952322	8	2.24E+00
2.24E+00	-0.616587049	9	3.22E+01
8.20E-01	-0.079559675	3	8.96E-01
1.68E+00	-0.094834549	3	9.33E-01
2.83E+00	-0.349528597	5	2.95E+00
3.68E-01	0	9	1.20E+00
3.68E-01	0	9	1.20E+00
3.81E-01	0	9	1.20E+00
1.86E+04	-0.464232462	8	1.07E+01

1.19E+00	-0.0091972	6	9.70E-01
2.13E+02	-0.142670428	17	8.41E+00
1.20E+00	-0.537089952	3	2.97E+00
4.61E+00	-0.59710739	3	3.47E+00
5.01E+00	0.151096017	3	4.90E-01
2.54E+00	-0.328552832	4	2.17E+00
3.03E+00	-0.195323031	3	1.21E+00
7.03E-01	-0.222299165	2	1.08E+00
2.08E+05	-0.663384869	13	1.92E+02
5.19E-01	-0.396386902	4	2.67E+00
5.48E-01	-0.027899812	3	7.83E-01
4.29E-01	0	2	6.69E-01
4.02E-01	0	5	8.60E-01
4.31E-01	-0.087068141	3	9.14E-01
4.93E-02	0.480636026	14	4.73E-02
8.67E+00	-0.314228933	8	5.12E+00
1.08E+00	-0.086877728	7	1.49E+00
2.06E-01	-0.008515343	7	1.06E+00
6.63E-01	-0.195003309	6	2.03E+00
2.94E+00	-0.200578016	4	1.46E+00
5.77E-01	0	3	7.28E-01
4.65E-01	-0.01408566	2	6.90E-01
3.25E-01	0	10	1.31E+00
4.82E-01	0.171605426	8	4.78E-01
3.72E-01	0.204616393	7	4.11E-01
5.32E-16	0.832062324	120	1.04E-16
4.08E-01	0.36899185	6	2.16E-01
4.29E-01	-0.013237368	3	7.53E-01
4.02E-01	0	5	8.60E-01
1.22E+00	0.087183954	12	8.61E-01
5.98E-02	0.241274297	43	1.38E-01
2.75E-07	0.617760232	39	1.24E-04
1.02E+04	-0.759913514	13	3.83E+02
5.09E+02	-0.281456246	14	1.55E+01
5.72E+03	-0.690019495	13	2.32E+02
5.23E-01	-0.006353382	4	8.06E-01
1.23E+00	-0.185713074	7	2.31E+00
5.98E-01	-0.217330235	2	1.07E+00
1.35E+01	-0.200678035	9	3.50E+00
2.51E+01	-0.376581811	15	4.11E+01
5.34E+00	-0.374194654	3	1.94E+00
6.39E+00	-0.330440978	18	5.71E+01
4.51E+03	-3	4	2.39E+03
4.43E-01	0.013943478	3	7.01E-01
4.60E+00	0.368008135	4	2.55E-01
2.68E-01	-0.021493479	4	8.45E-01
1.77E-01	0.19986858	10	4.11E-01

1.28E+00	0.404638891	25	2.81E-02
7.46E-06	2	11	5.26E-07
5.00E-05	0.626744053	33	3.47E-04
3.61E-01	0.107954289	7	6.30E-01
4.58E-02	2	5	2.48E-03
4.42E-01	0	1	6.16E-01
2.23E+00	-0.177073699	15	8.25E+00
1.97E+00	-0.195782862	3	1.21E+00
4.38E-01	0	1	6.16E-01
4.29E-01	0	2	6.69E-01
3.85E-01	0	7	1.02E+00
5.31E+00	-0.427984625	3	2.23E+00
9.48E-01	-0.056584816	5	1.05E+00
5.79E-01	-0.952957344	7	6.92E+01
8.91E-01	-0.074075881	4	9.93E-01
2.10E+00	0.20055706	3	4.30E-01
3.05E-02	-0.108748342	5	1.26E+00
1.48E-01	-0.000327431	1	6.16E-01
9.91E-02	0.417433094	13	8.49E-02
1.73E+00	0.593698929	11	3.49E-02
7.55E-01	0.021448209	18	2.08E+00
1.78E-01	0.329226459	7	2.36E-01
3.76E+00	0.051305263	30	3.24E+00
7.31E-01	-0.210537725	6	2.16E+00
9.83E-01	-0.109173696	11	2.80E+00
5.80E-01	-0.248990172	3	1.40E+00
1.48E-01	0	51	4.01E+01
9.95E-01	-0.131757278	8	2.10E+00
7.11E+00	-0.051027654	6	1.14E+00
6.65E+00	-0.212720832	6	2.18E+00
1.72E+00	-0.060066897	3	8.51E-01
2.77E-01	0.472150305	26	1.06E-02
2.51E-01	0.436177938	10	1.05E-01
2.14E+00	-0.015003901	14	2.04E+00
4.29E-01	0	2	6.69E-01
4.09E-01	0	2	6.69E-01
2.10E-02	0.598320013	8	5.95E-02
7.44E-02	1	1	5.85E-02
3.67E-02	1	5	9.37E-03
4.81E-01	0.941152465	5	3.12E-02
6.82E+00	-0.920667057	7	6.00E+01
3.28E+00	-0.234754091	7	2.87E+00
4.48E+02	-1	4	6.09E+01
1.65E+00	-0.568375791	6	8.96E+00
4.20E-01	-0.175148477	3	1.15E+00
4.45E-01	0	1	6.16E-01
6.03E-01	0	4	7.91E-01

4.71E-01	-0.011227639	1	6.28E-01
2.82E+01	-0.134248213	3	1.03E+00
1.84E+01	-1	4	3.38E+01
6.16E-01	-0.191174658	4	1.42E+00
3.33E+03	-1	13	2.35E+03
7.34E+00	-0.689668345	18	1.68E+03
8.05E-01	-0.211780369	4	1.52E+00
7.93E+01	-0.412361959	8	8.27E+00
1.20E+02	-1	4	2.02E+01
8.11E+02	-1	7	1.08E+02
2.17E+03	-0.555394495	12	6.35E+01
4.51E-01	-0.010446917	4	8.17E-01
4.47E+01	-0.166476034	10	3.42E+00
2.05E+03	-0.161999386	18	1.17E+01
3.38E+14	-1	36	7.67E+10
6.95E+03	-0.74432394	12	2.25E+02
5.88E+01	-0.789950278	8	5.22E+01
9.74E+02	-0.729376349	12	2.03E+02
1.95E+00	-0.229024687	10	4.91E+00
3.72E+00	-0.138738694	6	1.62E+00
1.45E+01	-0.007298972	4	8.09E-01
1.44E+00	0	2	6.69E-01
7.13E-01	0.315357551	4	3.00E-01
7.04E-01	-0.172517445	4	1.34E+00
8.77E-01	-0.331631015	2	1.37E+00
4.90E+06	-0.808366628	18	5.12E+03
2.55E+03	-0.630351805	10	5.01E+01
4.00E+00	-0.563355145	3	3.18E+00
5.62E+02	-2	7	1.85E+03
1.47E+03	-0.286445379	7	3.61E+00
3.39E+01	-1	4	2.79E+01
1.02E+00	-0.449582813	4	3.15E+00
3.66E+00	-0.616067522	6	1.08E+01
2.87E+00	-0.034204213	4	8.78E-01
1.80E+01	-0.702225363	7	2.28E+01
8.71E+00	-0.392745402	6	4.46E+00
4.68E-01	-0.035606251	1	6.54E-01
5.91E+00	-0.453538835	4	3.18E+00
1.66E+02	-0.306993303	16	2.93E+01
7.84E+01	-0.847603725	7	4.34E+01
5.19E+00	-0.603638266	7	1.47E+01
9.58E+08	-1	55	8.80E+13
8.59E+01	-0.352102361	6	3.79E+00
9.75E+00	-0.720321848	9	5.60E+01
1.22E+02	-0.961595909	14	2.72E+03
1.48E+01	-0.618570919	3	3.67E+00
5.29E+00	0.096856997	4	5.87E-01

3.03E+03	-1	9	8.82E+02
1.65E+02	-0.423704016	6	5.04E+00
5.61E+00	-0.470725334	4	3.36E+00
6.78E+03	-0.408603553	9	1.06E+01
1.19E+07	-0.93491202	21	7.71E+04
2.42E+03	-1	8	3.15E+02
4.38E-01	0	1	6.16E-01
2.35E+01	-0.463958115	6	5.91E+00
3.64E+00	-0.168621995	4	1.33E+00
2.43E+00	-0.304243639	4	2.01E+00
3.53E+01	-0.482406806	6	6.36E+00
2.22E+01	-0.071382702	5	1.11E+00
1.27E+03	-0.181675277	13	6.14E+00
1.09E+01	-0.830183676	5	1.60E+01
1.22E+02	-0.165621232	5	1.54E+00
7.68E+00	-0.513748018	7	9.89E+00
6.28E+00	0.264257082	3	3.64E-01
2.39E+01	-0.585804638	5	6.77E+00
9.58E+01	-0.642659145	10	5.38E+01
1.03E+01	-0.104157084	6	1.41E+00
4.40E+05	-1	12	2.68E+03
3.18E+02	-0.117435138	13	3.88E+00
2.56E+02	-0.297047599	11	9.06E+00
2.91E+00	-0.169843775	6	1.84E+00
4.25E+00	0.45442362	7	1.36E-01
1.09E+00	-0.08132949	4	1.02E+00
3.10E-01	-0.163502653	5	1.53E+00
5.25E+01	-0.9322	10	2.88E+02
1.74E+00	-0.519230703	3	2.83E+00
3.28E+01	-0.630517294	3	3.79E+00
5.41E-01	-0.858910342	3	6.89E+00
3.59E+01	-1	4	2.29E+01
4.57E+00	-0.423400999	12	2.62E+01
7.13E-01	-0.037783413	4	8.88E-01
5.20E-01	-0.259349212	9	4.79E+00
1.72E+00	-0.152830841	19	1.25E+01
8.53E-01	-0.263611836	8	4.00E+00
7.85E-01	-0.128419995	13	4.20E+00
4.15E-01	-0.007549898	4	8.09E-01
1.26E+01	0.025133608	11	1.21E+00
1.36E-01	-0.126306124	5	1.34E+00
3.97E-01	0.034164325	6	8.16E-01
2.39E-01	0.290207467	2	3.57E-01
1.15E+01	-1	9	4.50E+02
2.68E+00	-0.193337004	6	2.02E+00
4.76E-01	0.804187789	5	5.06E-02
2.18E-01	0.883898159	2	9.87E-02

3.09E-01	0.392629623	6	1.96E-01
4.04E-01	0.395990846	4	2.34E-01
1.80E+01	0.098198554	7	6.58E-01
3.38E+01	-0.174141765	16	9.48E+00
8.21E-01	0	4	7.91E-01
5.05E+00	-0.042091732	5	9.97E-01
3.44E+00	0.023795099	7	9.14E-01
1.03E+00	-0.041550354	14	2.50E+00
3.05E+01	-0.355551451	7	4.91E+00
5.76E-01	-0.005193374	6	9.54E-01
4.43E+03	-0.92798605	9	1.70E+02
7.85E+04	-2	7	1.56E+04
4.03E+02	-0.502295423	10	2.39E+01
1.18E+01	-0.713479521	2	3.14E+00
8.16E+03	-0.634967537	10	5.15E+01
1.63E+00	-0.667909858	3	4.18E+00
4.94E+00	-0.25663409	7	3.17E+00
4.62E-01	0	1	6.16E-01
1.56E+01	-0.227979125	6	2.31E+00
3.97E-01	-0.033735257	3	7.95E-01
4.18E+00	-0.286763789	6	2.92E+00
3.54E+02	-0.438713492	9	1.25E+01
6.93E-01	-0.016236078	2	6.93E-01
4.20E-01	-0.034287823	3	7.96E-01
7.45E-01	0	3	7.28E-01
6.65E-01	0	2	6.69E-01
7.38E-01	-0.034800141	1	6.53E-01
4.74E+02	-0.548246112	9	2.24E+01
9.05E+00	-0.56007842	3	3.15E+00
7.74E-01	0	2	6.69E-01
8.07E+00	-0.207693784	8	3.04E+00
6.77E+00	0.325842783	6	2.56E-01
4.12E-01	0.000635392	4	7.89E-01
1.58E+01	-0.198669283	11	4.90E+00
4.28E-01	0	1	6.16E-01
8.13E-01	-0.33078154	2	1.37E+00
3.03E+02	-0.675164533	7	2.02E+01
1.03E+00	-0.491500176	5	4.86E+00
3.92E-01	0	6	9.35E-01
1.21E-01	-0.00341905	5	8.70E-01
5.30E-01	-0.2188985	5	1.86E+00
3.57E+04	-2	9	1.04E+05
4.74E+01	-1	5	2.97E+01
1.71E+02	-0.2445927	13	9.63E+00
8.31E-01	-0.098548113	5	1.22E+00
4.60E-01	-0.029879791	1	6.48E-01
4.38E-01	0	1	6.16E-01

2.21E+03	-1	7	3.17E+02
8.96E+00	-0.152746847	7	2.00E+00
4.07E-01	-0.002992918	5	8.69E-01
1.76E-01	0	43	2.06E+01
1.76E-01	0	43	2.06E+01
4.52E-01	0.034954231	3	6.64E-01
4.57E-01	-0.022560802	2	7.03E-01
1.72E+00	-0.015101403	5	9.07E-01
1.54E+00	-0.424838939	3	2.21E+00
3.42E+00	-0.451122504	3	2.37E+00
4.74E-01	-0.001923487	42	1.97E+01
4.72E-01	-0.01866448	1	6.36E-01
3.79E+00	-0.252808854	5	2.10E+00
4.67E+02	0.089904439	6	6.54E-01
2.81E+04	-0.041927314	10	1.66E+00
9.55E-01	-0.256692741	2	1.17E+00
2.09E+01	-0.617889352	10	4.66E+01
4.28E-01	-0.023219945	3	7.73E-01
8.79E-01	-0.282440873	3	1.52E+00
4.48E-01	-0.064530538	8	1.51E+00
3.70E+02	-0.955359236	9	1.96E+02
3.91E+00	-0.546015687	3	3.04E+00
4.78E-01	-0.025390093	4	8.55E-01
5.26E-01	-0.010058513	4	8.16E-01
1.36E+00	-0.311850567	2	1.31E+00
2.09E-01	-0.135582804	7	1.85E+00
5.32E-01	-0.175085937	5	1.59E+00
7.71E+00	-1	3	1.50E+01
1.04E+03	-0.843460145	7	4.26E+01
1.16E+00	0	2	6.69E-01
5.12E-01	-0.085475303	1	7.13E-01
5.35E+02	-0.691173709	12	1.58E+02
9.88E+02	-0.566760692	20	1.04E+03
1.71E+00	0	3	7.28E-01
5.14E-01	-0.516409132	2	2.05E+00
4.89E+00	-0.862576949	6	2.89E+01
2.82E+00	-0.024191047	10	1.50E+00
6.82E-01	-0.312144795	2	1.32E+00
3.52E+00	-0.082203042	6	1.30E+00
2.60E+01	-0.209319575	10	4.38E+00
9.72E-01	0	12	1.54E+00
4.13E-01	0	2	6.69E-01
8.23E-01	-0.200373035	5	1.74E+00
1.32E+00	-0.104125426	3	9.56E-01
5.61E-01	0	4	7.91E-01
3.68E-01	-0.050049979	9	1.57E+00
3.90E+00	-0.384990263	7	5.59E+00

8.79E-01	-0.061143005	6	1.19E+00
1.26E+01	-0.560523827	5	6.20E+00
1.38E+00	-0.119296262	7	1.72E+00
2.71E+00	-0.02251608	7	1.12E+00
9.72E-01	-0.060871409	6	1.19E+00
1.99E+00	-0.207307571	5	1.78E+00
3.97E+01	-0.294917273	6	3.02E+00
2.38E+00	-0.196540501	3	1.22E+00
2.51E+02	-3	3	5.78E+02
3.37E-01	-0.00868804	4	8.12E-01
1.08E+02	-1	8	1.79E+02
5.77E-01	-0.145679781	1	7.90E-01
4.38E-01	0	1	6.16E-01
8.22E-01	-0.067954326	8	1.54E+00
1.19E-01	0.060159266	8	8.24E-01
3.12E-02	0.982119049	4	3.88E-02
4.62E-01	-0.028915149	3	7.85E-01
5.95E-01	-0.026035851	1	6.44E-01
6.16E-01	0.224708729	16	3.19E-01
7.58E-01	0.263867874	8	3.05E-01
2.50E-09	1	31	1.47E-07
2.15E+06	-0.891468654	32	1.03E+07
4.29E-01	0.154245	2	4.79E-01
3.00E-01	0.003076522	11	1.39E+00
6.76E-02	0.097391237	16	9.41E-01
4.30E-01	0.085787562	11	8.31E-01
1.32E+02	-0.397208595	29	1.94E+03
4.72E+00	0	15	1.98E+00
7.46E+04	-1	11	7.26E+03
1.08E-01	-0.074611347	9	1.79E+00
1.06E-02	0.653559211	10	2.97E-02
5.69E-05	3	4	1.90E-04
4.79E-05	3	8	3.69E-07
6.78E-10	3	12	2.30E-08
1.39E-04	2	6	7.62E-04
1.42E-01	1	5	1.33E-02
8.01E+00	-0.079472596	11	2.33E+00
2.52E+01	-0.274279285	6	2.78E+00
1.37E+01	0.171121549	6	4.73E-01
4.74E+01	-0.144336627	5	1.43E+00
6.27E-01	-0.007646294	3	7.42E-01
5.41E-01	0	5	8.60E-01
4.29E-01	0	2	6.69E-01
4.60E-01	0	2	6.69E-01
1.28E+01	0.03094808	8	9.50E-01
1.55E+00	-0.205075195	4	1.48E+00
5.63E-01	-0.005667776	3	7.38E-01

4.13E+00	0	2	6.69E-01
7.46E+00	-0.538983033	7	1.11E+01
2.88E+02	-2	6	1.37E+03
6.20E-01	-0.014854844	5	9.06E-01
1.91E+00	-0.162064984	10	3.34E+00
6.14E-01	-0.004723951	5	8.74E-01
6.42E-01	-0.188982041	5	1.67E+00
1.70E-01	-0.11085203	14	4.23E+00
4.37E-01	-0.005739304	1	6.22E-01
5.07E-01	-0.100516046	7	1.59E+00
5.62E+00	-0.378278431	8	7.00E+00
8.47E-01	-0.168320611	3	1.13E+00
9.76E+01	-0.883175637	6	3.13E+01
1.75E+02	-1	5	3.45E+01
5.51E+02	-0.811340975	14	8.68E+02
8.41E+00	-0.68630793	5	9.65E+00
1.50E+01	-0.036730613	7	1.20E+00
1.09E+00	-0.04567094	4	9.10E-01
2.50E+00	-0.078076468	6	1.27E+00
5.61E-01	-0.33000986	2	1.37E+00
5.45E-01	-0.034800141	1	6.53E-01
4.63E-01	0	1	6.16E-01
8.19E-01	0	3	7.28E-01
8.37E+00	-0.218978454	3	1.29E+00
3.64E+03	-1	8	2.10E+02
2.93E+00	-0.379783727	5	3.28E+00
8.31E+00	-0.660042937	4	6.00E+00
4.39E-01	-0.031571474	2	7.17E-01
4.53E-01	-0.019988462	1	6.37E-01
1.14E+01	-0.391107798	15	4.62E+01
9.63E+01	-0.757062986	7	2.91E+01
2.35E+01	-0.169690259	7	2.15E+00
6.26E+00	-0.415651402	5	3.72E+00
5.59E+00	-0.270029436	5	2.23E+00
6.18E+02	-0.72849309	15	6.99E+02
4.15E-01	0.495544629	11	6.44E-02
2.40E-01	0.324370866	30	5.63E-02
6.73E-01	0.088347554	7	6.87E-01
4.72E-02	0.153086113	21	6.29E-01
5.32E-01	0.103896552	11	7.42E-01
1.98E-01	-0.00508637	6	9.54E-01
6.31E-01	-1	4	2.19E+01
6.97E-01	-0.246273058	5	2.05E+00
1.44E+00	-0.018037415	2	6.96E-01
3.30E+00	0.171887979	21	5.14E-01
3.54E-01	-0.053742601	12	2.21E+00
5.61E+02	-1	8	5.30E+02

2.76E+01	-0.69823824	20	4.04E+03
4.57E-01	-0.004578886	3	7.36E-01
4.33E-01	-0.089916879	5	1.18E+00
7.26E-01	0	6	9.35E-01
4.46E+03	-0.404882829	19	1.50E+02
2.32E+06	-0.690762744	30	1.97E+05
8.91E+01	-0.375136741	12	1.90E+01
2.22E+03	-0.83528565	33	6.72E+06
1.21E-01	0.100286627	18	9.91E-01
7.68E-01	0.102884251	6	6.21E-01
5.79E-01	0	3	7.28E-01
2.08E+00	-0.192669643	5	1.70E+00
2.07E+01	-0.529573905	10	2.80E+01
2.35E+00	0.038193713	42	8.72E+00
7.30E+04	-1	12	3.37E+04
3.19E+01	-0.593368889	7	1.41E+01
4.51E+00	-0.00717983	8	1.14E+00
4.89E-01	0	5	8.60E-01
9.73E-01	0.224750674	2	4.11E-01
2.40E+00	-0.313811201	3	1.65E+00
1.35E+00	-0.22244907	5	1.88E+00
8.07E-01	-0.856375465	5	1.76E+01
8.03E-01	-0.101004226	5	1.23E+00
4.52E-01	-0.008403271	2	6.82E-01
3.44E+00	0.023580352	7	9.15E-01
2.63E+00	0.062689516	6	7.28E-01
4.44E-01	-0.008486153	2	6.82E-01
4.42E-01	0	2	6.69E-01
1.11E+00	-0.195229037	5	1.71E+00
3.76E+00	-0.83434161	2	4.08E+00
3.43E+00	-0.457613546	8	1.03E+01
2.24E+02	-0.323797494	6	3.39E+00
2.42E+00	-0.205702149	6	2.12E+00
4.90E-01	-0.126521792	3	1.01E+00
4.20E-01	-0.006828755	3	7.41E-01
4.06E+04	-0.446135977	24	9.40E+02
4.48E-01	-0.013262181	1	6.30E-01
8.07E-01	0	3	7.28E-01
2.71E+03	-0.606652181	7	1.49E+01
3.62E+03	-0.469593562	18	2.11E+02
2.87E+03	-0.628971795	7	1.65E+01
1.31E+02	-0.582923134	13	1.08E+02
8.57E-01	-0.266747116	5	2.20E+00
1.39E+01	-0.913135006	6	3.53E+01
4.38E+01	-2	2	5.62E+01
4.69E+00	-0.058936398	2	7.60E-01
3.69E-01	-0.00355324	2	6.74E-01

4.98E-01	0	5	8.60E-01
3.60E+00	-0.935619764	4	1.40E+01
2.16E+00	-0.295494362	6	3.03E+00
4.11E-01	-0.009909032	4	8.15E-01
8.53E-01	-0.050319012	4	9.23E-01
8.73E+00	-0.329323291	12	1.40E+01
1.21E+01	-0.404035024	11	1.77E+01
6.33E-01	-0.200924043	3	1.23E+00
3.06E-01	0.169316284	5	4.73E-01
5.85E-03	0.390826244	19	5.86E-02
2.20E-02	0.127331806	1	4.95E-01
7.26E-02	0.366719175	22	5.81E-02
8.48E-03	2	7	6.31E-05
4.35E-01	0.032029698	2	6.24E-01
4.29E-01	1	10	3.37E-03
4.17E-01	0.023791334	1	5.91E-01
1.99E-01	0.174254937	4	4.63E-01
3.90E-01	0.048431596	2	6.03E-01
4.29E-01	0	2	6.69E-01
1.52E+00	-0.105033269	10	2.40E+00
1.55E+00	-0.128254921	9	2.38E+00
1.04E+02	-0.813371225	6	2.37E+01
6.07E-01	-0.057731776	6	1.18E+00
1.10E+00	-0.058621917	3	8.48E-01
2.48E+01	-0.666931355	5	9.02E+00
1.90E+01	-0.343348614	6	3.66E+00
3.59E+01	-0.34089954	9	7.40E+00
6.15E+01	-0.560703019	7	1.22E+01
4.73E+00	-0.202667039	4	1.47E+00
4.74E-01	0	4	7.91E-01
3.09E-04	2	5	5.24E-04
1.38E-13	2	18	1.82E-08
8.37E-02	0.029841536	11	1.18E+00
4.34E-03	0.244329419	22	2.29E-01
4.33E-01	-0.045583849	2	7.39E-01
4.11E-01	-0.039744123	4	8.94E-01
3.35E-01	-0.165423716	9	2.90E+00
9.77E-01	-0.475767244	8	1.13E+01
4.09E-01	-0.100250672	1	7.31E-01
2.88E-01	-0.235809674	2	1.12E+00
5.21E+00	-0.616347704	3	3.65E+00
9.63E+01	-0.314398462	5	2.60E+00
1.13E-01	0.449039366	5	1.77E-01
2.15E-01	0.470409571	8	1.11E-01
3.47E+02	-0.212981131	9	3.74E+00
4.27E-01	-0.007451059	2	6.80E-01
6.46E-01	-0.336334505	3	1.75E+00

5.35E+00	-0.20414443	4	1.48E+00
1.43E-01	0.248860839	30	1.73E-01
8.16E+00	-0.087064936	6	1.32E+00
6.85E-01	-0.545547919	1	1.57E+00
6.99E-01	-0.015522672	2	6.92E-01
1.86E+01	-0.493128953	9	1.67E+01
6.85E-01	-0.381399083	2	1.53E+00
4.20E-01	0	3	7.28E-01
2.97E-01	0.160915595	13	5.31E-01
3.71E-01	0.029518368	5	7.75E-01
3.62E-01	0.017631819	7	9.40E-01
4.20E-01	0	3	7.28E-01
1.17E-01	0.024557242	18	2.02E+00
4.46E-01	0.024678045	9	1.05E+00
5.53E-01	0.407660398	9	1.36E-01
2.09E-01	0.119785563	18	8.25E-01
1.04E+00	-0.081141303	3	9.00E-01
1.65E+00	-0.29963359	1	1.03E+00
6.85E+07	-2	16	1.26E+06
2.31E+02	-0.504613029	16	1.57E+02
4.84E+01	-0.145345149	6	1.67E+00
3.63E+00	0.09571356	9	7.21E-01
5.35E+00	0.008271028	7	9.80E-01
1.71E+01	-0.573480227	8	1.82E+01
4.63E+01	-0.207315508	10	4.33E+00
2.88E+02	-0.805101239	10	1.38E+02
9.17E-01	0.139321702	6	5.37E-01
5.50E+00	-0.341472718	9	7.42E+00
1.43E+00	-0.454438451	4	3.19E+00
4.38E-01	-0.231775003	7	2.84E+00
4.31E-08	1	34	5.32E-08
6.28E-02	0.693017273	18	3.75E-03
1.29E+00	0.123148047	11	6.58E-01
9.00E-01	0.50062215	11	6.24E-02
6.87E-01	1	8	4.53E-03
9.39E+02	-0.065945785	11	2.14E+00
2.64E-03	1	12	5.25E-04
3.28E+00	1	8	1.50E-03
1.20E+00	-0.195894557	4	1.44E+00
1.04E+00	-0.288879739	2	1.25E+00
1.29E+00	-0.327288826	3	1.71E+00
1.90E+01	-0.747192078	9	6.47E+01
9.35E-01	-0.199385041	9	3.48E+00
9.14E-01	-0.164739393	7	2.11E+00
2.01E+01	-0.972785972	9	2.15E+02
2.33E+00	-0.30994486	4	2.05E+00
3.46E+00	-0.021116966	5	9.26E-01

6.97E+04	-1	15	2.39E+04
5.35E-01	-0.009702909	3	7.46E-01
1.85E+01	-0.980899121	9	2.25E+02
3.00E+00	0.729967673	12	1.17E-02
2.77E+00	0.549459153	7	8.91E-02
5.00E-03	0.980904144	9	6.41E-03
4.23E-03	0.523327131	14	3.42E-02
2.11E+00	-0.444904099	3	2.33E+00
3.90E-01	0.176035639	7	4.66E-01
2.70E-01	0.061544157	14	1.14E+00
1.62E-01	0.216287014	22	3.14E-01
4.04E+00	-0.070157357	12	2.47E+00
3.84E+02	-0.2429896	12	7.85E+00
4.51E-01	-0.002088695	5	8.66E-01
7.95E-01	0	2	6.69E-01
4.05E-01	-0.000364492	5	8.61E-01
3.62E-01	-0.151998852	12	4.27E+00
1.37E+02	-0.325021013	40	8.68E+03
1.75E-01	0.000230016	9	1.20E+00
1.12E+00	-0.012838843	5	9.00E-01
4.16E+03	-0.605167816	16	3.70E+02
4.13E-01	-0.267747897	4	1.80E+00
1.23E-02	0.855368804	26	7.16E-05
1.58E-01	-0.288465191	3	1.55E+00
9.17E+01	-1	6	5.65E+01
2.36E+03	-2	6	5.32E+02
6.11E+02	-0.604987377	9	3.03E+01
2.00E-01	-0.0034694	7	1.03E+00
4.71E-01	0	7	1.02E+00
4.39E-01	0.385356266	6	2.02E-01
1.42E+00	-0.108947199	2	8.47E-01
1.73E+00	-0.086646073	4	1.03E+00
3.40E+01	-0.250232351	12	8.24E+00
5.30E-01	-0.035583094	2	7.23E-01
2.00E+01	-0.898565384	7	5.44E+01
5.41E-01	-0.091204629	3	9.24E-01
6.36E-01	-0.001984513	6	9.42E-01
3.42E+01	-0.417893086	7	6.47E+00
1.01E+00	-0.313509466	4	2.07E+00
2.79E+02	-0.810787059	9	9.08E+01
1.00E+00	-0.202249717	7	2.49E+00
5.86E+00	0.219387325	5	3.97E-01
2.18E+00	-0.08669332	6	1.32E+00
4.29E-01	-0.001162759	4	7.94E-01
4.38E-01	-0.025392138	1	6.43E-01
1.79E+04	-0.583295787	27	1.41E+04
6.06E-01	-0.0503113	4	9.23E-01

4.29E-01	-0.082781439	2	8.01E-01
7.36E+01	-0.549104852	7	1.16E+01
4.95E-01	-0.093599961	3	9.30E-01
1.08E+00	0.326627873	3	3.09E-01
4.14E-01	-0.2655879	1	9.70E-01
1.50E+01	-0.447819694	3	2.35E+00
5.03E-01	0.278699446	5	3.22E-01
5.38E+00	-2	3	4.42E+01
1.54E+00	-0.06266109	4	9.59E-01
5.07E+00	-0.457302879	6	5.76E+00
5.64E-01	0	4	7.91E-01
1.41E+00	-0.582330309	4	4.73E+00
1.21E+00	-0.449026447	4	3.14E+00
6.20E-01	-0.023272722	2	7.04E-01
4.02E-01	0	5	8.60E-01
4.11E-01	0	4	7.91E-01
4.20E-01	0	3	7.28E-01
5.89E-01	-0.170517226	5	1.57E+00
4.81E-01	-0.000882402	9	1.21E+00
4.29E-01	0	2	6.69E-01
4.11E-01	0	4	7.91E-01
1.21E+01	-0.860508857	10	1.90E+02
9.54E-01	-0.678957204	1	1.97E+00
4.37E-01	-0.083028481	2	8.01E-01
5.51E+00	-0.587208113	9	2.75E+01
1.25E+00	-0.268996426	4	1.81E+00
4.59E+00	-1	9	8.09E+02
7.77E-01	-0.095110311	14	3.76E+00
4.29E-01	0.024720145	2	6.34E-01
3.61E-01	0.438328536	5	1.84E-01
1.45E-02	1	10	5.30E-04
4.04E+00	-0.209116033	5	1.80E+00
1.37E+02	-0.19856509	16	1.17E+01
9.63E+08	-1	28	4.85E+07
1.08E+03	-0.665323095	8	2.84E+01
4.81E+01	-0.654184845	7	1.84E+01
1.36E+00	0	1	6.16E-01
9.97E-01	0	5	8.60E-01
1.76E+01	-0.064659821	6	1.21E+00
2.10E+01	-0.787382799	5	1.38E+01
1.02E+02	-0.229731862	5	1.93E+00
2.27E+00	-0.488847403	3	2.62E+00
1.86E+01	0.442566258	10	1.01E-01
5.37E-03	2	14	6.32E-06
8.85E-03	2	4	9.94E-04
2.43E+00	0.04193856	5	7.42E-01
3.50E+02	-0.803876199	9	8.75E+01

1.08E+01	-0.411224571	6	4.80E+00
7.01E-01	-0.022213797	4	8.47E-01
9.95E+00	-0.246050576	4	1.68E+00
8.23E+00	-0.741880125	5	1.17E+01
6.93E+01	-0.933102451	8	1.05E+02
7.90E+02	-2	7	1.08E+03
3.24E+02	-0.060416516	8	1.48E+00
1.10E+00	-0.14124319	3	1.05E+00
5.19E+00	-0.431917851	9	1.20E+01
3.02E+03	-0.41148793	31	4.08E+03
7.07E+01	-0.550641016	5	5.98E+00
1.30E+01	-0.112083308	7	1.67E+00
4.29E-01	-0.062788067	13	2.63E+00
7.76E+00	-0.407537939	4	2.76E+00
1.52E+03	-0.829816237	7	4.01E+01
4.85E+01	-0.558970804	7	1.21E+01
4.60E-01	-0.070299263	4	9.81E-01
1.68E+00	-0.209167116	7	2.57E+00
1.89E+01	-0.644471517	6	1.21E+01
4.18E+04	-0.989479728	14	3.36E+03
9.74E-01	-0.067125133	5	1.09E+00
3.98E+00	-0.850382513	1	2.64E+00
3.86E+01	-0.204652686	12	6.07E+00
1.43E+01	-0.281377153	12	1.01E+01
1.60E+03	-0.284654336	16	2.43E+01
1.24E+12	-0.960604864	25	8.09E+05
1.26E+03	-0.479980536	14	7.00E+01
1.22E+01	-0.289335207	12	1.07E+01
2.38E+03	-0.553816356	17	3.34E+02
4.29E-01	0	2	6.69E-01
5.73E+00	-0.237178485	12	7.55E+00
1.86E-09	2	20	2.94E-08
1.07E-01	0.223308106	8	3.71E-01
3.81E+03	0.188803973	31	4.20E-01
1.77E+03	0.775353845	13	6.58E-03
3.23E+01	-0.195062967	5	1.71E+00
1.57E+00	-0.175048425	3	1.15E+00
8.73E-01	-0.00974957	4	8.15E-01
7.89E+00	-0.088708119	7	1.51E+00
1.06E+00	-0.093730449	5	1.20E+00
1.26E+00	-0.130731064	5	1.36E+00
6.85E-01	-0.032783518	6	1.06E+00
7.48E-01	0	5	8.60E-01
4.36E-01	0	3	7.28E-01
4.11E-01	0	4	7.91E-01
1.13E+00	-0.259883231	3	1.44E+00
1.68E-01	-0.02017022	2	6.99E-01

2.20E+00	-0.497407441	2	1.96E+00
1.09E+00	0	3	7.28E-01
1.97E+00	-0.230810138	3	1.33E+00
1.34E+00	-0.244660983	2	1.14E+00
1.64E+00	-0.072791797	2	7.83E-01
4.64E-01	-0.475747316	1	1.39E+00
6.85E-01	-0.01648115	1	6.33E-01
4.92E-01	0	6	9.35E-01
1.64E+00	-0.492955745	7	9.02E+00
4.82E+00	-0.340138045	5	2.85E+00
1.87E-01	0.215341705	14	3.55E-01
1.55E+00	-0.912058843	5	2.14E+01
3.07E+00	-0.019021502	35	1.46E+01
7.45E+00	-0.192305772	8	2.82E+00
3.15E-01	0.444293779	6	1.60E-01
4.82E-01	0.193867548	8	4.29E-01
2.86E-01	0	5	8.60E-01
2.16E-01	-0.028232637	5	9.50E-01
1.08E+00	-0.272075855	9	5.13E+00
7.90E-01	0.798641848	24	2.62E-04
4.48E-05	3	5	2.84E-05
3.47E-02	0.998840837	12	1.93E-03
4.38E-01	0.659473373	7	5.48E-02
3.62E-02	0.278608393	15	2.10E-01
1.31E-01	0.128042175	18	7.63E-01
1.19E+01	-0.188027507	12	5.43E+00
7.21E-03	2	8	4.12E-04
8.46E+02	0.292629152	38	6.09E-02
3.21E+01	0.548798944	4	1.47E-01
1.23E+01	-0.433822241	4	3.00E+00
3.20E-01	0.43697486	3	2.32E-01
2.47E-01	-0.200117694	2	1.03E+00
2.41E-01	0.426091117	3	2.38E-01
6.62E-01	-0.291990247	4	1.94E+00
1.73E+00	-0.177709862	4	1.36E+00
1.45E+01	-0.102464402	7	1.60E+00
4.48E+01	-0.703511441	6	1.53E+01
4.82E+02	-2	7	5.30E+03
4.22E-01	-0.033601836	3	7.94E-01
7.11E-01	0.019693317	5	8.02E-01
2.12E+01	0.280494725	8	2.81E-01
4.29E-01	0	2	6.69E-01
4.29E-01	0	2	6.69E-01
4.38E-01	0	1	6.16E-01
6.11E-01	0	2	6.69E-01
1.13E+04	-0.521412882	25	3.22E+03
1.11E+04	-0.271862437	19	4.04E+01

6.96E+02	-0.491076687	21	6.48E+02
4.23E-01	0	3	7.28E-01
5.13E+00	-0.393414656	9	9.79E+00
1.19E+04	-0.647600555	16	5.31E+02
2.53E+03	-0.841377437	9	1.07E+02
4.74E+00	-0.618817947	9	3.26E+01
5.57E+00	-0.521571187	6	7.44E+00
7.08E+00	-0.427475789	4	2.94E+00
3.72E+03	-0.495615645	17	1.98E+02
4.11E-01	0	3	7.28E-01
4.20E-01	0	3	7.28E-01
1.03E+02	-0.254931687	19	3.42E+01
1.29E+05	-0.920666045	12	7.32E+02
2.54E+00	0.391897083	6	1.97E-01
1.89E+01	-0.764055558	3	5.38E+00
6.31E-01	-0.009844657	3	7.47E-01
7.19E-01	0	1	6.16E-01
8.70E-01	-0.166409494	4	1.32E+00
4.25E-01	0	3	7.28E-01
7.26E+02	-0.363141858	9	8.33E+00
5.33E-01	-0.209435762	3	1.26E+00
1.15E+00	-0.060487984	11	2.07E+00
1.86E+01	-0.144859693	9	2.60E+00
3.46E+00	-0.414649715	6	4.86E+00
3.56E+02	-1	8	4.62E+02
4.66E-01	-0.000627928	2	6.70E-01
4.42E-01	-0.032702055	2	7.18E-01
4.29E-01	-0.048263757	2	7.43E-01
6.16E+01	-0.508098034	8	1.32E+01
8.99E-01	-0.120187934	2	8.68E-01
4.97E+00	-1	7	1.02E+02
1.22E+00	-0.725372247	4	7.34E+00
1.27E+00	-0.194292654	4	1.44E+00
1.07E+00	0.192606163	8	4.31E-01
1.29E+03	-0.358080472	11	1.33E+01
5.40E-01	-0.000266751	1	6.16E-01
3.30E+00	-0.09804917	5	1.21E+00
5.87E+02	-0.460647448	9	1.40E+01
1.00E+03	-1	9	2.56E+03
6.20E+00	-0.900504693	4	1.26E+01
2.69E+00	-0.013947985	2	6.90E-01
3.98E+01	-0.597425331	9	2.91E+01
6.53E+00	-1	3	2.84E+01
1.07E+05	-1	11	6.91E+03
9.79E+01	-0.82689232	8	6.26E+01
1.69E+03	-2	9	3.42E+04
2.72E+02	-0.991356392	8	1.40E+02

3.45E+01	-0.395133544	6	4.50E+00
3.58E+00	-1	4	1.72E+01
1.99E+00	-0.168593536	9	2.95E+00
7.49E-01	-0.06477235	3	8.62E-01
3.42E+00	-0.605307825	5	7.26E+00
8.03E+01	-0.740674997	10	9.49E+01
2.62E+00	-0.078676643	3	8.94E-01
3.72E+01	0.006444918	28	5.37E+00
6.80E-01	-0.00298005	5	8.69E-01
5.06E+00	-0.366454145	5	3.13E+00
4.51E-01	0	4	7.91E-01
3.08E+00	-0.568672294	10	3.51E+01
3.01E+01	-0.081620723	6	1.29E+00
6.51E-01	0	1	6.16E-01
3.45E-01	-0.084582663	3	9.08E-01
1.34E+02	-0.201692612	8	2.96E+00
2.44E+04	-0.753487106	18	3.06E+03
2.93E+01	-0.293376322	4	1.95E+00
2.53E+00	-0.450235529	7	7.46E+00
6.96E-01	0	5	8.60E-01
6.07E+00	-0.491978729	8	1.22E+01
4.37E-01	0.327728014	6	2.54E-01
2.37E+00	0.233712861	6	3.69E-01
3.45E+01	-0.427225496	7	6.74E+00
2.10E+00	-0.569432025	6	9.00E+00
2.19E+01	-0.839719758	10	1.68E+02
1.82E+00	-0.01615803	6	9.97E-01
4.92E-01	-0.021175342	3	7.69E-01
3.28E+00	-0.158591172	8	2.40E+00
2.53E+00	-0.396414802	7	5.88E+00
1.93E+00	-0.134302931	5	1.38E+00
3.88E-01	-0.062037395	7	1.34E+00
8.53E-01	-0.008243285	5	8.85E-01
4.97E-01	-0.014212341	3	7.55E-01
4.61E-01	-0.266314383	10	6.10E+00
7.13E-01	-0.18247104	4	1.39E+00
7.40E-01	-0.080410952	7	1.45E+00
2.42E+06	-0.809257859	21	1.99E+04
4.36E+00	-0.564728643	3	3.19E+00
9.21E-01	-0.105187665	3	9.58E-01
9.19E+03	-1	11	9.46E+02
2.70E+00	-0.790730502	8	5.24E+01
8.02E+00	-0.776157001	3	5.55E+00
1.01E+00	-0.254033757	8	3.82E+00
8.68E-01	-0.397526683	9	1.00E+01
1.57E+00	-0.245588367	6	2.48E+00
8.63E+00	-0.23244521	7	2.84E+00

1.11E+00	-0.088508534	3	9.17E-01
3.25E+02	-1	10	5.47E+02
1.65E+00	-0.376234049	5	3.24E+00
1.32E-05	0.869605124	22	2.06E-04
1.91E+01	0.123071658	12	6.77E-01
4.39E+00	0.125554948	7	5.83E-01
2.80E-21	1	74	4.99E-20
1.54E-02	1	2	4.50E-02
3.05E+00	0.235509894	15	2.98E-01
5.97E+00	-0.41168261	8	8.24E+00
8.26E-01	-0.047219425	9	1.54E+00
8.72E-01	-0.409701133	5	3.64E+00
4.34E-01	0	2	6.69E-01
1.33E+01	-0.391196211	4	2.63E+00
4.92E-01	-0.036294313	1	6.55E-01
8.38E-02	0.443732608	25	1.72E-02
2.55E+04	-1	10	2.68E+03
4.19E-01	-0.007805962	6	9.64E-01
4.82E-01	0.114814574	3	5.39E-01
4.46E-01	-0.051261027	1	6.72E-01
2.24E+01	-0.543470455	10	3.03E+01
3.92E-01	0.109553497	8	6.47E-01
1.48E+01	-0.415913298	10	1.45E+01
1.32E-01	-0.735453756	6	1.74E+01
2.48E+02	-1	8	2.81E+02
1.67E+01	-0.174302752	7	2.20E+00
6.95E+00	-0.178652578	7	2.24E+00
5.25E-01	0.062944582	10	9.07E-01
1.08E+01	-0.574482876	9	2.57E+01
1.34E+03	-0.661521117	15	4.08E+02
5.92E-19	1	69	3.09E-17
1.48E+00	0.082018033	19	1.23E+00
4.29E-01	-0.015279255	2	6.92E-01
1.32E-01	0.003992593	18	2.45E+00
1.04E+01	-0.107041647	30	3.40E+01
4.63E-01	0.010830515	1	6.04E-01
7.78E-01	0.169782652	2	4.63E-01
7.33E+00	-0.553771712	9	2.30E+01
1.65E+00	0	5	8.60E-01
7.62E+00	-0.219756713	7	2.69E+00
3.99E+02	-2	4	1.35E+02
2.46E+14	-0.643237688	70	3.15E+11
4.73E+04	-0.800972038	20	1.17E+04
8.25E+07	-0.797084541	32	2.32E+06
5.45E-01	-0.134430718	1	7.75E-01
1.53E+00	-0.890936351	5	1.99E+01
1.43E+00	-0.009989264	5	8.91E-01

9.38E+02	-0.739830066	15	7.66E+02
5.84E+00	-1	14	6.13E+03
1.65E+00	-0.051453197	8	1.42E+00
6.25E-01	-0.382093808	4	2.56E+00
4.35E-01	-0.001035188	7	1.02E+00
3.86E+00	-0.21363558	7	2.62E+00
1.78E+02	-0.020690661	11	1.61E+00
5.59E-01	-0.040419738	12	2.02E+00
8.10E-01	-0.05527321	15	3.09E+00
1.43E+00	-0.526908015	8	1.45E+01
6.44E-01	-0.125646959	4	1.16E+00
1.38E+01	-0.436837162	9	1.23E+01
4.01E-01	0.609283992	8	5.64E-02
1.12E-01	0.201818648	9	4.09E-01
1.31E-04	0.906662114	13	2.58E-03
3.08E-01	0.46263411	6	1.49E-01
4.84E-01	0.014593891	4	7.56E-01
2.40E-01	0.473572227	8	1.09E-01
4.70E-01	-0.013086151	6	9.85E-01
4.38E-01	-0.005739304	1	6.22E-01
2.47E-01	-0.070279869	8	1.56E+00
1.49E+01	-2	5	2.70E+02
2.65E+00	-0.406013848	4	2.75E+00
4.02E-02	0.500100063	4	1.70E-01
5.99E-02	0.260339466	10	2.89E-01
5.96E-02	0.166774907	7	4.85E-01
4.21E-01	-0.075017825	11	2.27E+00
2.37E-02	-0.126037941	16	6.29E+00
3.35E-01	0.018995134	31	5.64E+00
1.66E+02	-1	14	1.96E+04
5.14E-01	-0.361179999	2	1.46E+00
2.70E+07	-1	18	1.73E+06
6.62E+07	-0.740996364	30	4.15E+05
3.49E+04	-0.609006523	10	4.43E+01
5.84E+02	-0.125047774	14	4.72E+00
7.62E-09	2	17	1.17E-06
8.07E-03	0.74274392	35	3.20E-05
1.63E-01	1	14	8.07E-04
2.59E+00	0.045247972	30	3.54E+00
2.64E+01	-0.168064704	24	3.23E+01
2.62E-01	0.579673012	6	9.32E-02
2.43E+00	0.66232846	8	4.35E-02
2.84E-01	0.326484836	10	1.97E-01
2.10E+04	0.523783633	44	3.39E-04
1.94E+01	-0.584218609	7	1.35E+01
2.21E+00	-0.170180259	7	2.16E+00
9.27E+00	-0.404387053	7	6.09E+00

7.72E-12	1	32	2.62E-09
2.86E-02	0.701266862	6	5.75E-02
3.45E-01	0.151166693	19	6.23E-01
3.11E+00	0.18984949	15	4.30E-01
8.61E-01	-0.200467204	10	4.17E+00
4.46E-02	0.518657492	7	1.02E-01
3.77E-01	0.0273599	1	5.87E-01
2.83E+01	-0.61237333	6	1.07E+01
2.86E+00	0.744346134	4	8.04E-02
1.64E-03	0.658271338	46	1.28E-05
4.86E-01	-0.005029837	5	8.75E-01
1.67E+02	-0.588553166	11	5.59E+01
1.94E+00	-0.675687598	2	2.89E+00
6.16E+03	-2	8	1.27E+04
7.59E+02	-0.702896006	12	1.70E+02
8.19E-01	-0.251728629	5	2.09E+00
4.36E-01	0	3	7.28E-01
3.78E+00	-0.609234992	5	7.36E+00
1.20E+01	-0.953760961	7	6.94E+01
5.07E-01	-0.212205041	5	1.82E+00
1.87E+00	0.406941182	8	1.52E-01
7.94E+02	-1	5	4.33E+01
3.80E+00	-0.21199181	5	1.81E+00
1.70E-24	2	56	1.43E-21
5.92E-02	0.166208212	23	5.56E-01
1.40E+00	0.520149925	5	1.38E-01
3.56E+00	0.104815754	3	5.53E-01
1.43E+01	-0.246134625	13	9.74E+00
6.13E+11	-0.886627914	38	1.74E+08
7.95E-01	-0.203716237	3	1.24E+00
2.53E+02	-1	5	3.73E+01
4.34E+00	-0.616322494	4	5.25E+00
9.44E+02	-0.903205131	8	9.08E+01
2.14E+01	-0.566476478	4	4.50E+00
3.10E+04	-0.188892263	41	7.35E+02
9.94E+00	-0.371300123	8	6.77E+00
2.41E+01	-0.479266552	9	1.55E+01
8.17E-01	-0.370864492	6	4.08E+00
1.02E-04	3	5	1.26E-04
3.91E+00	0.48151465	10	8.04E-02
2.96E-01	0.213101246	4	4.11E-01
4.37E+05	-1	15	1.37E+04
8.03E-02	0.564573361	6	9.90E-02
2.92E+02	-0.645719413	4	5.74E+00
2.42E+03	-1	4	2.10E+01
1.71E+01	-0.788759409	7	3.34E+01
6.62E+00	-0.051843175	5	1.03E+00

5.43E-01	-0.492148988	8	1.22E+01
9.52E-01	-0.168387413	8	2.51E+00
4.33E-01	-0.21273447	4	1.52E+00
4.21E+01	-0.004309	11	1.46E+00
1.13E-01	0.767678171	11	1.18E-02
1.49E+01	-0.263172192	11	7.33E+00
1.10E+00	0.496949836	10	7.36E-02
6.19E-02	0.61348574	13	2.09E-02
7.96E-01	1	13	4.61E-04
3.04E+00	0.637959961	8	4.90E-02
2.00E+03	0.545326731	52	5.82E-05
6.78E+02	0.533474108	13	3.71E-02
3.52E+02	-0.90216376	4	1.26E+01
6.76E-01	-0.01286789	4	8.23E-01
2.72E+00	-0.20810588	9	3.64E+00
4.93E+07	-2	11	6.36E+05
3.35E+07	-2	11	1.86E+04
1.23E-01	0.298211638	6	2.86E-01
1.45E+01	-0.376267695	13	2.47E+01
3.08E+04	-0.554593807	12	6.32E+01
8.38E+00	-1	4	1.78E+01
1.89E+03	-0.758386323	13	3.79E+02
7.86E-01	-0.159933173	7	2.06E+00
3.43E+00	-0.300543252	3	1.60E+00
7.80E+00	-1	5	9.63E+01
1.59E+03	-1	11	1.68E+03
1.83E+00	0.589510559	3	1.55E-01
6.63E+01	-1	4	1.91E+01
1.65E+03	-3	4	2.92E+03
1.62E+08	-1	22	5.86E+07
4.58E+00	-0.113345629	2	8.55E-01
4.07E+00	-0.29930188	6	3.07E+00
5.71E-01	-0.028208894	4	8.62E-01
2.64E+08	-0.772507412	23	3.19E+04
3.30E+00	-0.785113854	6	2.12E+01
4.70E-03	1	5	2.46E-02
8.03E-19	2	45	7.24E-16
1.66E-02	1	11	8.37E-04
1.97E+03	-0.905932711	10	2.47E+02
5.86E+01	-0.854081288	4	1.09E+01
6.34E+02	-1	7	2.78E+02
5.50E-01	-0.172331022	14	6.75E+00
4.97E-01	0.025992806	2	6.33E-01
4.40E-01	0.011881888	2	6.52E-01
7.51E-01	-0.279318494	3	1.51E+00
5.27E-02	1	3	3.39E-02
6.62E-02	2	5	1.42E-03

1.28E-02	2	9	1.68E-04
5.19E+03	0.197485613	17	3.99E-01
3.29E-01	2	8	1.60E-04
6.88E+01	-2	4	3.18E+02
1.95E+03	-2	4	7.23E+02
1.49E+02	-0.901185967	4	1.26E+01
6.32E-01	-0.095176794	4	1.06E+00
2.62E-01	-0.180081055	8	2.66E+00
4.28E+01	-1	7	2.37E+02
9.14E+01	-2	5	2.09E+02
6.74E+00	-0.543534004	3	3.02E+00
1.51E+00	-0.900974622	2	4.71E+00
1.65E+03	-1	6	2.75E+02
1.36E+02	-0.425553707	6	5.08E+00
1.11E+03	-0.902058484	8	9.03E+01
7.74E-01	-0.245005105	3	1.38E+00
7.51E+00	0.002380151	14	1.79E+00
2.40E+03	-0.854165164	12	4.69E+02
5.20E+02	-2	5	3.28E+02
2.38E+00	-0.330133774	6	3.47E+00
7.49E-01	0.246543641	7	3.41E-01
1.04E-02	2	6	1.15E-03
7.42E-04	1	21	2.92E-05
1.65E-01	0.008863471	8	1.06E+00
3.83E+06	-0.25357836	41	2.65E+03
2.34E-01	-0.007220376	4	8.09E-01
1.98E+03	-0.80378043	6	2.28E+01
1.95E+03	-1	11	9.25E+02
7.56E-01	0.382262616	13	1.09E-01
1.17E-01	0.482221027	3	2.06E-01
7.88E-01	0.188995096	12	4.35E-01
8.66E-01	-0.474968058	3	2.52E+00
1.32E-01	0.819796361	10	1.14E-02
4.36E-01	0.040250154	4	6.99E-01
4.55E-02	1	7	4.00E-03
4.87E-03	0.465805764	9	1.00E-01
4.24E-02	0.909520012	17	6.79E-04
2.87E+00	0.523104391	6	1.17E-01
2.92E-01	1	4	1.23E-02
1.97E+00	0.374518661	20	6.32E-02
9.57E+01	-0.066427864	48	1.44E+02
1.61E+01	0.89576728	4	5.05E-02
1.42E-03	2	9	1.99E-04
5.74E-03	2	5	2.04E-03
2.89E+00	-0.432848818	7	6.91E+00
2.05E+01	-0.214113463	9	3.76E+00
2.62E+00	-0.654613519	3	4.04E+00

3.11E+07	-0.382296646	23	3.35E+02
1.08E+00	-0.62722765	3	3.76E+00
4.76E+05	-0.851149229	17	4.79E+03
5.08E+02	-0.158741944	16	8.31E+00
5.44E-01	0.226865417	3	4.02E-01
1.09E-01	1	4	2.33E-02
3.70E-14	2	28	2.46E-12
1.25E+00	0.127186412	1	4.95E-01
2.24E-04	2	4	9.28E-04
4.48E-05	2	6	1.05E-04
1.09E+00	0.210118176	6	4.05E-01
1.16E-03	1	13	3.29E-04
1.71E-01	0.19058249	3	4.42E-01
2.34E-16	3	21	3.55E-13
7.46E-05	2	7	1.03E-04
1.19E-03	3	3	5.91E-04
2.43E-04	2	6	2.61E-04
1.01E-02	0.737617282	13	8.62E-03
2.79E+01	0.118824559	25	1.03E+00
4.99E-01	0.090064858	1	5.28E-01
1.22E+01	-0.781546466	6	2.09E+01
4.99E-01	-0.051758417	2	7.49E-01
1.17E+03	-0.376969099	20	1.47E+02
1.61E-02	0.222631459	5	3.92E-01
1.83E-04	0.963957062	33	1.47E-06
3.71E-02	2	2	5.01E-03
8.18E+00	0.094505648	3	5.68E-01
3.59E+01	-0.391028895	7	5.74E+00
4.48E+01	-0.367398591	7	5.17E+00
1.16E+00	-0.118550919	3	9.92E-01
1.94E+01	-1	3	2.59E+01
6.99E-01	-0.225678141	2	1.09E+00
2.46E-01	0.312687465	11	2.02E-01
1.28E+00	-0.157096051	7	2.04E+00
1.84E+03	-0.664037485	9	4.15E+01
1.01E+01	0.707059797	2	1.45E-01
5.14E-01	-0.048826109	6	1.13E+00
4.18E+00	0.131245432	8	5.82E-01
1.02E+00	0	4	7.91E-01
9.90E+01	-0.110754947	10	2.48E+00
1.88E+01	-0.443519664	8	9.63E+00
2.99E+00	-0.200509391	7	2.47E+00
6.35E-01	-0.087213107	6	1.32E+00
4.70E-01	-0.010797418	1	6.27E-01
3.37E+00	-0.087109714	6	1.32E+00
2.63E+00	-0.120253672	3	9.97E-01
2.86E+00	-0.197503845	3	1.22E+00

6.14E+00	-0.53650319	5	5.69E+00
4.83E-01	-0.015496336	2	6.92E-01
4.11E-01	0	4	7.91E-01
7.22E-01	-0.048796687	4	9.19E-01
9.18E-01	-0.102495494	4	1.08E+00
5.05E-01	0	2	6.69E-01
1.84E+04	-0.448942852	20	3.09E+02
2.14E+01	0.037128847	4	7.06E-01
2.00E+01	-2	2	2.39E+01
8.89E-02	0.745855693	19	1.77E-03
2.00E+01	-0.77331658	3	5.51E+00
1.01E+01	-0.300567068	12	1.15E+01
1.39E+00	0.8431611	4	5.94E-02
8.28E-06	1	21	4.95E-07
7.42E-01	0.066015663	4	6.46E-01
1.87E+01	-0.33607247	4	2.22E+00
1.81E+01	-0.004457737	4	8.02E-01
6.46E-07	0.686614273	40	2.68E-05
3.09E+00	-0.614240381	4	5.22E+00
4.94E-03	1	11	4.20E-04
1.58E-01	0.054441828	13	1.14E+00
2.34E-02	2	5	4.10E-03
5.12E-01	0	2	6.69E-01
5.18E+00	0.15595036	14	5.57E-01
2.08E-01	0.414698646	8	1.46E-01
6.88E-01	-0.127024816	2	8.81E-01
4.88E-06	3	6	1.63E-06
1.36E+00	0.347862469	16	1.12E-01
6.75E-02	0.549087296	10	5.44E-02
8.15E-08	3	8	2.30E-06
3.85E-04	1	6	2.65E-03
3.97E-04	2	10	2.80E-05
2.81E-34	3	41	6.85E-29
2.74E-04	0.611762955	53	9.23E-06
7.46E+01	-0.759045637	8	4.49E+01
1.71E+00	0.377773186	4	2.48E-01
3.51E-01	-0.17458576	11	4.22E+00
1.13E+00	0.51272986	4	1.64E-01
2.98E+00	0.058864704	9	8.77E-01
2.69E+01	-0.361948614	6	3.94E+00
3.40E+01	-0.55295095	11	4.47E+01
3.80E+01	-0.139122587	8	2.18E+00
2.75E-01	0.624737747	41	7.27E-05
2.33E-01	0.476733953	9	9.44E-02
2.20E-01	2	5	2.24E-03
2.12E+00	0.227670935	3	4.01E-01
1.15E+00	0.500475248	7	1.11E-01

2.79E+01	0.051015369	9	9.15E-01
2.27E+00	0.653986106	6	6.94E-02
2.64E+00	0.610965643	16	1.19E-02
3.63E+01	-0.526927306	13	7.24E+01
8.62E-05	0.952636616	11	3.72E-03
1.67E-01	0.969063548	7	1.39E-02
2.16E-02	0.602762174	16	1.28E-02
4.48E-01	0.85261425	5	4.26E-02
8.55E-03	0.930080703	16	7.91E-04
1.00E-03	0.613147127	32	5.25E-04
4.51E-01	0.029241609	4	7.23E-01
2.55E+01	-1	4	2.99E+01
1.52E+00	-0.748232424	3	5.16E+00
9.02E+02	-0.737655946	6	1.76E+01
1.51E+01	-2	1	2.36E+01
2.93E+05	-2	9	8.05E+04
8.23E+01	-1	8	2.29E+02
2.67E+00	-0.289462547	6	2.95E+00
1.77E-01	0.557383715	8	7.27E-02
2.50E+01	-0.772838349	7	3.12E+01
3.72E+00	-0.32159759	5	2.67E+00
6.23E-02	0.189138253	7	4.40E-01
1.61E-02	0.851435172	12	5.17E-03
1.58E+00	0.427739004	5	1.90E-01
4.09E-01	-0.052183534	2	7.49E-01
1.01E+00	1	3	3.85E-02
3.42E+01	-0.284811828	7	3.59E+00
1.49E+01	-0.473619815	21	5.37E+02
1.16E+03	-1	8	2.92E+02
4.81E-01	-0.087945946	4	1.04E+00
9.16E+00	-0.577995155	9	2.62E+01
3.09E-14	2	32	6.35E-13
3.33E-02	1	7	4.00E-03
1.43E+01	0.742027553	15	5.04E-03
3.67E-02	0.864852625	11	6.43E-03
9.24E-02	0.910644637	7	1.80E-02
1.64E+06	-0.788860743	17	2.74E+03
1.78E+00	-1	2	7.94E+00
4.37E+00	-0.486439302	2	1.92E+00
2.01E+01	-0.395782793	7	5.86E+00
5.51E-01	0.751673099	4	7.86E-02
5.83E+00	0.067094386	10	8.85E-01
2.99E+07	-0.954687506	16	7.23E+03
7.45E+04	-1	19	8.93E+04
2.69E+03	0.034273408	11	1.15E+00
2.48E+00	0.084351913	15	1.01E+00
2.01E+00	0.207485978	4	4.18E-01

6.21E+00	0.622034253	3	1.43E-01
1.44E+00	-0.474076017	6	6.16E+00
4.93E-01	-0.874491586	1	2.75E+00
4.67E-01	-0.013356365	1	6.30E-01
1.85E+01	-0.715813332	5	1.07E+01
2.45E+02	-0.322219648	10	8.43E+00
3.02E+01	0.22676558	7	3.72E-01
5.27E-01	-0.049445119	2	7.45E-01
3.40E+00	-0.297158556	6	3.05E+00
1.69E+00	-0.356782813	5	3.02E+00
1.13E+00	-0.047950402	4	9.16E-01
5.64E+00	-0.372434551	7	5.29E+00
1.30E+01	-0.76972959	5	1.30E+01
4.38E-01	-0.034800141	1	6.53E-01
1.25E+04	-1	14	8.54E+03
1.93E+00	-0.61012802	4	5.15E+00
3.19E+01	-0.68523865	6	1.43E+01
5.39E-01	-0.142399743	3	1.06E+00
7.19E-01	0	1	6.16E-01
2.48E+00	-0.257603755	5	2.13E+00
1.00E+00	-0.559187318	4	4.40E+00
1.43E+00	-0.353741821	4	2.34E+00
4.65E+02	-0.754303796	13	3.68E+02
4.60E+01	-0.663445313	3	4.13E+00
1.97E+00	-0.117069685	4	1.13E+00
1.22E+01	-0.483214771	7	8.64E+00
5.91E+00	-0.33415779	5	2.79E+00
8.51E+00	0.273193608	8	2.91E-01
3.03E-01	0.900752098	6	2.60E-02
2.50E-01	0.930701728	11	4.26E-03
8.17E+00	0.462304395	12	6.99E-02
8.36E+00	0.809411937	9	1.60E-02
3.10E-01	0.563556694	2	1.98E-01
1.63E+02	-0.008871128	15	2.13E+00
6.67E+00	-0.471265849	5	4.52E+00
1.74E-01	0.745279106	6	4.83E-02
2.90E-01	0.732942152	17	3.30E-03
7.09E+00	0.196106391	8	4.24E-01
5.72E-01	0.394798539	7	1.77E-01
2.80E-01	0.343504635	8	2.07E-01
4.93E+00	-0.263353086	8	4.00E+00
1.05E+00	0.182436162	7	4.53E-01
2.62E+00	-0.68122207	6	1.40E+01
6.81E-02	0.405591526	31	1.52E-02
6.56E-02	0.288469678	5	3.11E-01
6.80E-02	2	8	5.65E-05
3.11E+00	1	5	9.05E-03

5.51E+02	-0.101471588	24	1.44E+01
2.83E+00	0.075058054	2	5.69E-01
6.77E-03	0.266534464	12	2.59E-01
1.86E-02	1	7	1.05E-02
1.24E-03	2	4	3.17E-03
1.17E-03	2	7	1.85E-04
1.05E+00	0.432728694	3	2.34E-01
3.38E+00	0.153172923	3	4.87E-01
2.35E-01	0.056035668	7	7.93E-01
4.09E-01	0.048124046	1	5.67E-01
3.91E+03	0.10785944	72	6.01E+00
3.55E+01	-0.763150455	10	1.08E+02
5.53E-01	-0.11906427	3	9.94E-01
5.89E+01	-0.272890536	13	1.18E+01
3.41E+00	0.680091562	4	9.80E-02
2.11E+00	2	5	1.96E-03
1.09E+02	-0.832848076	8	6.44E+01
4.64E-01	0.411656121	4	2.23E-01
7.99E-02	0.877221729	10	8.15E-03
2.20E-02	1	11	7.15E-04
3.37E-01	-0.76189732	5	1.26E+01
3.51E-01	-0.7914821	3	5.78E+00
3.74E-02	0.458567352	8	1.18E-01
4.75E-02	1	8	2.82E-03
1.72E-05	2	11	9.24E-05
1.44E-09	3	13	3.79E-09
2.60E-01	0.421864298	3	2.41E-01
8.15E-01	0.06378748	2	5.83E-01
1.14E+01	0.118259058	3	5.34E-01
5.17E-01	0	7	1.02E+00
2.75E+02	-0.23665818	23	6.13E+01
3.31E+02	-0.990793632	10	4.04E+02
1.18E+01	-0.525299495	5	5.47E+00
2.66E+00	-0.305016729	3	1.62E+00
1.28E+01	0.746813419	28	1.77E-04
8.82E-03	1	4	1.49E-02
2.48E-04	3	3	2.64E-04
2.83E-09	3	18	5.45E-11
5.83E+00	-0.048499695	5	1.02E+00
9.19E+04	-0.594618834	18	6.85E+02
3.63E+03	-0.518246595	8	1.39E+01
2.99E+01	-0.523785878	7	1.03E+01
1.41E+01	-0.359042853	4	2.38E+00
6.04E+00	-1	4	1.84E+01
4.82E+00	0.40639236	4	2.27E-01
5.08E+01	-0.351110392	6	3.78E+00
5.65E+00	0.52877862	5	1.33E-01

9.10E+01	0.124865331	10	6.34E-01
3.26E+02	-1	4	4.45E+01
4.57E+03	-0.615090032	10	4.59E+01
1.01E+09	-2	20	1.64E+07
1.18E+01	-0.961780611	4	1.52E+01
1.06E+00	0.901764557	2	9.50E-02
1.38E-08	2	20	2.08E-08
2.07E+01	0.513229977	24	8.33E-03
1.10E+01	-0.93726207	3	8.46E+00
1.15E+01	1	25	3.66E-06
6.59E-02	2	6	1.25E-03
3.74E-01	0.491530204	10	7.59E-02
1.40E+01	-0.837306686	11	2.64E+02
4.67E+01	-0.367081023	6	4.02E+00
1.31E+05	-1	13	8.07E+03
2.22E+02	-0.404017383	9	1.04E+01
2.31E-02	2	2	1.18E-02
1.70E+02	-0.410991747	16	7.10E+01
2.53E+01	-0.768046147	9	7.23E+01
6.15E-02	2	10	8.86E-05
6.76E-07	2	9	4.90E-06
4.40E-01	-0.120250327	2	8.68E-01
3.58E-01	-0.130732121	5	1.36E+00
3.07E-07	1	34	1.39E-07
3.18E+00	0.070555404	5	6.71E-01
4.39E+00	-0.200457173	4	1.46E+00
1.42E-09	2	28	1.88E-10
3.15E-03	0.362787519	25	4.76E-02
6.70E-02	-0.070287583	9	1.75E+00
4.15E+00	-0.442392813	3	2.32E+00
8.37E-01	0.433996292	15	6.02E-02
2.87E+00	-0.158780353	9	2.80E+00
3.54E+00	-0.873882635	5	1.87E+01
4.50E-01	0.535526316	14	3.12E-02
4.50E-01	-0.102008596	10	2.36E+00
1.66E+00	-0.103103903	24	1.47E+01
6.94E-01	0.620585046	2	1.75E-01
5.64E-03	2	6	8.64E-05
1.51E-02	2	3	2.45E-03
4.10E-28	3	37	2.05E-23
3.69E-04	3	2	5.75E-04
8.32E-01	0.70181869	4	9.17E-02
3.08E+00	0.623527389	11	2.90E-02
2.10E-04	2	8	6.03E-04
1.01E+01	-0.293613731	3	1.57E+00
4.61E-01	-0.737510859	3	5.02E+00
1.39E+00	-0.007105541	5	8.82E-01

5.31E+03	-1	8	6.24E+02
1.01E+00	-0.305530624	3	1.62E+00
2.00E+00	-0.5367856	1	1.54E+00
7.08E-01	-0.065665319	2	7.71E-01
5.74E+00	-0.399670852	7	5.97E+00
6.81E-01	-0.29963359	1	1.03E+00
1.61E-01	0.296439018	6	2.88E-01
1.28E+00	-0.22271158	4	1.57E+00
2.92E-03	3	2	2.92E-03
5.47E-03	2	1	3.22E-02
2.47E-03	1	4	1.10E-02
1.27E-02	0.612772739	5	9.92E-02
1.85E-01	0.621006852	7	6.49E-02
4.17E-02	0.432193927	8	1.34E-01
8.03E+06	-1	22	4.13E+05
4.32E-01	-0.125846965	2	8.79E-01
1.53E+02	-0.298995518	17	3.41E+01
7.76E+00	0	4	7.91E-01
4.77E-01	0	1	6.16E-01
1.07E+01	-0.23100363	8	3.41E+00
5.53E+01	-0.926192899	7	6.15E+01
2.86E+06	-1	14	4.78E+04
3.53E+00	-0.2215624	9	3.92E+00
5.07E+00	0.329809828	7	2.36E-01
1.38E-01	0.930820841	21	1.45E-04
1.76E+03	0.343438157	10	1.79E-01
1.27E+04	0.140910894	38	1.00E+00
2.00E+01	0.463201926	12	6.95E-02
5.06E-05	2	11	9.42E-05
2.48E-02	0.617482514	4	1.19E-01
7.77E+02	0.092478328	12	8.31E-01
1.09E-36	2	82	1.09E-34
3.34E-04	0.645508593	14	1.35E-02
1.87E+02	-0.804638786	13	5.27E+02
5.20E+00	-0.432045373	4	2.98E+00
7.71E-02	1	6	1.52E-02
1.42E-01	0.851782961	20	4.60E-04
2.17E+03	-2	7	2.46E+03
3.61E+04	-0.559944189	10	3.34E+01
1.38E+04	-1	11	9.51E+02
1.38E+00	0.447096067	7	1.40E-01
4.14E+00	0.311472051	3	3.22E-01
6.88E+06	-0.162190184	17	1.00E+01
2.55E+00	-0.505650641	4	3.74E+00
1.26E+00	-0.001404836	12	1.56E+00
4.38E-01	-0.027015095	1	6.45E-01
8.37E+00	-0.439578895	9	1.25E+01

5.98E+00	-0.600578049	10	4.22E+01
2.42E+03	-0.125827314	29	3.90E+01
2.60E+00	-0.242346558	3	1.37E+00
1.32E-01	0.541651493	3	1.76E-01
1.36E-01	0.781328427	3	9.41E-02
1.25E+00	0.922374601	9	8.76E-03
5.65E+00	0.144040871	8	5.47E-01
3.82E-01	0.165081522	11	5.07E-01
4.10E+00	-0.455245041	5	4.28E+00
2.15E+03	-0.958310717	10	3.35E+02
1.09E+01	0.223050258	6	3.85E-01
1.18E+01	-0.307456293	6	3.17E+00
1.88E+08	-1	15	1.81E+05
4.31E+00	0.496954052	16	3.15E-02
4.05E-04	1	21	3.70E-06
5.31E-01	3	9	1.28E-06
1.39E+00	-0.264552427	6	2.68E+00
9.35E+01	-0.593161252	7	1.41E+01
4.28E+00	-0.468623366	4	3.33E+00
2.24E+01	-1	4	1.93E+01
4.00E-01	-0.297332834	4	1.97E+00
9.60E+03	-1	9	9.85E+02
9.62E-01	-0.400000406	2	1.59E+00
1.03E+03	-0.458284208	7	7.74E+00
1.20E-04	1	16	7.78E-05
2.25E+00	-0.570657358	3	3.24E+00
7.66E+05	-0.739604987	13	3.31E+02
3.02E+00	0.189887072	7	4.38E-01
7.63E+00	0.501278897	8	9.56E-02
1.60E+00	-0.238462637	5	1.99E+00
1.15E+03	-0.560597825	12	6.57E+01
8.77E+01	0.181652303	16	4.60E-01
6.64E+00	0.227131871	9	3.57E-01
7.76E-02	0.391697326	3	2.61E-01
8.49E-03	0.943067677	21	1.27E-04
8.86E-03	0.841468825	18	9.27E-04
7.14E+00	0.752563183	7	3.63E-02
1.16E+00	-0.238612977	4	1.65E+00
6.58E+02	-0.737540796	17	1.73E+03
1.62E+05	-2	9	3.20E+05
1.39E+02	0.275426658	6	3.13E-01
3.80E-03	2	14	8.47E-06
1.53E+00	-0.428342381	4	2.95E+00
1.87E-02	0.859131599	5	4.17E-02
7.65E-02	1	2	3.10E-02
8.79E-01	0.249153753	5	3.57E-01
4.34E+00	-0.265814236	6	2.69E+00

1.36E-06	4	6	1.60E-07
1.79E-03	0.386092379	6	2.01E-01
2.28E+01	-0.449637864	9	1.32E+01
9.32E-01	-0.324816248	4	2.14E+00
5.55E-01	-0.245859731	12	8.00E+00
1.97E+00	-0.147356833	8	2.27E+00
5.80E+00	-0.739619962	6	1.77E+01
2.65E+02	-0.684735072	13	2.24E+02
3.54E+00	-0.113139562	6	1.47E+00
8.09E-01	0.798379406	14	4.23E-03
3.88E-03	0.860199614	13	3.59E-03
3.67E+00	-0.849685774	7	4.38E+01
3.19E+04	-0.383498295	37	1.25E+04
1.12E+05	-0.883035418	24	1.88E+05
6.81E-01	-0.158412896	4	1.29E+00
1.72E+00	-0.038688613	2	7.28E-01
5.64E+05	-2	8	2.62E+03
1.61E+04	-1	11	1.58E+03
1.56E+00	0.603387648	3	1.50E-01
4.55E-05	1	12	3.28E-04
2.64E-02	2	1	1.15E-02
9.78E-06	3	4	1.92E-05
2.39E-10	2	13	7.59E-08
1.25E-02	0.378690922	4	2.47E-01
7.39E-01	0.910416903	5	3.48E-02
3.82E-01	-0.002691044	1	6.18E-01
4.40E-03	0.336406744	126	6.38E-05
3.99E-04	0.991614133	26	1.21E-05
1.01E+01	1	10	2.25E-03
1.43E-01	0.856774828	13	3.68E-03
8.00E-01	-0.365694431	7	5.13E+00
1.07E+00	-0.211261067	6	2.17E+00
9.52E+00	-0.162477846	12	4.58E+00
8.30E+05	0.206462097	70	2.18E-01
1.74E+03	-0.014234443	16	2.43E+00
4.35E+00	0.685538006	19	3.21E-03
2.84E-04	2	8	2.93E-05
7.15E-07	3	9	1.88E-07
7.36E-04	3	5	1.06E-04
4.73E-01	0.337286501	3	3.01E-01
3.41E-01	-0.100560066	9	2.05E+00
1.89E+00	-0.282476027	9	5.42E+00
2.74E+01	-0.395784525	6	4.51E+00
5.02E-01	-0.029542722	3	7.86E-01
1.83E+02	-0.455482795	9	1.36E+01
2.23E+00	0.294761653	8	2.62E-01
5.57E-02	0.63578585	8	4.96E-02

8.48E-06	2	6	2.59E-04
4.79E-02	0.920657432	4	4.68E-02
7.21E-04	2	12	6.15E-05
9.02E-03	2	5	2.54E-03
9.96E-06	1	19	3.42E-06
9.58E+03	0.249057044	62	6.75E-02
4.67E+01	0.039856577	18	1.75E+00
7.05E+00	0.344482959	11	1.65E-01
1.43E-01	0.411134939	6	1.82E-01
4.40E-01	-0.0041665	2	6.75E-01
6.33E+02	-1	6	8.67E+01
8.21E+02	-0.80636793	12	3.41E+02
5.33E+04	-1	23	8.07E+05
1.20E+03	-0.733693459	8	3.97E+01
3.01E+00	0.467323655	19	2.76E-02
5.60E-01	-0.219927003	3	1.29E+00
4.98E-01	-0.008402488	5	8.86E-01
6.46E-01	0.019898531	3	6.91E-01
2.39E+00	-0.020895272	8	1.22E+00
2.39E+00	-0.370081589	4	2.46E+00
2.21E+03	-0.973689381	13	1.76E+03
5.31E+12	-1	38	6.22E+10
1.16E+16	-1	39	3.79E+11
4.17E+02	-0.683288579	11	1.01E+02
9.25E-08	1	30	5.59E-07
9.55E-02	0.45454879	10	9.40E-02
3.68E+01	-0.488391148	6	6.52E+00
4.00E-01	0.558310771	4	1.42E-01
1.51E-09	3	13	3.60E-09
2.86E+01	-0.713298697	7	2.39E+01
2.53E+01	-0.621581068	7	1.59E+01
2.76E+02	0.741282236	8	2.96E-02
4.52E+00	-0.176106314	2	9.80E-01
3.51E+00	-0.246836212	1	9.39E-01
2.71E-01	0.89744855	5	3.64E-02
3.50E-09	2	21	1.14E-08
6.40E-01	0.113059397	10	6.79E-01
2.13E-01	-0.04757162	6	1.13E+00
4.78E-01	-0.764441344	4	8.27E+00
7.93E-02	-0.48307932	21	5.94E+02
2.51E+00	0.126609776	4	5.36E-01
1.12E-01	0.316376846	9	2.22E-01
6.47E-01	-0.213712646	2	1.06E+00
7.28E-01	-0.025545421	2	7.07E-01
1.07E+01	-0.246544805	6	2.49E+00
2.58E+00	-0.344866192	3	1.79E+00
7.54E-01	-0.11805517	2	8.64E-01

7.42E-01	-0.489193176	1	1.42E+00
2.37E+00	-0.236990544	3	1.35E+00
5.04E-01	0.030402493	3	6.72E-01
8.29E-01	-0.359167665	5	3.05E+00
1.69E+02	-0.433332026	12	2.80E+01
1.10E+03	-0.482791132	11	2.89E+01
4.48E-03	0.526736938	42	4.35E-04
2.76E-01	0.565390076	2	1.97E-01
2.67E-01	0.310707337	3	3.23E-01
4.99E+00	0.339151215	6	2.43E-01
5.62E-01	0.008105877	4	7.71E-01
5.15E+01	0.036760671	26	3.08E+00
1.05E+04	-1	9	1.03E+03
6.60E+01	-0.080787308	21	7.81E+00
4.48E+00	-0.263868548	4	1.78E+00
6.58E-01	-0.203265993	8	2.98E+00
1.22E+02	0.012902523	11	1.31E+00
2.73E-13	3	17	2.83E-10
8.80E-08	1	34	1.04E-08
5.75E+00	1	15	2.48E-04
6.50E-04	3	3	7.73E-04
7.51E-16	3	24	3.10E-15
4.54E-01	0.45922633	6	1.51E-01
9.89E-01	-0.171036093	3	1.14E+00
6.79E+01	-1	5	3.22E+01
6.34E-01	-0.29765579	12	1.13E+01
1.12E+01	0.959385343	6	2.06E-02
1.02E-01	0.523821332	13	3.97E-02
1.05E+04	-0.67043953	17	9.50E+02
5.70E-04	0.591292541	10	4.26E-02
6.85E+01	0.261862844	9	2.97E-01
3.33E+00	0.883146594	17	8.60E-04
8.93E-03	0.87989791	16	1.21E-03
4.51E-01	1	4	1.64E-02
6.02E-01	0.103673082	10	7.16E-01
2.02E+03	-1	10	5.06E+02
2.68E-01	0.535912291	5	1.30E-01
6.17E-02	1	3	1.98E-02
2.93E+01	-0.389109683	11	1.61E+01
7.54E-01	-0.001802386	7	1.02E+00
1.47E+00	0.143160675	7	5.39E-01
1.18E-10	1	55	1.94E-10
1.24E-02	1	13	7.92E-04
7.26E-04	0.943403382	14	1.40E-03
4.50E-01	0.301748805	37	5.43E-02
6.33E+00	0.818824538	6	3.60E-02
1.17E-01	0.68633069	12	1.56E-02

2.83E+01	0.29710513	8	2.59E-01
2.07E+00	-0.250146287	8	3.75E+00
3.39E-01	0.076323581	5	6.57E-01
4.91E-04	1	34	3.56E-08
6.86E-02	1	5	1.19E-02
2.46E-24	2	64	1.08E-19
5.12E-04	0.071009479	10	8.66E-01
1.34E-06	0.899102979	30	1.11E-05
1.36E+05	-0.059155593	9	1.65E+00
2.95E-01	0.278426299	21	1.63E-01
6.00E+01	-0.583506524	14	1.54E+02
8.50E+00	-0.109797049	9	2.16E+00
4.91E-02	0.221110844	12	3.51E-01
1.87E+00	-0.010011464	5	8.91E-01
1.50E+00	-0.163539055	8	2.45E+00
1.52E+00	0.230481106	5	3.82E-01
1.60E+00	1	7	3.71E-03
5.39E+00	1	6	1.02E-02
5.58E+00	-0.153405806	6	1.72E+00
5.80E+02	-0.406123451	12	2.34E+01
1.51E+05	-0.927230829	25	5.31E+05
4.02E+02	-1	7	1.44E+02
2.24E-03	0.671047072	14	1.11E-02
1.50E+01	0.39827922	5	2.11E-01
2.08E+00	0.663630985	7	5.38E-02
5.08E-01	-0.037090573	1	6.56E-01
1.02E+00	0.022883202	6	8.53E-01
1.92E+06	-0.889733024	28	1.43E+06
4.97E+07	-2	16	1.55E+07
4.39E+00	-0.053480261	12	2.21E+00
2.17E+01	0.53961173	19	1.35E-02
5.78E-03	2	4	8.95E-04
7.86E-06	1	11	4.07E-04
1.97E+00	1	3	3.36E-02
2.55E-01	0.771121014	2	1.26E-01
1.29E+02	-0.132273525	10	2.81E+00
5.67E+05	-0.863767601	14	1.29E+03
9.63E+00	0.15908794	6	4.97E-01
1.93E+02	-0.531609057	14	1.04E+02
8.00E+02	-0.643023539	7	1.75E+01
3.98E-01	0.302382423	6	2.81E-01
6.56E+09	-1	26	1.38E+08
2.09E+00	0.074239423	8	7.69E-01
2.17E-01	0.89914043	13	2.72E-03
3.01E-05	1	17	1.45E-04
1.13E+03	-0.174652787	13	5.84E+00
4.38E-01	0	1	6.16E-01

9.34E+03	-0.643124804	15	3.52E+02
4.24E+03	-1	9	7.17E+02
2.30E+01	-0.462711121	7	7.89E+00
7.66E-02	1	13	5.46E-04
7.75E-04	3	3	3.65E-04
9.32E-01	1	7	2.12E-03
1.16E+05	-0.847601296	13	7.16E+02
3.61E+00	-0.026344543	11	1.67E+00
9.36E+01	-0.683739056	9	4.61E+01
2.17E+00	0.62314066	8	5.27E-02
2.77E-04	2	8	6.61E-05
4.71E-01	0.139204465	2	4.95E-01
1.48E+00	-0.348075085	4	2.30E+00
1.82E+00	-0.427828605	3	2.23E+00
9.98E+00	-0.637002098	4	5.59E+00
4.37E+01	-0.497123097	8	1.25E+01
1.70E+04	-1	5	9.34E+01
1.44E+04	-2	4	5.81E+02
4.30E+02	-0.720776705	8	3.73E+01
4.98E-01	-0.078344064	1	7.04E-01
4.75E+04	-0.640439645	20	2.23E+03
3.93E+03	-0.588436587	7	1.38E+01
2.33E+04	-1	14	4.27E+03
1.82E+01	-0.59454271	6	9.94E+00
6.35E+06	-1	19	1.07E+05
4.03E-01	0.172289117	2	4.61E-01
2.29E+00	1	4	1.73E-02
4.39E+00	0.666966399	13	1.43E-02
3.36E+00	-0.365884768	4	2.43E+00
1.27E+01	-0.893665825	9	1.41E+02
2.52E+01	-0.52631055	7	1.05E+01
1.30E+04	-0.475722802	17	1.66E+02
5.72E+04	-1	14	7.11E+04
2.52E+00	-0.367610434	6	4.03E+00
1.23E-01	0.997858182	15	6.43E-04
2.55E+01	0.562109492	16	1.81E-02
1.06E+01	0.423886725	5	1.93E-01
7.25E+00	-0.127861695	17	7.36E+00
1.40E+00	0.321193693	2	3.34E-01
1.11E+00	-0.395252582	4	2.66E+00
1.98E-09	3	13	9.07E-09
2.85E+01	-0.315285697	9	6.46E+00
9.45E+01	0.108892295	38	1.81E+00
1.78E-03	1	15	3.54E-05
1.07E-01	0.231851848	11	3.34E-01
7.64E-02	0.281502737	15	2.06E-01
2.36E-02	1	6	1.01E-02

4.58E+06	-1	22	4.35E+05
1.50E+02	-0.386106105	6	4.34E+00
1.18E-01	1	5	1.07E-02
1.55E-01	1	3	3.70E-02
6.71E-02	0.50780617	16	2.87E-02
2.47E+00	0.419737225	4	2.18E-01
4.25E+01	0.031502696	7	8.84E-01
4.05E+01	-0.458365709	6	5.78E+00
6.70E+00	1	7	1.15E-02
2.57E+01	-1	3	1.18E+01
1.66E+02	-0.721170126	10	8.48E+01
1.23E-02	1	8	8.20E-03
4.42E-05	2	5	2.94E-04
6.82E+04	-0.466296549	27	2.91E+03
1.80E+00	-0.092968183	7	1.53E+00
5.54E-01	-0.01035939	3	7.48E-01
1.89E+20	-0.567636475	54	1.12E+08
5.84E+00	-0.239138125	4	1.65E+00
3.59E+01	-1	6	2.91E+02
5.27E+01	-0.168557106	6	1.83E+00
9.47E-01	-0.056189519	2	7.56E-01
2.99E-01	-0.094914476	7	1.55E+00
3.14E-02	0.363727539	35	2.09E-02
1.71E-01	0.390587111	2	2.87E-01
6.33E-02	0.24269665	10	3.20E-01
1.22E+00	-0.176420505	5	1.60E+00
1.54E+00	-0.072285636	4	9.87E-01
5.25E-01	0.151637643	4	4.96E-01
2.37E-02	1	4	2.55E-02
6.78E-05	2	6	5.14E-05
9.16E-01	0	5	8.60E-01
1.64E+04	-0.217798219	32	2.53E+02
3.22E+02	-0.613169095	16	3.96E+02
7.18E-01	-0.182766292	3	1.17E+00
1.15E+00	-0.196620827	2	1.02E+00
6.93E+08	-2	18	4.70E+06
7.61E+01	-0.081603517	4	1.02E+00
2.16E+05	-1	11	9.55E+03
7.55E+00	-0.398294595	8	7.72E+00
8.21E-01	-0.247650852	5	2.06E+00
2.42E+00	0.227538472	14	3.24E-01
1.20E+03	-0.557367778	8	1.68E+01
3.67E+07	-2	13	5.59E+05
1.62E+04	-1	12	1.33E+03
5.75E-01	0.443752985	4	2.02E-01
1.56E-01	1	5	1.84E-02
9.18E+00	-0.170610331	4	1.34E+00

5.34E-01	-0.027758282	2	7.11E-01
4.26E-01	0.408659565	3	2.50E-01
5.02E+05	-1	9	9.16E+02
4.99E+07	-1	15	2.18E+04
1.48E+04	-0.72361948	12	1.96E+02
6.38E+02	-0.016235506	18	2.97E+00
2.26E-13	2	30	4.91E-12
3.18E+02	-0.228761869	11	5.92E+00
2.95E+02	0.160877434	44	7.40E-01
9.04E+00	0.076282568	9	7.99E-01
2.80E+00	-0.106979273	7	1.63E+00
7.63E-02	0.361328892	10	1.61E-01
9.58E+01	-0.197101083	4	1.45E+00
3.23E-04	1	8	1.63E-03
7.95E-04	1	9	3.10E-03
1.02E-24	2	71	6.54E-21
3.81E+05	-0.719012979	19	3.33E+03
1.13E+02	-0.413126653	6	4.83E+00
2.76E+00	-0.184002729	11	4.47E+00
2.48E-01	0.644208265	11	2.55E-02
4.55E-10	2	32	2.69E-10
3.13E-05	2	9	1.33E-05
7.42E+11	-1	31	3.65E+08
3.45E+01	-0.228432772	4	1.60E+00
3.15E+01	-0.236041017	7	2.89E+00
1.37E+03	0.04930357	16	1.42E+00
2.43E-01	0.461357242	2	2.46E-01
3.42E+02	0.137661658	19	7.12E-01
2.53E-02	0.486973144	18	2.61E-02
4.24E+02	0.632892981	14	1.49E-02
6.15E+00	0.026330272	4	7.29E-01
7.51E-02	1	6	1.27E-02
2.50E-06	1	20	3.80E-06
3.23E+50	-1	111	5.22E+34
5.53E+01	0.005831193	5	8.42E-01
4.75E-01	0.931395715	3	6.35E-02
1.66E-01	0.565740094	4	1.39E-01
1.90E-01	1	6	1.27E-02
2.59E+00	-0.541481728	4	4.17E+00
3.97E+02	-1	10	7.03E+02
1.49E+03	-1	7	1.41E+02
1.13E+01	-0.358041666	14	2.77E+01
6.75E+00	0.296918624	6	2.87E-01
1.73E-01	0.314768379	24	9.25E-02
9.20E-01	-0.239288923	8	3.55E+00
1.69E+01	-0.235204428	8	3.48E+00
9.50E-01	-0.218153129	5	1.85E+00

5.74E-03	0.706721427	36	4.67E-05
3.95E+00	-0.988657761	3	9.68E+00
6.11E+01	-2	6	1.04E+03
9.99E-01	-0.1843072	7	2.30E+00
3.59E+02	-0.799447541	7	3.51E+01
3.91E+01	-0.35887021	7	4.98E+00
5.30E-01	-0.257146903	2	1.17E+00
1.91E+08	-1	15	2.42E+05
4.77E-04	1	11	4.53E-04
1.15E+03	0.103197363	18	9.64E-01
1.39E+01	-0.269724556	5	2.22E+00
3.41E+01	-0.321349833	6	3.35E+00
1.88E-01	-0.015480574	9	1.30E+00
7.89E+00	-0.420026517	6	4.97E+00
4.65E+00	-0.160307126	5	1.51E+00
8.09E-02	0.403480642	6	1.88E-01
7.79E-02	0.838238929	6	3.34E-02
2.90E-02	0.740041411	13	8.47E-03
2.02E+00	0.999352263	10	4.02E-03
9.31E-01	1	11	2.22E-03
2.51E-01	0.462208948	10	9.00E-02
2.53E+02	0.714780229	18	3.05E-03
1.86E-02	2	7	7.64E-04
4.48E-01	1	2	6.57E-02
3.96E-01	0.362308516	7	2.04E-01
3.32E-26	2	44	5.92E-18
1.62E-05	1	16	2.02E-04
1.86E+00	-0.218786245	10	4.63E+00
3.35E-01	1	3	3.06E-02
5.12E-14	1	50	1.62E-14
3.38E+03	-1	12	2.95E+03
2.35E+00	-0.37608707	4	2.51E+00
2.01E+03	-0.543798482	8	1.57E+01
1.35E+00	-0.302516192	5	2.50E+00
5.58E-01	1	8	7.32E-03
6.56E-30	2	60	1.03E-28
4.32E+00	-0.203612559	15	1.02E+01
1.96E+08	-1	18	1.91E+05
4.87E+01	0.286199892	9	2.61E-01
2.10E-02	0.359883237	10	1.63E-01
2.85E-03	2	8	2.05E-04
1.37E-03	0.890244059	16	1.11E-03
1.55E+02	-0.190107623	16	1.09E+01
1.11E-01	0.396845362	7	1.75E-01
9.86E+00	0.056291281	11	9.99E-01
4.06E+01	0.733449215	6	5.06E-02
3.76E+00	0.575031455	5	1.13E-01

2.20E-01	-0.253959146	8	3.82E+00
4.82E+00	0.481055234	24	1.23E-02
4.68E-01	0.482826705	9	9.14E-02
2.01E-01	-0.199580119	6	2.07E+00
7.49E+02	-1	11	1.38E+03
6.40E-06	2	8	1.27E-05
1.57E-01	0.785372148	19	1.20E-03
1.41E-01	0.2984868	4	3.16E-01
2.97E-03	0.184359827	23	4.49E-01
1.22E-02	0.579765933	3	1.59E-01
1.16E+03	-0.776597909	13	4.31E+02
1.15E+01	0.513701275	23	9.62E-03
2.56E+05	-0.616289423	19	1.21E+03
2.40E+04	-2	10	1.13E+04
1.51E+00	-0.121992788	6	1.52E+00
6.00E-01	1	4	3.17E-02
6.25E+01	-0.312939046	5	2.59E+00
2.28E+03	-1	11	6.79E+03
1.10E+08	-0.28572974	46	1.45E+04
1.12E+04	-0.222981929	23	5.22E+01
2.22E-09	2	16	3.55E-08
1.23E-01	1	6	1.39E-02
6.51E-02	1	19	9.65E-06
8.88E+01	0.842010027	14	3.04E-03
3.19E-03	2	4	2.63E-03
7.59E-03	1	12	1.62E-03
3.04E-01	-0.147213867	11	3.56E+00
5.07E+01	-0.368108848	6	4.04E+00
2.15E+00	-0.224681004	2	1.09E+00
1.73E+00	-1	4	2.48E+01
8.75E+01	0.225621398	12	3.41E-01
2.27E+04	-0.388392021	32	3.72E+03
1.49E+00	-0.240674471	5	2.01E+00
4.52E-01	-0.273027017	1	9.83E-01
1.40E+00	0.161972181	8	5.01E-01
3.43E-01	0.108604144	1	5.11E-01
2.65E-01	0.264963093	7	3.14E-01
5.63E+02	-0.979654898	11	6.41E+02
9.65E-01	-0.346060671	2	1.42E+00
3.03E+01	0.053198045	13	1.15E+00
7.05E-04	1	10	4.59E-04
7.60E+00	-0.57338404	14	1.42E+02
4.68E-01	-0.007310234	2	6.80E-01
2.05E+06	-1	33	1.33E+09
2.77E+00	-0.36837518	6	4.04E+00
4.64E-01	-0.018552143	2	6.97E-01
5.15E-01	-0.004682166	3	7.36E-01

3.99E-01	-0.019553189	4	8.40E-01
4.78E-01	0.371266804	2	3.00E-01
2.45E-07	1	21	4.70E-06
1.39E+00	0.530726503	13	3.78E-02
8.70E-01	-0.190867349	4	1.42E+00
2.66E+05	-1	15	3.77E+04
1.27E+01	-0.412631917	14	4.19E+01
9.64E+04	-0.895243103	16	4.36E+03
1.91E+03	-1	9	1.09E+03
8.50E+02	-1	10	1.48E+03
3.46E+02	-2	7	8.50E+02
4.90E+02	-2	7	1.37E+04
2.35E+00	0.744030585	6	4.85E-02
2.14E+03	-1	15	3.37E+04
3.57E+00	-0.426124313	6	5.09E+00
2.90E+07	-1	18	5.47E+04
3.32E+06	-0.869201335	19	1.46E+04
3.45E-01	1	4	1.63E-02
2.09E-03	3	5	6.40E-05
4.54E-02	1	5	1.69E-02
5.17E-02	0.921199016	7	1.72E-02
5.30E-01	0.453294368	12	7.43E-02
5.55E-01	0	2	6.69E-01
8.46E-03	0.892297967	36	1.80E-06
3.46E+00	1	10	1.02E-03
6.88E-04	0.667473038	20	3.08E-03
2.39E-02	1	6	1.23E-02
1.60E+01	-0.284958275	15	1.97E+01
1.17E+02	-0.188833446	10	3.89E+00
9.02E-06	2	11	3.87E-06
2.01E-13	3	19	8.89E-12
3.30E-01	-0.192840435	4	1.43E+00
1.41E+01	-0.340360429	8	5.82E+00
4.88E+00	0.300747942	20	1.35E-01
6.18E-01	-0.134430718	1	7.75E-01
3.37E+00	0.079171841	6	6.82E-01
4.39E-01	-0.417643118	3	2.17E+00
6.50E+00	-0.822996297	4	9.90E+00
5.57E+05	-1	11	9.62E+03
4.48E-01	-0.000724027	2	6.70E-01
3.42E+00	-0.126215059	3	1.01E+00
8.55E+00	-0.191399442	13	6.59E+00
1.63E+01	-0.480575807	4	3.46E+00
8.84E+00	-0.905957393	6	3.43E+01
1.49E+02	-0.498853767	15	1.10E+02
5.53E+03	0.191093512	5	4.39E-01
1.81E+10	0.627807637	8	5.15E-02

1.69E+00	0.606683556	22	3.93E-03
5.76E+02	-0.10751841	10	2.43E+00
2.19E+01	-0.004600632	9	1.23E+00
2.91E+01	-0.158703112	8	2.40E+00
9.56E+04	0.313190578	18	1.34E-01
1.29E-01	0.264721153	3	3.64E-01
4.31E-01	0.471802711	7	1.26E-01
1.48E+01	0.090290451	8	7.11E-01
9.08E+01	-0.434193586	7	6.95E+00
4.64E-01	0.034657914	4	7.11E-01
4.67E-01	-0.042641245	2	7.34E-01
6.45E-08	2	26	1.08E-08
7.01E-01	0.785916533	6	4.11E-02
1.09E+00	1	4	2.01E-02
1.13E-01	1	11	4.04E-04
1.73E+00	-0.154558357	4	1.27E+00
4.34E+03	-2	11	3.98E+04
1.30E+07	-0.999028199	17	1.80E+04
8.77E+01	-0.900239493	9	1.46E+02
4.55E+00	1	6	1.09E-02
5.99E-01	0.302991017	3	3.29E-01
9.16E+00	0.378090382	9	1.60E-01
1.99E-03	0.637978042	47	1.63E-05
4.98E-02	1	4	1.71E-02
5.11E+02	-0.785154975	11	1.91E+02
4.17E+00	0.27674831	9	2.74E-01
1.63E+00	0.297204906	6	2.87E-01
1.49E+06	-1	17	4.49E+05
2.33E+01	-0.188093409	8	2.77E+00
7.41E-01	-0.087573888	3	9.15E-01
3.99E+07	-1	20	1.60E+06
1.87E+01	-0.647322969	4	5.77E+00
3.02E+06	-2	12	3.91E+04
5.13E+04	-0.991437496	13	2.00E+03
7.66E-02	0.661363665	6	6.74E-02
2.46E+00	0.187139276	22	4.36E-01
6.56E-04	2	8	7.09E-04
6.83E-02	0.21931692	6	3.91E-01
5.81E-01	-0.422646029	8	8.70E+00
7.21E-01	-0.22066438	1	8.98E-01
4.00E-01	0.671838729	6	6.46E-02
1.12E-05	2	8	3.20E-05
4.12E-04	2	9	1.10E-04
2.56E-01	-0.120169534	9	2.28E+00
6.18E+02	-0.519400305	17	2.46E+02
6.84E-01	0.198364125	9	4.17E-01
7.34E-04	2	6	7.32E-05

3.47E-05	3	7	4.41E-06
5.90E-01	-0.224786707	6	2.28E+00
1.87E+01	-0.520015513	7	1.02E+01
3.67E+02	-0.473922526	13	4.96E+01
8.75E-01	0.073211664	2	5.71E-01
3.27E+00	0.696061239	12	1.46E-02
7.72E-02	0.53382236	4	1.54E-01
1.14E+01	0.890315109	14	2.10E-03
7.32E-02	2	6	1.90E-03
2.34E+02	-1	8	2.62E+02
2.51E+04	-2	6	1.40E+03
3.49E+03	-0.923781303	9	1.66E+02
2.32E+02	-0.759394794	11	1.62E+02
1.07E+02	-0.344230052	5	2.89E+00
4.95E+00	-0.569413732	3	3.23E+00
6.21E+00	-0.43928801	8	9.43E+00
8.26E+02	-2	11	3.10E+04
2.28E+00	-0.297888458	9	5.88E+00
8.58E-04	2	5	1.80E-04
2.59E+00	-0.047167738	3	8.23E-01
5.89E+01	-0.019344949	44	3.37E+01
2.65E+01	0.011853877	6	8.92E-01
4.88E+01	0.157949453	12	5.36E-01
2.28E-03	0.556787672	10	5.20E-02
5.82E-03	0.913621416	19	3.38E-04
6.79E+05	0.183866961	54	4.56E-01
3.74E-01	0.480973828	1	2.70E-01
1.46E+04	-1	15	1.63E+05
7.37E+01	0.038657621	5	7.50E-01
1.39E+02	-0.954338061	16	7.21E+03
1.97E+01	0.03583318	11	1.13E+00
1.73E+02	-2	2	4.48E+01
1.31E+03	-1	8	7.03E+02
1.14E+04	-0.98253593	9	2.27E+02
1.61E+02	0.041996636	7	8.44E-01
3.17E-01	0.310403531	6	2.72E-01
1.13E+00	-1	5	6.53E+01
2.66E-01	-1	1	3.95E+00
5.68E+00	-0.063934587	13	2.65E+00
5.75E-05	2	15	2.99E-06
2.22E-02	0.802440953	4	6.73E-02
2.56E-02	0.691181452	3	1.19E-01
4.48E-01	0	1	6.16E-01
1.49E+00	0.098676685	15	8.96E-01
2.45E+00	0.009435775	7	9.75E-01
4.81E+00	-0.504248638	3	2.72E+00
9.82E-01	-0.391811157	4	2.63E+00

2.49E+05	-0.264406462	25	1.27E+02
8.96E+00	-0.360540328	2	1.46E+00
6.93E+03	-0.379791955	8	7.05E+00
6.90E-05	1	30	7.01E-08
2.47E+00	-0.032009929	8	1.29E+00
5.46E+03	-0.979140173	6	4.59E+01
1.22E+00	0.603169616	2	1.81E-01
2.60E-03	1	5	4.77E-03
3.18E+04	-1	16	1.06E+05
4.72E+06	-2	14	7.23E+05
6.53E+02	-0.529244408	12	5.33E+01
1.11E+00	-0.018457471	8	1.21E+00
3.47E-01	1	6	5.57E-03
7.32E+01	-0.899728994	3	7.67E+00
4.08E+02	-0.872133029	7	4.84E+01
3.13E-01	0.344911623	17	1.07E-01
1.22E-04	3	3	2.90E-04
3.77E-05	1	13	1.68E-04
5.13E-02	0.775075592	4	7.32E-02
6.60E+07	-1	19	1.67E+05
1.88E+01	0.437198362	12	8.27E-02
7.85E+00	-0.196932836	14	8.14E+00
1.52E+00	-0.568852542	4	4.54E+00
2.56E+02	-0.307946847	17	3.69E+01
9.05E+06	-2	12	4.22E+05
1.03E+03	-0.056074333	25	9.25E+00
5.94E-01	0.29578026	3	3.35E-01
2.86E+01	0.031199585	26	3.31E+00
1.35E+03	-0.276569645	33	7.87E+02
7.44E+01	-2	6	4.08E+02
3.10E-06	2	10	6.15E-06
2.04E+01	0.049659213	11	1.04E+00
6.89E-01	0.40514724	15	7.59E-02
1.67E+00	0.517235243	8	8.84E-02
1.88E-07	2	14	4.70E-06
2.17E-03	0.866115481	24	1.15E-04
4.91E+00	1	7	1.08E-02
9.19E+00	-0.107599073	8	1.87E+00
1.78E-05	1	15	8.98E-05
3.15E-08	2	24	4.08E-08
8.57E-06	3	5	1.06E-05
8.83E-02	0.194696218	5	4.33E-01
1.96E-01	-0.05683061	2	7.57E-01
1.33E-02	0.632761054	9	4.11E-02
1.26E+01	-0.117494715	9	2.25E+00
4.30E-01	-0.031499955	3	7.90E-01
1.37E+10	-2	17	9.06E+07

4.14E+05	-2	11	2.95E+04
4.55E-01	-0.014270167	2	6.90E-01
2.91E-01	0.252388958	6	3.43E-01
8.27E-01	0.125692454	3	5.24E-01
2.40E+00	0.981363193	4	3.88E-02
4.51E+00	0.083804771	3	5.84E-01
1.49E-01	0.894162198	7	1.94E-02
2.15E-01	0.97038773	3	5.73E-02
3.99E-02	0.468475685	3	2.13E-01
4.71E-02	-0.033679161	8	1.30E+00
1.38E-06	0.748490159	39	1.04E-05
3.30E+01	-0.746302599	7	2.77E+01
2.41E+03	-0.481650948	15	9.58E+01
3.91E-01	0.585952237	7	7.58E-02
4.41E+05	0.804833766	69	7.86E-10
3.54E-01	0.854162485	10	9.31E-03
5.84E-04	2	4	7.97E-04
3.34E-06	2	8	2.39E-04
1.19E+08	-2	22	5.02E+08
4.38E-01	0	1	6.16E-01
7.10E+00	-0.314493159	5	2.60E+00
1.69E+01	-0.235124904	6	2.38E+00
7.35E-02	0.410754651	15	7.26E-02
6.11E-01	-0.156305338	3	1.10E+00
1.69E+07	-1	22	9.82E+06
2.23E+00	0.470894406	3	2.12E-01
2.65E-01	1	5	2.39E-02
5.15E-02	1	7	4.08E-03
2.24E+01	0.400958438	46	3.76E-03
6.18E+00	0.054763486	6	7.52E-01
1.30E+00	-0.294690316	3	1.57E+00
6.20E+01	-0.341308805	4	2.26E+00
4.92E+00	-0.094526515	11	2.56E+00
6.12E+01	-0.331383342	21	1.16E+02
8.22E+01	-0.806048287	9	8.85E+01
1.45E+01	-0.492896206	13	5.68E+01
6.70E+01	-0.069558134	10	1.95E+00
4.90E+00	-0.210155157	13	7.53E+00
2.80E-01	-0.037753613	4	8.88E-01
7.16E-01	0.393222272	20	5.21E-02
1.43E+00	-0.133659625	8	2.12E+00
6.54E+01	0.422106726	19	4.31E-02
4.35E-01	1	5	1.03E-02
3.29E-02	0.678973891	23	1.40E-03
1.41E-02	0.35973227	28	3.90E-02
1.47E+02	-0.215149499	20	2.77E+01
2.61E-07	3	7	1.03E-06

5.39E+00	0.119944779	31	1.20E+00
1.74E+02	0.433551961	10	1.06E-01
4.81E+03	-1	7	4.72E+02
5.71E-01	-0.026151562	2	7.08E-01
2.87E+02	0.021921748	15	1.66E+00
2.42E-01	0.091459505	31	1.86E+00
4.53E-01	0.231423006	3	3.97E-01
2.97E-03	1	7	1.71E-03
1.48E+06	-1	14	8.01E+03
2.07E-10	3	11	2.51E-08
3.49E+01	-0.989159841	4	1.65E+01
2.39E+02	-0.663041917	8	2.81E+01
1.59E-01	1	5	1.63E-02
1.30E-07	2	19	8.66E-09
1.67E+02	-0.283652286	16	2.40E+01
5.18E+01	-0.889595801	8	8.50E+01
4.51E-02	0.600417765	7	7.11E-02
7.64E-10	1	44	2.71E-11
3.24E+06	-0.330738243	13	1.78E+01
4.42E+01	0.781897765	9	1.85E-02
1.42E+00	0.792069394	2	1.20E-01
8.45E-02	1	5	5.06E-03
1.62E-02	0.836690267	27	6.80E-05
5.22E-01	1	4	2.35E-02
9.18E-01	0.740991816	7	3.82E-02
1.33E-01	0.150439293	18	6.18E-01
1.03E-01	0.62038159	14	1.64E-02
9.09E+02	-0.095082385	20	8.03E+00
5.26E-01	0.82299211	9	1.49E-02
3.66E+02	0.698624648	9	2.89E-02
4.49E-01	0.31474309	29	6.89E-02
4.90E+00	-0.075212544	13	2.87E+00
8.48E-01	-0.365667534	5	3.12E+00
2.27E+01	-1	6	1.80E+02
1.22E+00	-0.284855689	3	1.53E+00
6.68E-01	-0.084118171	4	1.02E+00
1.23E+00	-0.310870304	9	6.31E+00
1.34E+00	-0.421833363	3	2.20E+00
6.39E+02	-1	16	6.58E+04
2.93E+05	-1	14	6.38E+03
1.24E+01	-1	4	2.59E+01
1.00E+02	-1	8	2.02E+02
7.94E-01	-0.257395919	3	1.43E+00
1.27E+01	-0.626605381	11	7.08E+01
4.35E-01	-0.022571612	3	7.72E-01
1.02E+02	-0.381962147	10	1.19E+01
8.83E+03	-0.343491994	9	7.50E+00

7.06E+03	-0.638357643	13	1.61E+02
2.31E+01	-0.308229414	6	3.18E+00
6.35E+00	1	11	1.84E-03
3.85E-01	0.302340806	2	3.48E-01
4.38E-01	1	1	5.08E-02
1.66E-01	1	6	4.06E-03
4.17E-02	2	5	1.28E-03
4.12E+01	0.014251759	12	1.40E+00
3.13E-01	0.005769637	5	8.42E-01
6.28E-01	-0.021630406	12	1.78E+00
5.07E+00	-0.497744737	14	8.01E+01
4.89E+00	-0.458781441	5	4.33E+00
9.05E+01	-0.473179073	8	1.11E+01
6.95E-01	-0.450960263	6	5.62E+00
4.27E+00	-0.521640155	6	7.44E+00
1.86E+00	-0.256490543	5	2.12E+00
9.60E+02	-1	8	1.30E+03
1.37E+01	-0.569920912	8	1.78E+01
3.28E+00	-0.344667829	5	2.90E+00
4.15E+01	-0.748282178	5	1.20E+01
2.01E+00	-0.178951462	2	9.86E-01
2.64E+00	-0.227822539	8	3.36E+00
1.83E+00	-0.17476421	5	1.59E+00
6.82E+00	-0.206031263	6	2.12E+00
1.21E+01	-0.485008361	3	2.59E+00
2.90E+01	-0.584701343	7	1.35E+01
2.68E+00	-0.429881613	5	3.91E+00
2.02E+03	-1	6	1.48E+02
1.56E+01	-1	2	9.57E+00
3.58E+03	-2	10	3.96E+04
2.89E+06	-0.820190822	26	2.18E+05
6.55E+01	-0.238981916	13	9.25E+00
5.35E+01	-0.15219321	15	6.75E+00
1.22E+00	-0.16474926	5	1.54E+00
1.21E+01	-0.289534518	5	2.38E+00
2.17E+00	-0.170735709	4	1.34E+00
2.04E+00	0.109687496	2	5.28E-01
5.25E+00	-0.207473767	8	3.04E+00
2.60E+00	-0.170030427	5	1.57E+00
3.64E+00	0.187956355	5	4.43E-01
5.20E+00	-0.320750216	7	4.21E+00
1.04E+00	-0.552154148	4	4.31E+00
3.56E+00	-0.196069038	4	1.44E+00
9.07E-01	-0.078288339	5	1.13E+00
2.37E+01	-0.315721148	5	2.62E+00
8.27E-01	0.024701427	2	6.34E-01
5.48E+00	-0.08379873	2	8.02E-01

3.43E+00	-0.224769575	7	2.75E+00
1.14E-01	0.635860975	6	7.46E-02
8.92E-01	0.128312628	3	5.20E-01
2.66E-11	3	14	3.32E-09
1.85E-01	-0.307810118	6	3.18E+00
2.97E+00	-0.329552294	5	2.75E+00
1.16E+01	0.511914014	9	7.83E-02
4.79E-01	0.283591793	4	3.31E-01
2.87E+00	0.066257478	6	7.18E-01
4.28E-02	0.376011098	7	1.92E-01
9.06E-02	0.281817329	6	3.05E-01
4.05E+01	-0.051836239	6	1.15E+00
2.29E+00	0.398988793	3	2.56E-01
2.44E-02	0.426040391	24	2.40E-02
4.58E+07	-2	17	1.95E+07
5.99E-01	-0.160426001	2	9.47E-01
1.55E+03	-0.828073411	9	9.95E+01
3.25E+00	-0.407302472	4	2.76E+00
1.23E+02	-1	7	3.84E+02
1.07E+06	-0.257914489	28	2.14E+02
7.27E-02	0.679663443	7	5.01E-02
1.53E+01	-0.422207465	8	8.68E+00
3.49E-03	1	16	1.11E-04
1.98E-02	1	10	2.53E-03
3.45E-02	1	10	1.20E-03
6.08E-01	0.573118403	6	9.57E-02
6.53E+03	-0.642873279	7	1.75E+01
4.42E+00	-1	2	7.81E+00
2.01E+01	0.050838587	5	7.19E-01
4.48E+04	-2	7	3.71E+04
5.37E+00	-0.819699107	5	1.54E+01
3.90E+00	-0.355545031	4	2.36E+00
1.15E+01	-0.179907562	5	1.62E+00
3.73E+06	-2	12	1.08E+05
1.29E+00	0.122071319	6	5.75E-01
1.64E+00	0.078851466	6	6.83E-01
7.67E-02	0.614086075	8	5.51E-02
2.19E+03	0.068325694	15	1.14E+00
3.08E-03	1	5	2.50E-02
6.69E+00	-0.30132862	7	3.86E+00
5.15E-02	2	4	6.07E-03
1.53E+01	-0.520507034	13	6.92E+01
4.64E-02	0.813066906	5	4.90E-02
8.89E-03	0.66776112	10	2.74E-02
2.36E-01	-0.095262445	6	1.37E+00
1.42E-01	1	6	6.39E-03
4.88E+02	-0.966352813	13	1.67E+03

6.51E-04	0.210361181	18	3.52E-01
4.93E+01	-0.992942243	3	9.79E+00
1.53E+01	-0.438668923	6	5.35E+00
1.72E+00	-0.582449524	6	9.47E+00
3.74E+04	-0.716720953	16	9.56E+02
4.42E-01	0.104508195	8	6.63E-01
9.45E-02	1	13	4.26E-05
1.35E-04	0.944852575	20	1.76E-04
2.99E+00	-0.568214733	4	4.53E+00
1.52E+01	-0.935594266	6	3.86E+01
4.88E+00	-0.140260691	21	1.48E+01
1.01E+01	0.448863338	5	1.77E-01
1.15E+05	-0.380358735	15	4.24E+01
1.84E-01	2	6	1.44E-03
1.23E+00	-0.779940242	12	2.85E+02
1.06E+00	-0.272055019	1	9.81E-01
7.29E+00	-0.38185564	6	4.27E+00
9.31E+06	-1	20	2.56E+05
1.95E+03	-2	7	1.83E+03
1.13E+01	-0.343616549	6	3.66E+00
1.67E+03	-1	9	8.03E+02
1.74E+01	-0.689877104	8	3.21E+01
1.22E+02	-0.655395804	9	3.96E+01
1.37E+01	-0.577707097	8	1.85E+01
4.17E+01	-0.419463531	10	1.48E+01
1.97E+00	0.032527733	1	5.82E-01
3.43E+00	0.000898225	12	1.53E+00
1.78E+01	-0.330820235	7	4.40E+00
2.94E+00	-0.389817662	4	2.62E+00
4.76E+02	-0.984708172	5	2.76E+01
4.36E+04	-2	8	2.56E+04
1.35E+05	-1	21	4.04E+05
3.64E+00	-0.39786119	9	1.00E+01
9.29E-01	-0.015749595	3	7.58E-01
1.46E+00	-0.043273552	6	1.11E+00
7.01E+00	-0.549755233	7	1.16E+01
2.05E+01	-0.746966667	6	1.82E+01
6.41E+00	-0.530835056	7	1.07E+01
6.69E-01	-0.832911694	1	2.56E+00
3.93E+01	-0.464495182	15	8.34E+01
2.58E+02	-0.389751524	11	1.62E+01
2.01E+02	-0.947775866	6	4.05E+01
3.01E+01	-1	6	9.77E+01
3.94E+00	-0.989404369	4	1.65E+01
5.58E-01	-0.176023256	9	3.07E+00
6.29E+00	0.46481216	4	1.90E-01
1.99E+00	0.318835931	9	2.19E-01

5.07E-06	1	34	7.65E-09
1.53E+00	0.208267865	6	4.08E-01
1.06E-03	2	7	2.33E-04
1.30E-06	2	8	9.35E-06
1.13E+03	-0.371601714	42	3.54E+04
4.29E-01	-0.16832635	2	9.64E-01
6.62E-01	-0.175307039	3	1.15E+00
5.37E-01	-0.061295575	3	8.54E-01
5.87E-05	0.804986414	37	6.28E-06
5.63E+02	-0.730440922	11	1.35E+02
7.94E+00	0.100531044	13	8.18E-01
3.12E+03	-2	6	1.62E+04
5.28E+03	-1	7	2.01E+02
1.43E-01	-0.00763812	14	1.93E+00
5.56E+02	-0.640981817	15	3.46E+02
1.91E+01	-0.228446162	17	1.81E+01
7.78E-01	0.390665182	14	9.37E-02
4.04E-02	0.315110374	4	3.01E-01
4.85E-01	0.710557011	4	8.92E-02
3.46E-01	0.313431306	3	3.20E-01
9.38E-03	0.222485589	23	2.88E-01
2.22E+05	-0.896919123	8	8.81E+01
4.28E+01	-0.361078615	3	1.87E+00
4.79E-01	-0.022097384	2	7.02E-01
8.16E-11	2	29	4.62E-10
4.07E-03	2	5	1.57E-03
2.53E+03	-1	10	5.57E+03
4.29E+04	-0.945366732	7	6.69E+01
1.92E+04	-2	4	2.17E+02
2.67E+03	-0.175621349	21	2.17E+01
8.22E+05	-2	11	7.47E+04
7.19E+01	0.009831808	5	8.31E-01
2.00E+01	0.213327435	8	3.90E-01
2.20E+02	-0.500652531	21	7.18E+02
9.51E-01	-0.140482258	3	1.05E+00
3.37E-01	-0.158986851	7	2.05E+00
1.60E+00	-0.367164186	1	1.15E+00
2.29E+02	-0.392440467	3	2.03E+00
2.86E+03	-0.858564537	15	1.99E+03
5.59E+00	-0.471767392	4	3.37E+00
2.41E+09	-0.828880171	43	5.96E+08
2.24E-01	0.327004071	16	1.34E-01
8.42E-03	0.567127578	4	1.39E-01
1.30E-03	0.944486858	11	3.91E-03
2.76E-02	0.640919268	15	1.14E-02
8.10E+02	-0.815419957	9	9.30E+01
2.21E+03	-1	7	4.34E+02

2.33E+02	-2	3	2.29E+02
2.62E+10	-0.766120904	52	7.80E+09
4.34E-01	-0.03978634	2	7.29E-01
3.54E+00	-0.203628571	4	1.48E+00
2.29E+02	-0.426169009	13	3.53E+01
1.74E+00	-0.786314976	2	3.67E+00
8.12E+01	-1	5	6.71E+01
3.30E+02	-1	10	4.10E+03
7.12E+06	-1	18	3.96E+04
2.92E-01	0.377628328	17	7.96E-02
4.90E-01	0.023366166	4	7.36E-01
2.47E-11	1	36	1.09E-07
5.11E+00	-0.339647118	10	9.32E+00
1.05E-01	1	8	7.05E-03
9.64E+03	0.583630912	43	1.14E-04
7.70E+03	-0.885000208	11	3.55E+02
4.30E-01	-0.104322506	3	9.56E-01
1.77E+01	-0.315998191	7	4.12E+00
7.86E+00	-0.163937933	3	1.12E+00
1.34E+00	-0.188718505	8	2.78E+00
9.23E+00	-1	6	1.80E+02
1.03E+02	0.298011526	12	2.10E-01
2.59E+00	0.789520004	3	9.21E-02
1.04E+08	-2	14	2.06E+07
7.79E-01	-0.392322416	7	5.78E+00
7.25E+03	-0.523040317	29	1.19E+04
4.72E-01	-0.030974654	1	6.49E-01
6.97E-03	2	10	9.97E-05
1.69E-01	2	2	2.48E-02
2.19E-02	0.792293289	11	1.01E-02
1.10E-01	0.761978034	8	2.68E-02
1.29E+03	-0.174855011	23	2.98E+01
1.91E+00	-0.000255213	10	1.31E+00
7.16E+00	0.398134181	68	4.77E-04
2.20E+00	-0.220274378	4	1.56E+00
6.86E+00	-0.195608296	4	1.44E+00
2.22E+03	-0.800995796	9	8.62E+01
4.18E-08	0.735842848	55	2.44E-07
3.87E-02	-0.199566793	12	5.87E+00
1.20E-01	-0.722356651	6	1.65E+01
5.70E-03	1	5	4.52E-03
1.43E+03	-0.38056166	16	5.48E+01
5.08E+00	-0.783079603	6	2.10E+01
4.13E+06	-1	20	1.59E+05
1.83E+03	-2	4	2.10E+02
9.07E-01	0	2	6.69E-01
1.98E+01	-0.511415019	5	5.21E+00

4.97E-01	1	9	3.17E-03
9.48E+03	-0.773350311	23	3.22E+04
2.68E-01	0.08400539	17	1.10E+00
6.01E-01	0.097828235	3	5.63E-01
1.91E+01	0.098654224	25	1.32E+00
6.64E-01	-0.042811531	2	7.34E-01
5.54E-01	0	3	7.28E-01
1.06E+03	-0.558118173	22	1.87E+03
1.25E+02	-0.249672564	12	8.20E+00
1.52E+01	-0.175713764	7	2.21E+00
1.05E+00	0.438754659	7	1.46E-01
4.12E-01	0.8519531	5	4.27E-02
3.40E-01	0.228153303	7	3.70E-01
2.01E+00	0.27994939	1	3.81E-01
2.11E+02	0.055444301	10	9.47E-01
6.71E+01	0.247113573	5	3.60E-01
3.46E+02	0.342871041	14	1.35E-01
1.73E+00	-0.159400264	4	1.29E+00
7.54E-02	0.36859075	10	1.55E-01
4.15E-04	1	12	8.81E-05
3.29E-01	0.384482541	11	1.29E-01
3.92E+00	-0.313689057	6	3.25E+00
6.38E+01	-1	7	1.45E+02
2.37E-01	0.653735717	8	4.54E-02
9.88E+00	0.021389951	4	7.41E-01
4.79E-01	0.491742215	16	3.29E-02
1.15E-07	2	14	2.45E-07
8.92E-04	3	2	1.39E-03
8.32E-03	1	5	1.23E-02
1.87E+01	-0.159966738	2	9.46E-01
8.17E+01	-0.731636541	5	1.13E+01
2.31E+03	-1	8	8.86E+02
1.11E+02	-2	2	4.20E+01
2.83E+01	-2	2	4.10E+01
1.41E+00	-0.684252459	7	2.10E+01
3.23E+00	-0.52923406	2	2.10E+00
7.93E+01	-0.686997237	6	1.44E+01
3.11E+00	-0.084385976	6	1.31E+00
8.12E-01	-0.166904415	3	1.13E+00
8.39E+00	-0.380775626	6	4.25E+00
8.88E+00	-0.224445349	9	3.98E+00
9.25E+01	-0.28104416	8	4.36E+00
1.95E+00	0.227663909	4	3.93E-01
6.97E-02	2	2	9.94E-03
1.06E-08	3	11	8.12E-08
2.93E+01	-0.148691601	7	1.96E+00
3.77E+01	-0.907003442	5	2.10E+01

5.29E+01	-0.528892812	14	1.01E+02
3.49E-01	-0.099569816	4	1.07E+00
2.08E+02	-0.71329984	5	1.06E+01
1.48E-09	2	19	2.17E-10
3.83E-06	1	19	4.60E-06
8.80E-02	0.710831393	4	8.92E-02
2.21E-06	1	17	4.46E-05
9.07E-17	1	51	3.05E-12
2.48E-05	0.772951477	21	7.95E-04
9.61E+00	0.178018385	3	4.57E-01
8.87E-01	1	3	3.91E-02
1.89E-04	0.975284335	8	9.45E-03
8.42E-10	2	21	1.98E-07
6.51E+01	0.321058584	9	2.17E-01
2.46E+01	0.083823429	8	7.34E-01
6.17E-01	0.581510949	8	6.46E-02
1.94E+01	0.171292867	18	5.08E-01
3.79E-01	-0.032855999	7	1.18E+00
3.60E+00	0.208006407	14	3.75E-01
7.81E+00	0.925776352	3	6.45E-02
9.29E+00	0.028275652	8	9.62E-01
9.80E-01	-0.013467877	6	9.86E-01
2.73E+00	-0.150506639	6	1.70E+00
8.38E+02	-2	5	2.31E+02
2.48E+02	-1	5	6.05E+01
1.76E-02	0.897282285	6	2.64E-02
3.75E+00	0.341441431	6	2.40E-01
2.33E+02	-0.440568244	16	9.13E+01
1.14E+01	0.019810802	7	9.31E-01
1.03E+02	-0.155023864	17	9.39E+00
8.10E+00	0.054648243	15	1.28E+00
2.25E+02	-0.595103385	18	6.89E+02
1.40E+03	-0.386088958	18	9.63E+01
4.86E+02	-0.808076073	18	5.11E+03
7.13E-01	0	2	6.69E-01
3.22E+00	-0.285282208	14	1.59E+01
2.20E+00	0.446518681	11	8.75E-02
4.72E-02	0.934661013	6	2.27E-02
1.65E-07	1	26	9.07E-07
9.53E-04	2	5	4.08E-03
1.08E-01	0.649224545	4	1.08E-01
7.27E+04	-2	12	1.18E+06
2.58E+03	4.17E-05	41	1.74E+01
5.01E-01	0.413901425	6	1.80E-01
9.37E-10	2	20	2.11E-08
2.55E+01	0.218551484	40	2.32E-01
1.12E+00	-0.24484586	4	1.68E+00

5.32E+00	0.340900192	5	2.59E-01
2.25E+00	-0.566272171	3	3.20E+00
1.14E+00	0.527141445	15	2.84E-02
8.08E+01	-0.379476627	6	4.23E+00
5.68E-01	0.102636556	7	6.45E-01
5.46E+03	-0.233450422	28	1.52E+02
4.48E-01	-0.026590211	1	6.44E-01
7.42E+02	-0.619357051	8	2.27E+01
2.60E-04	2	6	1.96E-03
2.51E-34	2	88	2.63E-30
4.25E+01	0.08094483	22	1.43E+00
2.11E+03	-1	11	3.43E+03
8.66E-01	-0.109523136	3	9.69E-01
4.90E+00	0.236862387	15	2.94E-01
1.90E+01	0.149987122	9	5.40E-01
4.92E+00	0.067124574	12	9.84E-01
3.46E-03	0.336293897	11	1.74E-01
1.17E+00	1	7	3.55E-03
5.79E+01	-1	6	8.18E+01
6.80E-02	0.494755302	28	5.94E-03
1.48E-01	0.08796349	5	6.31E-01
7.75E-02	1	13	3.16E-04
1.01E-12	1	38	2.45E-11
2.22E-05	3	5	9.65E-06
1.82E-02	1	10	5.85E-04
6.17E-02	-0.032701285	39	2.73E+01
2.87E-01	0.101394659	4	5.79E-01
9.08E-02	0.523494538	11	5.41E-02
2.99E+00	0.378758929	20	6.05E-02
8.56E-04	1	13	7.38E-05
4.14E-02	1	10	4.50E-04
8.08E-01	0.4717558	5	1.63E-01
1.11E+00	0.271474392	10	2.71E-01
6.22E-02	0.624765741	3	1.42E-01
2.03E-03	1	14	2.14E-04
5.11E-01	-0.104501408	1	7.36E-01
7.58E+00	-0.953949692	10	3.26E+02
5.56E+00	-0.613629084	4	5.21E+00
1.45E+02	-0.911736454	10	2.56E+02
1.26E+01	-0.886980269	6	3.18E+01
1.43E+01	-0.905548581	7	5.61E+01
5.75E+00	-0.396191422	2	1.58E+00
1.78E+04	-2	6	4.01E+02
1.16E+03	-0.972163942	5	2.64E+01
2.64E+05	-0.492663755	14	7.70E+01
4.45E-01	-0.008779048	1	6.25E-01
3.35E+01	-0.297704177	5	2.45E+00

1.72E+06	-0.496801666	32	2.05E+04
5.69E+03	-0.01506437	18	2.93E+00
7.49E-01	0.02175526	2	6.38E-01
5.78E-02	0.807796281	6	3.76E-02
2.47E+02	-2	7	8.22E+02
7.80E-01	-0.289463138	5	2.38E+00
4.44E+06	-1	9	2.27E+03
5.81E+03	-0.719773476	15	6.52E+02
2.69E-31	1	97	7.39E-26
7.44E-02	0.565589006	10	4.95E-02
1.14E+00	-0.884359639	6	3.15E+01
1.05E-02	0.872193274	40	7.36E-07
1.76E+00	0.720494617	7	4.18E-02
1.14E-02	1	9	1.97E-03
7.93E+00	-0.370434082	11	1.43E+01
3.68E-05	1	10	2.32E-03
2.18E+00	0.184301879	6	4.49E-01
3.97E-01	0.130054635	8	5.85E-01
8.40E-01	0.248423744	2	3.91E-01
9.61E+07	-0.595938891	51	8.05E+07
7.57E+04	-1	13	1.30E+04
7.64E-23	1	67	7.34E-17
4.34E-01	1	4	2.81E-02
9.71E-03	2	6	1.52E-03
2.16E-01	0.287849182	2	3.59E-01
2.05E-01	0.645020368	10	3.12E-02
2.65E-02	3	3	2.13E-04
2.94E-02	1	10	3.18E-03
3.50E-01	0.580367628	9	5.43E-02
6.60E-01	0.705797005	5	7.15E-02
1.02E+00	0.221531675	6	3.87E-01
1.46E+02	-0.317795236	11	1.03E+01
7.98E+00	-0.144353322	28	4.39E+01
6.12E+01	-0.383242227	8	7.17E+00
4.59E-03	0.740729175	5	6.32E-02
5.20E-04	2	5	4.67E-04
4.87E-03	1	5	4.40E-03
1.84E-02	1	5	5.13E-03
7.16E-02	2	1	3.92E-02
3.98E-02	0.883616979	8	1.48E-02
1.49E+22	-1	34	1.64E+11
6.96E-01	0.776764463	7	3.26E-02
1.10E-07	2	17	2.65E-07
8.59E-03	0.96816817	8	9.78E-03
3.29E-01	0.430603552	15	6.19E-02
6.50E+00	-0.216872921	12	6.59E+00
8.73E-01	-0.088621152	2	8.11E-01

3.20E-01	0.191936087	3	4.40E-01
6.77E-03	2	6	2.17E-03
4.30E-01	0.043621459	2	6.09E-01
3.08E+02	-0.857050225	7	4.52E+01
9.27E-09	1	102	4.09E-19
9.67E-01	0.228485797	9	3.55E-01
1.26E+10	-0.777845586	49	2.82E+09
2.47E-01	0.655192459	7	5.58E-02
1.92E+01	-0.618549803	8	2.26E+01
3.17E-02	0.526615621	4	1.57E-01
2.48E-03	1	8	5.08E-03
1.64E+01	-0.113506373	15	4.94E+00
2.06E+06	-0.736057442	39	1.64E+07
9.55E-01	-0.091172806	6	1.34E+00
1.07E+04	-2	8	5.40E+03
1.88E+03	-1	14	3.38E+04
3.34E+05	-2	8	6.17E+04
1.51E+01	0.372807145	9	1.64E-01
1.91E+01	0.651614655	11	2.43E-02
1.68E-02	0.876705596	8	1.53E-02
2.21E+00	0.162354231	14	5.31E-01
6.30E-01	0.416015638	21	3.71E-02
1.60E+00	0.101982376	13	8.09E-01
1.80E+01	-0.730461832	2	3.25E+00
1.84E+00	1	5	5.58E-03
3.80E+00	-0.715802985	2	3.15E+00
2.43E-17	3	27	8.18E-15
1.10E+00	-0.652263891	6	1.25E+01
6.57E-01	-0.219735342	5	1.86E+00
6.67E-01	-0.088434441	10	2.18E+00
4.29E-03	0.332338179	11	1.78E-01
7.74E-02	0.590019147	9	5.16E-02
2.67E-01	0.369008354	9	1.68E-01
1.01E-01	0.314792424	6	2.67E-01
2.70E-05	0.93958487	30	6.09E-06
5.31E+00	-0.252779815	8	3.79E+00
4.38E-01	0	1	6.16E-01
5.34E-01	-0.239831002	3	1.36E+00
3.41E+04	0.010744803	21	2.91E+00
5.47E-01	-0.041168933	6	1.10E+00
3.33E+00	-0.380955637	8	7.09E+00
4.16E+00	0.053034832	14	1.22E+00
2.58E+03	-0.544955873	15	1.59E+02
8.99E-01	-0.008466814	4	8.12E-01
1.77E+02	-0.922048459	9	1.64E+02
9.87E+04	-1	18	1.07E+05
5.15E+00	-0.634784148	6	1.17E+01

8.25E-02	1	3	4.77E-02
1.62E-01	0.793466727	5	5.25E-02
2.93E+00	0.940131818	12	2.85E-03
7.90E-01	0.777177388	6	4.25E-02
9.05E-04	2	8	1.02E-04
3.18E-07	1	18	2.77E-05
3.73E-01	0.138685053	14	6.36E-01
5.19E+00	-0.301452156	13	1.45E+01
1.10E-04	1	26	2.80E-07
2.22E-04	2	12	1.91E-05
6.37E-03	1	7	9.79E-03
3.27E-01	0.110406342	7	6.23E-01
1.12E+00	0.291768689	13	2.09E-01
3.37E-01	0.961983926	9	7.09E-03
1.06E+00	-0.475747316	1	1.39E+00
1.49E+03	-0.048104517	11	1.92E+00
4.48E-02	0.978765047	6	1.91E-02
8.46E-03	2	6	1.56E-04
3.36E-03	0.591228807	6	8.91E-02
1.39E-03	0.919985346	16	8.62E-04
7.57E-02	2	9	1.29E-04
3.07E+00	0.792741591	4	6.93E-02
3.54E-01	2	6	1.31E-03
2.31E-01	0.457941842	4	1.94E-01
4.62E-01	-0.08419793	1	7.11E-01
6.43E+03	-1	8	8.22E+02
7.07E+01	-0.090814869	8	1.72E+00
2.06E+00	0.620879643	4	1.18E-01
4.34E-11	0.473061846	41	1.47E-03
1.56E-05	0.680539541	14	1.04E-02
7.33E-10	1	64	3.25E-14
7.75E-03	2	4	2.08E-03
2.50E-01	0.217605395	10	3.71E-01
5.20E-03	0.746837879	11	1.34E-02
9.47E-04	1	11	2.17E-04
3.24E-01	0.576438237	14	2.28E-02
1.48E+00	0.180188802	11	4.61E-01
9.66E+00	0.107378059	15	8.35E-01
3.56E+01	-1	11	1.25E+03
2.34E+00	-0.256092634	1	9.54E-01
8.24E+03	-0.900515999	14	1.71E+03
1.42E+03	-1	11	8.07E+02
5.88E+01	-2	3	3.89E+02
1.00E+05	-0.584794004	11	5.46E+01
3.38E+01	-0.820512623	5	1.55E+01
3.43E+01	-0.998633127	4	1.70E+01
4.63E+09	-2	15	5.14E+06

2.53E+03	0.393630009	31	1.83E-02
1.22E+02	0.097498165	16	9.40E-01
3.02E+06	-1	18	1.09E+05
1.58E+05	-0.472647532	26	2.35E+03
6.47E+00	0.088657323	24	1.43E+00
2.61E-05	1	28	4.00E-06
3.03E-01	0.105130455	8	6.61E-01
7.75E-32	2	73	1.77E-26
3.54E+03	-2	5	2.03E+03
5.36E+01	-0.443347503	7	7.24E+00
4.35E-01	0.211616622	6	4.03E-01
1.63E-01	0.158529323	5	4.92E-01
4.05E-01	0.79266844	3	9.13E-02
3.19E+09	-1	21	1.24E+06
1.78E+16	-0.658911419	90	1.10E+15
1.35E+00	-0.39097391	17	7.77E+01
5.81E+00	-0.328774685	7	4.36E+00
5.01E+00	-0.361374641	5	3.07E+00
3.84E+01	-0.400749404	7	6.00E+00
6.04E-04	0.432815334	31	1.01E-02
1.33E-03	0.564133063	20	8.94E-03
1.20E-07	1	42	1.86E-09
1.81E-07	1	17	2.40E-05
2.56E+05	-0.354955247	32	2.20E+03
4.95E+05	-1	18	9.49E+05
3.31E-01	-0.098945586	8	1.79E+00
3.42E-01	0.474481181	4	1.84E-01
9.86E-07	2	11	4.67E-05
2.59E-03	0.276546039	11	2.53E-01
6.38E-01	0.07801357	11	8.72E-01
4.13E-01	0.728264123	7	4.04E-02
1.21E+00	0.326140294	8	2.25E-01
4.09E-15	3	20	1.01E-11
1.76E-04	3	2	4.16E-04
3.94E-01	-0.59847119	16	3.50E+02
3.16E-01	-0.048958395	16	3.27E+00
4.59E-01	-0.083636422	7	1.47E+00
1.94E+00	0.106232771	6	6.13E-01
2.10E-01	0.289572641	9	2.56E-01
2.93E-01	0.444926857	1	2.87E-01
2.02E-05	2	17	2.06E-06
6.25E+08	-0.965328859	21	1.07E+05
7.81E-01	-0.055284294	1	6.77E-01
1.24E-01	1	20	1.65E-05
3.52E-01	0.005869712	11	1.37E+00
7.43E+00	-0.336314078	7	4.51E+00
1.31E+01	0.184742548	10	4.48E-01

8.06E+01	-1	6	6.07E+01
2.91E+03	-2	7	1.08E+04
2.57E+00	0.454045211	7	1.36E-01
5.06E+05	-0.969126504	17	1.38E+04
4.85E-01	-0.008530635	3	7.44E-01
4.84E+02	-0.103141491	21	9.93E+00
6.76E+07	-0.313064904	17	3.87E+01
2.87E+00	-0.316181184	3	1.66E+00
1.03E+01	-0.325875295	7	4.30E+00
4.53E+02	-0.42934293	12	2.73E+01
6.57E+04	0.007329529	31	6.74E+00
1.07E+00	0.129546654	8	5.87E-01
1.03E+00	-0.634347235	9	3.54E+01
9.21E-04	0.073010564	43	4.52E+00
2.93E-03	1	7	2.92E-03
3.24E-06	0.647832671	38	8.64E-05
9.21E+00	-1	6	6.15E+01
1.61E+00	0.153284208	5	5.01E-01
4.44E+00	-0.283867718	6	2.89E+00
1.36E-01	0.998459779	6	1.76E-02
2.67E-01	0.29013319	10	2.44E-01
1.68E-03	0.891395029	25	6.17E-05
7.90E-03	2	3	5.88E-03
1.30E+00	0.139515003	4	5.15E-01
2.55E+01	-0.184234536	44	1.11E+03
6.86E-01	-0.023824099	3	7.74E-01
6.34E-08	1	24	7.68E-07
4.50E-09	2	9	3.23E-06
5.02E-02	1	8	2.81E-03
1.12E-01	0.223912147	4	3.98E-01
3.36E-01	0.477728861	2	2.38E-01
5.93E-01	0.182215618	11	4.55E-01
1.40E-01	0.233868983	5	3.77E-01
1.47E-04	2	8	4.77E-04
1.09E-08	3	10	1.69E-07
9.31E-02	0.199617297	15	3.97E-01
3.93E-01	0	6	9.35E-01
4.79E-01	0.121126643	9	6.29E-01
5.50E+00	-0.421067527	6	4.99E+00
2.49E+17	-1	55	5.81E+16
3.08E-01	0.018605519	24	3.35E+00
4.98E-01	0.003878039	3	7.20E-01
2.94E-01	0.061987719	9	8.63E-01
4.01E-01	0	5	8.60E-01
1.53E-01	0.203166893	13	3.93E-01
5.12E-01	0.008632828	11	1.34E+00
8.81E+02	0.401001088	43	5.04E-03

2.05E+00	-0.227130888	4	1.59E+00
5.40E-01	-0.007628796	4	8.10E-01
2.67E-01	0.323459666	5	2.75E-01
1.68E-03	0.30746884	27	8.55E-02
2.44E-01	0.129534197	11	6.32E-01
4.02E-01	0.001823427	5	8.54E-01
4.42E+00	-0.177463843	9	3.09E+00
1.43E+00	-0.287267709	6	2.93E+00
1.17E+01	-0.176912305	29	8.14E+01
2.02E+01	-0.341465848	6	3.63E+00
2.41E+02	-0.14669074	42	3.70E+02
2.41E+03	-0.596023937	16	3.43E+02
8.23E-01	-0.291770044	5	2.40E+00
6.47E+04	-0.833180694	12	4.08E+02
7.23E+02	-0.58739973	14	1.58E+02
2.71E+02	0.09466253	18	1.05E+00
4.30E+00	0.071669046	18	1.30E+00
3.96E-01	-0.065274514	6	1.21E+00
2.66E-01	-0.138643964	20	1.26E+01
5.36E-01	-0.012899252	6	9.84E-01
4.77E+00	-0.098911427	24	1.39E+01
6.09E-01	-0.004765828	6	9.53E-01
4.27E-01	0.065971501	2	5.80E-01
2.21E-06	0.783668429	59	2.36E-08
3.07E-02	-0.131693687	17	7.62E+00
3.60E-01	0	10	1.31E+00
2.01E-01	-0.010700099	8	1.16E+00
3.95E-01	0	7	1.02E+00
4.75E-01	0	1	6.16E-01
1.31E-01	-0.010811404	14	1.98E+00
1.55E+02	-0.043706108	49	9.45E+01
1.63E+01	-0.145926127	23	2.12E+01
3.76E-01	0	8	1.10E+00
2.90E-01	0.002518753	6	9.25E-01
4.25E-01	0.011272829	1	6.04E-01
3.08E-01	0.230393464	10	3.44E-01
5.42E-01	0.073472756	24	1.72E+00
9.65E+00	-0.212048988	6	2.17E+00
5.54E+00	-0.868322227	4	1.14E+01
1.37E+01	-0.427158351	11	2.04E+01
4.29E-01	-0.017086406	3	7.61E-01
4.20E-01	0	3	7.28E-01
4.38E-01	0	1	6.16E-01
3.70E-01	-0.037451829	3	8.02E-01
4.38E-01	0	1	6.16E-01
5.12E-01	0	4	7.91E-01
4.24E-01	0	2	6.69E-01

4.44E-05	0.714301378	25	5.72E-04
3.37E+00	0.659636924	4	1.04E-01
1.58E-01	-0.298810502	15	2.20E+01
3.47E-08	1	22	4.57E-07
1.04E-02	0.721722146	9	2.56E-02
2.90E+00	0.4628859	5	1.68E-01
3.83E+02	-0.78102857	10	1.20E+02
2.79E+00	-0.136017345	4	1.20E+00
4.37E-01	0	4	7.91E-01
4.29E-01	0	2	6.69E-01
6.74E-01	0	6	9.35E-01
4.20E-01	0	3	7.28E-01
5.88E-01	0.09648804	3	5.65E-01
4.02E-01	-0.133489909	5	1.38E+00
4.13E-01	-0.008600666	7	1.06E+00
7.82E+01	0.242069765	5	3.66E-01
7.60E+00	-0.362016924	6	3.94E+00
8.42E-01	-0.208667233	3	1.26E+00
7.18E-01	-0.157810486	3	1.10E+00
1.43E+02	-0.91269478	12	6.94E+02
1.37E+00	-0.316678561	6	3.29E+00
3.99E+00	-0.146275904	6	1.67E+00
1.09E+00	-0.529869563	10	2.80E+01
7.70E-01	-0.258946939	3	1.43E+00
1.94E+01	-0.305353154	6	3.15E+00
3.05E+03	-0.857850796	10	1.87E+02
9.55E-01	-0.149150651	3	1.08E+00
1.51E+00	-0.000110213	5	8.60E-01
4.23E-01	-0.000125944	3	7.28E-01
3.29E+02	-0.633324894	8	2.43E+01
2.47E+02	-0.944556621	9	1.85E+02
3.44E-01	-0.346539342	6	3.71E+00
6.40E-01	-0.197969142	3	1.22E+00
4.90E-01	0.432012222	4	2.10E-01
2.22E+01	-0.422909721	6	5.02E+00
6.67E+02	-0.954019069	8	1.16E+02
4.14E+00	-0.321959765	6	3.36E+00
7.65E+01	-0.486478328	10	2.18E+01
2.78E-01	-0.006473701	2	6.79E-01
3.41E+01	-0.262606355	7	3.25E+00
1.87E+03	-0.340932152	10	9.39E+00
1.88E+01	-0.347614172	7	4.74E+00
8.10E-01	-0.033778915	2	7.20E-01
9.80E-01	-0.244861736	7	3.01E+00
6.89E-01	1	6	3.15E-03
2.05E-01	-0.140584005	3	1.05E+00
1.22E-03	2	5	2.40E-04

3.37E-01	-0.118460657	14	4.49E+00
2.42E+00	-0.158643227	5	1.50E+00
2.02E+02	-0.896399557	8	8.79E+01
1.13E-01	-0.439113336	6	5.36E+00
3.67E-01	-0.099912395	4	1.07E+00
2.97E-01	-0.021496861	2	7.01E-01
1.59E+00	-0.234286746	3	1.34E+00
5.52E+02	-0.168644135	17	1.06E+01
3.83E+00	-0.684831202	5	9.60E+00
3.86E+01	-1	6	7.04E+01
2.74E-01	-0.009894443	3	7.47E-01
5.42E+02	0.122872345	22	8.96E-01
1.19E+02	-1	10	5.13E+02
9.00E-01	0.457184015	4	1.94E-01
1.31E+01	-0.55973642	5	6.18E+00
1.77E+01	-2	6	4.15E+02
2.65E+00	0.244768491	4	3.73E-01
4.16E-01	-0.061043119	6	1.19E+00
4.02E-01	-0.062729926	8	1.50E+00
4.44E+00	-0.22129644	3	1.30E+00
1.28E+00	-0.284182681	4	1.89E+00
1.31E+00	-0.279711572	5	2.30E+00
9.33E-01	-0.140230912	8	2.19E+00
9.09E+03	-0.236291494	15	1.33E+01
3.00E-01	0.02689889	20	2.28E+00
2.90E+02	-0.695657302	7	2.21E+01
9.04E+03	-1	8	5.57E+02
2.68E+01	-0.483022558	5	4.72E+00
4.93E-01	-0.257395919	3	1.43E+00
8.84E+00	-1	1	7.55E+00
1.83E+00	-1	1	5.35E+00
1.07E+02	-1	4	2.45E+01
2.31E+00	-0.733045023	4	7.51E+00
4.43E-01	-0.01648115	1	6.33E-01
6.45E+07	-0.958933125	14	2.66E+03
2.61E+00	-0.258433506	3	1.43E+00
9.43E-01	0	3	7.28E-01
1.32E+00	-0.275333295	7	3.44E+00
1.67E+02	-0.300018726	14	1.78E+01
5.80E-01	-0.035888414	7	1.19E+00
4.95E-01	-0.024058151	3	7.75E-01
3.93E-05	0.809696391	28	7.37E-05
8.20E-18	2	29	9.09E-14
9.54E-02	0.252184971	10	3.03E-01
4.29E-01	0	2	6.69E-01
4.29E-01	0	2	6.69E-01
4.82E-01	0	7	1.02E+00

8.78E-11	0.77897439	70	1.39E-09
1.87E-10	0.491264748	71	1.59E-05
2.37E-02	1	10	9.36E-04
3.27E+01	0.356433117	5	2.45E-01
1.49E+01	-0.703876615	6	1.54E+01
6.38E-01	-0.584455886	6	9.55E+00
2.12E+03	-0.607814143	32	1.18E+05
1.96E+00	0	8	1.10E+00
4.73E-01	-0.031765891	10	1.57E+00
1.08E+01	-0.08922155	6	1.33E+00
5.57E+00	-0.172765395	20	1.79E+01
6.31E-01	-0.000541982	6	9.37E-01
5.28E+00	0.114585792	7	6.12E-01
1.96E-01	0.144143704	20	6.80E-01
1.67E-01	0.12884241	14	6.85E-01
1.67E+00	0.127199921	19	7.90E-01
1.99E-01	0.154974555	1	4.72E-01
3.95E-01	0.486990264	7	1.18E-01
1.14E+06	-0.1856983	28	7.81E+01
1.44E+01	-0.504657157	5	5.09E+00
6.05E-01	-0.042224244	2	7.33E-01
4.54E-01	0	1	6.16E-01
8.61E-01	0	3	7.28E-01
1.14E+04	-0.883900617	10	2.17E+02
4.62E-07	2	15	1.80E-07
6.12E+00	-0.144653328	8	2.24E+00
2.44E+03	-0.804310019	13	5.26E+02
1.70E+02	-0.421135102	18	1.34E+02
2.64E+06	-0.587200641	23	3.67E+03
3.87E-01	0.178503174	23	4.81E-01
6.98E+00	0.028430482	7	8.96E-01
1.79E+02	-0.605363215	12	8.87E+01
1.11E+00	-0.331461809	5	2.76E+00
1.68E+00	-0.120692172	4	1.15E+00
4.42E+00	-0.784017934	13	4.55E+02
2.31E+01	-0.299106564	11	9.18E+00
6.23E-01	-0.000902159	10	1.31E+00
1.96E+01	-0.08945692	9	1.94E+00
1.40E+05	-2	13	8.79E+04
6.35E-01	-0.287675185	3	1.55E+00
3.93E-01	0.03067889	2	6.26E-01
2.81E-01	0.30880001	17	1.47E-01
1.59E+00	0.212814309	11	3.76E-01
1.05E+07	-0.539299746	24	2.91E+03
3.46E+00	-1	3	1.24E+01
1.68E+02	-0.211349233	16	1.30E+01
4.46E+00	-0.293131345	7	3.72E+00

1.61E+06	-0.087283292	13	3.13E+00
4.74E+02	-0.862119926	18	8.49E+03
7.03E-01	0.235933725	16	2.90E-01
8.82E-01	-0.286081785	6	2.92E+00
2.09E+00	0.190011666	12	4.33E-01
1.25E+02	-0.090457827	33	3.86E+01
9.74E+00	-0.67250496	10	6.40E+01
1.00E+03	-0.257396216	40	2.34E+03
1.17E+11	-2	17	1.06E+10
7.43E-01	-0.403374232	3	2.09E+00
3.11E-01	-0.036627888	4	8.85E-01
3.03E+01	-1	8	4.32E+02
2.54E+00	0.423027963	9	1.26E-01
1.11E+00	0.183053298	34	4.60E-01
2.48E+01	0.269996416	18	2.01E-01
4.83E-01	0.249581036	2	3.90E-01
3.72E-01	-0.393529543	11	1.65E+01
4.16E-01	-0.008246432	4	8.11E-01
5.04E-01	-0.149306836	6	1.69E+00
4.45E-09	0.935213881	33	2.34E-06
4.60E-01	-0.097473315	4	1.07E+00
7.42E-01	-0.208548482	5	1.79E+00
4.00E+00	-0.837656466	4	1.04E+01
1.00E+00	-0.025392138	1	6.43E-01
9.72E-01	-0.056103709	4	9.40E-01
8.23E+02	0.263409167	37	1.08E-01
4.39E-01	0.052307922	6	7.59E-01
3.77E-01	-0.052041567	7	1.28E+00
1.05E+01	0.172781449	59	6.23E-01
8.08E-03	1	10	1.90E-03
2.59E+03	-0.062160602	26	1.12E+01
6.32E+00	-0.500471984	9	1.73E+01
9.16E-01	-0.084403411	2	8.03E-01
3.34E+00	-0.398452857	23	4.05E+02
3.86E-01	0.206931138	8	4.02E-01
1.89E+00	-0.323379375	9	6.74E+00
4.11E-01	0.18358544	7	4.51E-01
2.46E-01	0.123144212	6	5.73E-01
1.01E+01	-0.368415548	13	2.33E+01
4.36E-01	-1	2	1.54E+01
6.09E+01	-0.524721891	4	3.96E+00
3.79E-01	-0.564254634	7	1.24E+01
1.21E+02	0.590317997	12	2.97E-02
1.10E-05	0.993706443	19	1.53E-04
7.91E+00	0.05720852	83	6.29E+01
2.45E-01	-0.207669807	9	3.64E+00
1.23E-01	1	6	5.06E-03

9.62E-02	2	3	1.18E-02
1.29E+01	-0.4786557	9	1.54E+01
1.92E+01	0.023436991	8	9.85E-01
2.25E+01	-0.615522417	4	5.24E+00
4.04E-01	-0.043544136	2	7.35E-01
7.69E+02	0.079159908	58	8.14E+00
8.58E-03	0.705799915	10	2.20E-02
1.74E-01	0.370763558	8	1.81E-01
3.01E-01	0.233385498	20	2.71E-01
2.22E-01	-0.013357089	11	1.54E+00
4.66E-01	-0.017132277	4	8.34E-01
1.73E+01	-0.298914626	20	6.57E+01
1.63E-01	0.143980685	7	5.37E-01
1.16E-01	0.091060503	21	1.23E+00
1.75E-01	-0.092299281	17	5.35E+00
4.29E-01	0	2	6.69E-01
2.44E-01	0.165339057	16	5.28E-01
8.67E-01	1	12	1.91E-03
2.12E-01	-0.049229123	28	1.17E+01
1.70E-01	0	9	1.20E+00
1.46E-01	0.102482819	8	6.70E-01
4.39E-01	0.209383654	19	3.51E-01
3.01E-01	-0.014585916	22	4.19E+00
2.87E+01	-0.381780718	15	4.29E+01
6.77E+02	-2	6	1.44E+03
9.46E+05	-0.854511182	27	5.45E+05
2.01E-01	0.176794869	26	4.96E-01
9.28E-01	0.382590955	5	2.23E-01
3.53E-01	0.221365445	3	4.08E-01
6.96E-01	0.109239017	3	5.47E-01
1.52E-01	0	3	7.28E-01
3.64E+00	-0.116703047	8	1.95E+00
3.25E+12	-0.866609944	54	2.44E+11
3.73E+02	-0.163207598	22	2.22E+01
2.14E-02	0.493533143	63	4.51E-05
8.44E-02	0.080830396	35	2.64E+00
1.74E-01	0.313528755	7	2.53E-01
3.53E-01	0	11	1.42E+00
3.32E-01	0.135490397	20	7.44E-01
3.49E-01	0.061215605	7	7.75E-01
3.41E-01	0.001527256	18	2.51E+00
1.09E+00	-0.056143876	8	1.45E+00
6.89E+00	-0.641538889	4	5.67E+00
5.31E-01	-0.095900973	5	1.21E+00
5.77E-01	-0.411802205	2	1.63E+00
1.03E+03	0.056704092	10	9.40E-01
3.69E+00	-0.146053103	9	2.62E+00

1.05E+01	-0.438012693	11	2.18E+01
1.69E+00	0.1391303	5	5.27E-01
2.31E+00	0.533437577	5	1.31E-01
6.55E-01	-0.24821953	5	2.06E+00
2.31E-02	-0.369675599	7	5.22E+00
1.16E-01	-0.193914289	5	1.70E+00
3.33E-01	-0.182521093	7	2.28E+00
3.93E-01	0	6	9.35E-01
3.93E-01	-0.142735331	6	1.65E+00
5.87E-01	-0.146310885	12	4.11E+00
1.54E-02	0.271459716	11	2.61E-01
3.79E-02	1	4	2.59E-02
7.59E+00	-0.259284716	14	1.31E+01
6.81E+01	-0.187775927	17	1.26E+01
1.60E-01	0.483346142	5	1.57E-01
1.92E-03	0.093008734	71	9.53E+00
2.39E+01	-0.07669994	22	8.41E+00
1.73E+03	-0.734633224	12	2.11E+02
5.38E-01	-0.13421181	5	1.38E+00
5.13E-01	0.203764658	7	4.12E-01
3.43E-01	0.232144691	2	4.05E-01
2.58E+01	-0.117115096	16	5.83E+00
4.90E-01	-0.018843357	2	6.97E-01
3.40E-01	-1	4	2.24E+01
3.95E-01	-0.07733926	14	3.28E+00
1.64E+00	0.169584067	13	4.99E-01
3.49E-02	0.554896611	9	6.22E-02
2.72E+01	-0.193586258	11	4.75E+00
1.56E+00	-0.249855442	6	2.52E+00
2.55E+03	-0.324824692	39	6.86E+03
7.28E+03	-0.466439289	26	2.17E+03
1.31E+01	0.102808898	44	2.53E+00
4.38E-01	0.090396807	1	5.27E-01
4.29E-01	0.071482257	2	5.73E-01
4.29E-01	0	2	6.69E-01
4.20E-01	0	3	7.28E-01
4.38E-01	0	1	6.16E-01
4.29E-01	0	2	6.69E-01
4.29E-01	0	2	6.69E-01
4.20E-01	0	3	7.28E-01
4.11E-01	0	4	7.91E-01
4.29E-01	0	2	6.69E-01
4.46E-01	0.114915084	2	5.22E-01
4.55E-01	0.144824489	1	4.80E-01
2.26E-01	2	4	1.81E-03
1.85E-03	1	9	2.22E-03
1.43E-03	2	5	1.46E-03

1.13E-04	2	5	1.17E-03
4.09E-01	0.106371292	9	6.81E-01
9.16E+00	0.00185066	10	1.29E+00
2.33E+00	-0.106581962	52	6.13E+02
2.91E-01	0.138408387	10	5.86E-01
1.37E-01	0.147886007	13	5.83E-01
2.89E-04	0.637481087	22	2.78E-03
7.76E-03	0.374070272	20	6.35E-02
2.83E-02	0.502208524	7	1.10E-01
4.28E-01	-0.151620938	32	8.93E+01
4.81E+01	-0.725689414	15	6.83E+02
1.46E+03	-0.262401303	18	3.01E+01
2.64E+01	-0.358656065	18	7.44E+01
6.76E-01	-0.790504597	3	5.76E+00
1.43E+01	-0.852952473	14	1.19E+03
5.69E+00	-0.439834291	5	4.05E+00
1.69E+02	-0.506395609	15	1.17E+02
8.14E+01	-0.393150245	17	7.93E+01
9.56E-01	0	6	9.35E-01
5.95E-01	-0.257233692	5	2.13E+00
6.16E-01	0.105528721	10	7.09E-01
3.15E+00	0.330410493	9	2.06E-01
5.54E+00	-0.182263264	6	1.93E+00
7.51E-01	-0.348344906	2	1.42E+00
6.52E+03	-0.312538816	9	6.36E+00
6.00E+00	-0.000600747	1	6.16E-01
5.71E+01	-0.210643925	5	1.81E+00
1.27E+02	-0.330539989	13	1.78E+01
6.20E-01	-0.689378981	2	2.98E+00
8.19E-01	-0.065743667	3	8.64E-01
6.04E-01	-0.261232674	2	1.18E+00
4.38E-01	-0.01648115	1	6.33E-01
3.86E+02	-0.477205211	6	6.23E+00
1.44E+01	-0.049670554	10	1.74E+00
4.89E+00	-0.089480783	10	2.19E+00
1.09E+01	-0.269361752	7	3.35E+00
8.13E+02	-0.338181676	11	1.17E+01
5.53E-01	0.032593858	5	7.67E-01
1.45E-09	1	25	8.33E-06
4.21E-01	0.470403076	5	1.64E-01
2.31E-02	0.87349218	6	2.90E-02
3.87E-01	-0.004157591	8	1.13E+00
3.43E-03	0.120097403	46	1.86E+00
4.08E+01	-0.022773871	25	6.09E+00
4.05E-01	-0.214006718	7	2.62E+00
1.37E-01	-0.0334796	4	8.77E-01
8.50E+00	-0.183884738	10	3.78E+00

3.05E-01	-1	8	3.61E+02
5.05E-20	3	25	8.52E-17
6.28E-01	0.433067326	12	8.50E-02
5.45E-01	0.000751071	14	1.81E+00
4.87E-03	0.255297123	36	1.29E-01
1.14E-02	1	15	1.76E-04
9.07E-01	-0.314455572	3	1.66E+00
3.99E+01	-0.760182285	12	2.50E+02
3.66E-02	0.804689394	14	4.03E-03
2.22E-03	2	3	2.69E-03
5.48E-05	0.661073632	38	6.76E-05
1.01E+02	-0.560943886	16	2.54E+02
2.71E+04	-1	13	3.40E+03
8.07E+06	-0.954348824	34	7.74E+07
2.09E-01	0.102833592	18	9.68E-01
1.52E-02	0.464623555	23	1.71E-02
4.96E-01	-0.068478094	3	8.70E-01
4.06E+04	-1	13	1.45E+04
4.32E-01	0.256244562	13	2.69E-01
3.80E-02	0.383491196	14	9.89E-02
1.57E-04	0.317011281	23	9.55E-02
9.99E-03	2	2	1.34E-02
1.08E-01	0.042342807	7	8.42E-01
2.54E-01	0.347821643	2	3.15E-01
4.86E-02	0.040424617	18	1.74E+00
4.19E-01	-0.014239618	24	5.00E+00
5.33E-01	0	3	7.28E-01
6.05E+00	-0.11835536	4	1.14E+00
6.17E+04	-0.5677358	18	5.32E+02
4.62E+00	-0.339228312	12	1.49E+01
8.17E+09	-1	21	1.22E+07
5.52E+03	-0.496839437	22	9.38E+02
9.65E+03	-0.58212364	24	4.89E+03
4.87E-01	-0.061347396	11	2.08E+00
1.24E-01	0.649697199	8	4.63E-02
2.29E-01	0.046165708	7	8.28E-01
1.86E-01	-0.395667767	6	4.51E+00
3.51E-01	0.033321679	3	6.67E-01
1.19E-01	0.487928487	4	1.77E-01
4.90E-01	-0.348610775	36	5.22E+03
6.65E+02	0.138439996	23	7.68E-01
1.44E+00	0.948753534	17	4.78E-04
3.56E-08	0.837350508	36	4.71E-06
2.85E+03	0.423983177	19	4.23E-02
5.47E+10	-2	17	5.54E+08
1.35E+01	-0.70363821	15	5.72E+02
5.36E+01	0.739768028	4	8.16E-02

1.59E+00	0.301775694	2	3.48E-01
7.89E-01	0.263346643	59	4.94E-02
2.53E+00	-0.138104891	7	1.87E+00
3.29E-01	-0.072808311	3	8.80E-01
4.91E-01	0.138100283	6	5.40E-01
4.91E+02	-0.153919583	28	5.02E+01
5.54E-07	1	21	1.37E-06
2.79E+00	-0.007921596	19	2.99E+00
1.06E+00	-0.072457356	19	5.66E+00
1.55E+00	-0.189292753	24	4.17E+01
2.32E+00	0.442178049	13	7.12E-02
5.07E-02	0.290681318	12	2.20E-01
9.44E+00	0.567089752	8	6.93E-02
3.25E-01	0.097297103	6	6.35E-01
8.26E-01	-0.082811125	5	1.15E+00
3.84E-01	0.196371801	2	4.37E-01
4.44E-01	0	1	6.16E-01
6.68E-01	-0.010776691	6	9.76E-01
3.71E+00	-0.473088444	3	2.51E+00
7.01E-01	0.163919536	3	4.74E-01
1.78E+00	-0.028730491	4	8.64E-01
7.75E-01	-0.192461217	2	1.02E+00
2.57E+02	-0.435392004	8	9.25E+00
9.76E+04	-2	7	1.82E+04
6.09E+00	-0.77092343	3	5.47E+00
5.64E-01	-0.434120827	2	1.71E+00
4.24E-01	-0.034344958	3	7.96E-01
2.72E-01	0.187608318	7	4.43E-01
2.68E+00	0.678754125	3	1.23E-01
3.92E-01	-0.018519314	3	7.64E-01
3.18E-01	-0.697387959	4	6.73E+00
4.33E-01	-0.013443035	10	1.41E+00
4.30E-01	0	3	7.28E-01
1.90E+02	-0.273449643	27	2.16E+02
3.17E+00	0.109150955	8	6.48E-01
6.00E+04	-2	11	1.09E+05
2.36E+02	-2	4	1.23E+03
6.85E+04	-2	8	1.43E+05
1.92E+03	-3	6	4.46E+04
3.17E+02	-3	4	1.95E+03
8.27E+01	-2	4	3.07E+02
5.96E+01	-2	5	2.03E+02
8.83E+01	-1	4	3.73E+01
4.80E+05	-1	19	5.81E+04
1.11E+07	-1	31	7.19E+07
1.56E+08	-0.866002015	36	4.60E+07
9.49E-01	-0.109104993	2	8.48E-01

4.71E-01	-0.103019098	6	1.41E+00
6.22E+04	-0.368445562	27	7.77E+02
6.47E+00	-0.176034093	9	3.07E+00
1.32E+03	-0.339036513	12	1.49E+01
5.06E+02	-0.639151332	14	2.34E+02
2.22E-02	0.66928664	8	4.21E-02
4.91E-04	2	5	1.74E-04
3.59E-04	2	11	1.04E-04
1.24E+09	-0.030641795	138	4.05E+05
2.86E+01	0.150158465	13	5.74E-01
6.39E-01	-0.178274695	2	9.84E-01
4.45E+00	-0.601878117	2	2.46E+00
1.37E+07	0.695246167	35	7.20E-05
3.94E+02	-0.351054789	33	2.63E+03
1.36E+00	-0.214944598	14	9.34E+00
1.03E+00	-0.042413628	7	1.23E+00
1.88E-01	-0.079598018	7	1.45E+00
3.81E-02	0.225506908	66	1.25E-01
3.65E-01	0.099176262	4	5.83E-01
3.01E-02	0.181490541	8	4.55E-01
3.25E-01	0.350464661	6	2.32E-01
1.21E-05	3	6	1.26E-05
6.46E-06	2	5	1.30E-04
1.40E-03	1	17	8.07E-05
1.52E-01	0.47634605	8	1.08E-01
2.40E-05	2	12	2.29E-05
1.14E+00	0.027566983	3	6.77E-01
4.20E-01	-0.251982843	3	1.41E+00
1.48E-03	0.538827817	18	1.60E-02
3.23E-01	1	2	6.83E-02
2.36E+14	-0.301425783	93	6.37E+08
6.97E+04	-0.638247891	35	5.81E+05
2.78E+00	-0.45921895	7	7.77E+00
4.22E-01	-0.024294341	2	7.05E-01
3.77E-01	0.018244178	9	1.09E+00
4.20E-01	0	3	7.28E-01
3.52E-01	-0.026910118	30	1.03E+01
4.55E-01	-0.025242815	4	8.55E-01
2.01E-01	0.150916602	10	5.45E-01
2.45E+00	-0.071551422	8	1.57E+00
9.16E-05	0.428805784	46	2.03E-03
6.21E-01	-0.222308284	6	2.26E+00
3.38E+02	-0.701547797	17	1.26E+03
1.13E+00	-1	4	1.97E+01
5.02E-02	-0.27572421	17	2.77E+01
3.46E-01	-0.856898026	8	7.24E+01
4.36E-01	-0.001713771	3	7.31E-01

5.49E-01	0.195170228	8	4.26E-01
4.34E-01	0	2	6.69E-01
4.46E+00	-0.453276311	10	1.80E+01
2.55E+02	-0.381578617	30	2.00E+03
5.28E-02	0.875307338	7	2.11E-02
1.45E-02	2	2	9.10E-03
2.73E-07	2	13	5.65E-06
8.58E-02	0.258317218	20	2.10E-01
3.77E-01	-0.011337802	2	6.86E-01
2.96E-03	0.543945596	35	9.58E-04
2.33E-01	-0.05865783	9	1.64E+00
1.63E+00	-0.038970682	13	2.22E+00
3.23E-01	0	15	1.98E+00
1.19E+00	0.076723867	4	6.25E-01
1.18E+01	-0.124769056	20	1.09E+01
2.41E-01	0.035361447	26	3.13E+00
5.16E-01	-0.148437763	12	4.17E+00
1.07E-01	0.187742993	9	4.41E-01
5.78E-01	0.015042246	3	6.99E-01
2.01E+01	-0.257092202	7	3.17E+00
3.14E+00	-0.218709857	7	2.68E+00
4.31E-01	-0.114652518	10	2.53E+00
4.31E-01	-0.014317506	2	6.90E-01
9.04E-01	-0.078191249	10	2.05E+00
2.63E+00	-0.377549301	12	1.93E+01
4.64E+00	-0.599307883	5	7.10E+00
3.60E+00	0.087875517	5	6.31E-01
4.57E-01	-0.263120897	4	1.77E+00
2.01E-01	-0.165817756	4	1.32E+00
3.03E+00	-0.60278121	5	7.19E+00
3.35E+00	-0.592168003	3	3.43E+00
5.84E+00	-0.474243892	6	6.16E+00
2.21E+00	-0.754478045	2	3.43E+00
8.60E-01	-0.317766981	9	6.54E+00
2.50E+00	-0.531440127	7	1.07E+01
2.15E-02	0.748668503	8	2.86E-02
2.24E-11	0.855786543	61	1.71E-09
1.20E-01	0.402912034	11	1.15E-01
6.31E-01	0.333933834	48	1.44E-02
1.46E+02	-0.24776385	20	3.88E+01
6.04E-06	1	23	2.61E-05
6.59E+00	-1	8	1.48E+02
8.43E-02	0.210051475	19	3.49E-01
5.24E-01	0.063632672	6	7.26E-01
4.29E-01	0.089155752	2	5.52E-01
4.02E-01	0.001995953	5	8.54E-01
4.32E-10	2	14	1.33E-07

1.12E+01	-0.072577953	13	2.82E+00
1.18E+00	0.045718451	7	8.30E-01
6.32E+00	-0.096154584	6	1.37E+00
4.87E-01	-0.058042763	3	8.47E-01
2.62E-11	1	25	1.52E-06
5.68E-01	0.580954079	5	1.11E-01
3.35E-03	0.189927433	46	3.98E-01
3.43E-01	0.127186412	1	4.95E-01
4.06E-01	0.04404663	2	6.08E-01
6.19E-03	0.546585318	16	2.06E-02
4.02E-01	0.492384093	5	1.52E-01
4.38E-01	0	1	6.16E-01
5.30E+04	-1	13	2.27E+03
4.98E+01	-0.300027164	11	9.23E+00
3.91E+00	-0.086346852	9	1.90E+00
3.83E+00	-0.115187475	2	8.59E-01
1.08E+01	-0.685134607	4	6.48E+00
2.56E+00	-0.461852594	3	2.44E+00
7.62E-01	-0.328116333	3	1.72E+00
8.27E-01	0.406528326	7	1.68E-01
2.20E-03	0.695152804	16	5.83E-03
7.84E-01	-0.054736215	3	8.40E-01
2.47E+01	-0.756856566	4	8.08E+00
1.81E+01	-0.741015348	6	1.78E+01
4.65E-01	-0.4906672	2	1.94E+00
4.94E+00	-0.356673364	5	3.02E+00
4.70E-01	0	1	6.16E-01
1.46E+03	-0.058748774	11	2.05E+00
6.08E+05	-0.101996514	28	2.43E+01
1.43E+01	-0.824203442	5	1.57E+01
1.46E+01	-1	2	1.01E+01
6.09E+00	-0.38244052	7	5.53E+00
8.71E+00	-0.185415579	5	1.65E+00
1.11E+00	-0.856948814	3	6.86E+00
8.41E-01	-0.545696512	1	1.57E+00
1.37E+01	-0.529212038	6	7.67E+00
1.43E+00	-0.351723388	6	3.79E+00
5.89E+00	-0.183781178	5	1.64E+00
1.08E+01	-0.863361779	6	2.89E+01
1.66E+00	-0.26447247	3	1.45E+00
2.42E-01	0.279235942	2	3.66E-01
2.35E-01	0.382573537	5	2.23E-01
4.27E-01	0.005346123	2	6.62E-01
1.68E-01	0.147852577	5	5.11E-01
1.21E-01	0.161490674	22	5.81E-01
3.86E-01	0.004880244	6	9.17E-01
8.93E-03	0.622445847	33	3.72E-04

1.86E-01	-0.318600623	13	1.63E+01
1.70E-01	0.059261875	23	1.94E+00
3.61E-01	0.081997444	9	7.75E-01
3.74E-01	0.018744426	17	1.98E+00
4.22E-01	-0.002302821	3	7.32E-01
3.61E+01	-0.183987143	17	1.22E+01
3.35E+06	0.063888241	86	5.72E+01
1.09E+03	0.368162548	24	4.84E-02
4.28E-01	-0.002761658	2	6.73E-01
4.49E-03	0.555838107	15	2.26E-02
3.16E-32	1	113	7.44E-28
1.36E-21	2	49	1.01E-19
2.87E-01	0.156759108	7	5.07E-01
2.97E+02	-2	3	2.31E+02
2.56E+00	-0.517489219	2	2.05E+00
6.54E+00	-0.135776875	10	2.86E+00
2.93E+01	-0.31361044	6	3.25E+00
2.75E-01	0	12	1.54E+00
8.91E+00	-0.452586636	11	2.39E+01
2.27E-03	0.482012699	18	2.73E-02
3.27E-01	-0.341455241	7	4.61E+00
3.04E-12	2	19	1.74E-08
8.59E-01	0.579432328	16	1.56E-02
9.93E-02	0.480766267	13	5.40E-02
9.05E+00	-0.077066527	21	7.50E+00
1.42E+00	-0.475747316	1	1.39E+00
7.84E+00	-1	3	1.96E+01
5.42E-02	0.253685484	24	1.94E-01
9.05E+10	-1	31	4.25E+10
4.77E+02	-1	13	3.37E+03
1.61E+06	-1	20	6.70E+05
4.58E+02	-0.145112576	13	4.73E+00
3.59E-01	-0.047525769	10	1.72E+00
1.73E+03	0.250624141	46	1.04E-01
2.25E-01	0.738215828	5	6.38E-02
1.55E-01	0.442842652	18	3.95E-02
9.18E-04	0.617919789	20	5.13E-03
1.09E-01	-0.127772543	8	2.06E+00
4.54E+05	-2	10	9.15E+04
3.16E+02	-0.80464749	5	1.46E+01
2.95E+01	0.127322287	4	5.35E-01
3.99E+01	0.028775449	14	1.47E+00
3.30E-05	2	7	1.85E-04
3.15E-02	-0.092681419	12	2.87E+00
2.05E+01	0.887100633	11	5.60E-03
1.93E-02	1	7	2.03E-03
3.59E-01	0.109223191	5	5.85E-01

3.01E-02	0.613376342	15	1.42E-02
6.23E-03	2	3	8.81E-03
1.29E-01	0.577154925	6	9.42E-02
4.38E-01	0	1	6.16E-01
4.23E-01	0.006653572	3	7.15E-01
7.60E-01	0.467915265	16	4.03E-02
1.38E+01	-0.037645146	37	2.45E+01
6.77E-01	0.431251284	16	5.50E-02
2.99E-02	0.42549302	10	1.11E-01
3.48E-01	1	3	5.13E-02
5.74E-10	3	18	1.02E-10
2.59E-01	0.45666615	9	1.05E-01
1.61E+04	-0.646256991	20	2.36E+03
3.28E+08	-0.330801199	79	8.68E+07
1.51E+06	-0.78924266	17	2.75E+03
4.95E-01	0.026034942	2	6.33E-01
1.42E+07	-0.026302028	77	9.10E+02
1.88E+01	-0.261543845	9	4.85E+00
1.96E+00	-0.700181653	8	3.37E+01
8.22E+02	-0.523682027	5	5.44E+00
3.58E-03	0.52378326	25	6.29E-03
9.48E-02	0.796535434	4	6.85E-02
1.50E-01	0.955352664	9	7.35E-03
3.06E-02	0.785527024	22	5.29E-04
1.70E-03	0.424522324	18	4.69E-02
1.62E+01	-0.35712225	10	1.03E+01
6.56E-02	0.021377497	16	1.80E+00
2.53E-04	2	5	5.05E-04
2.70E-01	0.307391038	43	3.51E-02
2.05E+01	-1	17	2.10E+04
8.93E+01	-0.949590556	15	4.15E+03
3.86E+00	-0.375532629	10	1.15E+01
5.40E+02	-0.600937058	12	8.61E+01
4.91E-05	2	7	5.78E-05
1.31E+00	0.234873507	12	3.20E-01
8.51E+00	-0.992490913	1	3.37E+00
4.11E+00	-0.373008067	3	1.93E+00
2.03E-03	1	24	1.24E-05
1.70E-01	0.405713218	2	2.78E-01
9.17E-04	0.970634931	14	1.14E-03
3.73E-01	-0.272706251	7	3.40E+00
3.85E-01	-0.211229144	21	3.18E+01
3.22E-01	0.257085778	7	3.25E-01
7.59E+00	0.237841806	13	3.07E-01
1.17E+01	-0.328105819	11	1.10E+01
6.69E-01	-0.269750304	1	9.77E-01
1.00E+00	-0.169891014	4	1.33E+00

4.82E+00	-0.340989322	6	3.63E+00
3.36E+00	-0.315977859	6	3.28E+00
8.13E-04	1	7	3.94E-03
8.14E-14	2	26	4.94E-10
3.37E-01	0.714536772	22	1.17E-03
8.45E-01	0.426431822	19	4.13E-02
8.97E+00	0.301528371	7	2.67E-01
2.48E+02	-0.06411265	19	5.21E+00
7.91E-01	1	4	1.61E-02
5.20E-01	0.249595324	2	3.90E-01
5.99E-02	0.594877142	8	6.05E-02
1.42E+02	-0.485679516	11	2.94E+01
1.33E+02	-0.865159002	8	7.54E+01
2.56E+02	-0.411519846	18	1.22E+02
2.10E+00	-0.049757788	9	1.57E+00
2.24E+00	-0.679428667	2	2.91E+00
8.29E-01	-0.56271278	5	6.24E+00
3.81E+03	-0.328916228	16	3.53E+01
4.74E+00	-0.146409075	5	1.44E+00
2.03E+01	-0.235659465	8	3.49E+00
2.67E+02	0.058404388	8	8.31E-01
1.08E+00	0.937773734	4	4.44E-02
5.47E-01	0.430199084	3	2.36E-01
7.81E+00	0.314480658	3	3.19E-01
1.57E+02	-0.172037068	3	1.14E+00
2.17E+00	-0.233344828	5	1.96E+00
6.51E-01	-0.034518071	5	9.71E-01
7.57E+04	-0.349751398	32	2.02E+03
1.21E+01	-0.02418554	29	9.04E+00
7.86E-01	0.149402461	11	5.59E-01
4.42E-01	0.044684605	1	5.70E-01
3.93E-01	1.24E-05	6	9.35E-01
3.90E+00	-0.216712267	6	2.21E+00
4.89E-01	-0.021272169	2	7.01E-01
8.01E-01	-0.144599143	5	1.43E+00
1.13E+01	-0.697147658	11	1.10E+02
9.53E-01	-0.220366312	6	2.25E+00
2.17E+00	-0.254598913	16	1.88E+01
1.09E+00	-0.352878064	9	7.89E+00
2.95E-01	0.197937286	9	4.18E-01
1.59E-01	0.378313028	24	4.28E-02
6.63E-01	-0.085066587	20	7.24E+00
4.28E-01	0	5	8.60E-01
2.86E-01	0.010943163	21	2.91E+00
4.77E-01	-0.005498738	2	6.77E-01
1.44E+00	0.179221314	4	4.56E-01
5.03E-01	0.0465392	20	1.86E+00

7.08E-01	-0.024411739	11	1.65E+00
3.90E-01	-0.006266069	7	1.04E+00
1.19E-02	0.390547767	30	2.11E-02
1.05E-02	0.692998355	10	2.37E-02
9.94E-02	0.24464922	6	3.53E-01
2.84E+01	0.008956215	81	3.50E+02
1.38E-01	0.331210827	6	2.50E-01
4.20E-01	0	3	7.28E-01
3.45E-01	0	12	1.54E+00
4.26E-01	0	2	6.69E-01
3.20E-01	-0.011496921	5	8.95E-01
9.50E-02	0.01145193	20	2.67E+00
9.40E-01	0.259935773	10	2.90E-01
6.90E-01	-0.005799843	3	7.39E-01
1.06E-01	0.29433545	10	2.38E-01
4.23E+00	-0.254540498	5	2.11E+00
1.54E+00	0.199276756	8	4.18E-01
1.71E+00	0.494421276	5	1.51E-01
2.07E+00	0.713486185	6	5.48E-02
4.14E-01	0.007671971	4	7.72E-01
4.38E-01	0	1	6.16E-01
4.42E-01	0.023535365	4	7.36E-01
4.38E-01	0.017771446	1	5.97E-01
4.11E-01	0	4	7.91E-01
4.38E-01	0	1	6.16E-01
4.43E-01	0	4	7.91E-01
5.49E-01	-0.088464257	3	9.17E-01
4.42E-01	-0.01379377	3	7.54E-01
3.47E+00	-0.344581208	4	2.28E+00
1.44E+01	-0.187118586	5	1.66E+00
3.58E-02	0.350986871	5	2.50E-01
3.93E-01	0.67865959	4	9.84E-02
9.31E-01	-0.371311476	5	3.18E+00
2.10E+00	-0.825647614	6	2.49E+01
5.39E-01	-0.151210446	8	2.31E+00
4.37E-01	-0.01866448	2	6.97E-01
1.10E+00	-0.12276044	6	1.52E+00
8.12E-01	-0.003535907	7	1.03E+00
2.64E+00	-0.266683838	6	2.70E+00
8.17E-01	-0.249007342	6	2.52E+00
2.40E+00	-0.089490384	6	1.33E+00
1.25E+01	-0.293605033	9	5.75E+00
1.77E+02	-0.335106324	13	1.84E+01
1.06E+00	-0.112085638	4	1.12E+00
2.03E+03	-0.33650651	9	7.23E+00
4.14E-01	-0.006664757	6	9.60E-01
1.54E+00	-0.06518509	5	1.08E+00

1.89E+01	-0.336618403	5	2.82E+00
5.75E+00	-0.208610164	3	1.26E+00
1.00E+01	-0.208329514	4	1.50E+00
4.48E-01	-0.009973748	3	7.47E-01
4.34E-01	-0.060367233	3	8.52E-01
1.42E+01	-0.26467289	7	3.28E+00
9.83E-01	0.29211441	3	3.39E-01
4.61E+00	-0.541224938	8	1.55E+01
2.84E+00	0	3	7.28E-01
4.52E+02	-0.957599408	9	1.99E+02
4.11E-01	-0.072104872	4	9.87E-01
4.38E-01	-0.019988462	1	6.37E-01
1.02E+03	-0.170834129	7	2.17E+00
4.40E-01	-0.001860685	2	6.72E-01
4.49E-01	0	1	6.16E-01
1.75E+00	-0.152007582	3	1.08E+00
8.48E+00	-0.343639443	10	9.54E+00
6.32E+01	-0.622960913	8	2.31E+01
1.04E+00	0	6	9.35E-01
1.44E+03	-1	9	2.59E+02
1.51E+01	-0.344526762	9	7.55E+00
2.87E+00	-0.614129534	6	1.07E+01
5.14E-01	0.140132616	3	5.04E-01
4.11E-01	0.058166409	4	6.62E-01
4.09E-01	0.013665446	4	7.58E-01
3.08E-04	1	6	3.48E-03
2.22E-03	0.574954839	16	1.62E-02
5.62E-01	-0.086367518	8	1.68E+00
1.99E+01	-0.298360676	21	8.13E+01
8.19E+00	0.037901726	19	1.91E+00
7.13E-02	0.066220494	55	9.90E+00
6.07E-02	0.109744159	75	6.24E+00
2.75E-01	0.124630636	8	6.01E-01
7.92E-01	0.531316187	3	1.81E-01
4.14E-01	0.184398534	11	4.49E-01
3.50E-01	0.018479796	14	1.58E+00
4.03E-01	0.003217243	5	8.50E-01
4.29E-01	0	2	6.69E-01
4.31E-01	0	2	6.69E-01
3.38E-01	0.084064484	16	1.05E+00
3.76E-01	0.107014709	8	6.55E-01
3.10E-01	0.003738285	17	2.27E+00
5.62E-01	-0.049285796	6	1.14E+00
2.75E-01	0.245943217	5	3.61E-01
2.59E-01	0.132611881	20	7.66E-01
1.44E-01	1	2	7.20E-02
2.73E-01	0.030602415	9	1.02E+00

7.75E-02	1	5	1.26E-02
8.03E-05	1	24	1.85E-05
3.11E-01	0.031100549	12	1.25E+00
2.51E-01	0.003310514	6	9.22E-01
1.64E+00	-0.991077967	5	2.82E+01
9.09E-01	-0.716507749	4	7.14E+00
4.38E-01	-0.286566666	1	1.01E+00
4.85E-01	-0.002208417	6	9.43E-01
4.33E-01	0	2	6.69E-01
1.06E+00	0	6	9.35E-01
5.07E-01	-0.067667551	6	1.22E+00
4.38E-01	0.02771869	1	5.87E-01
4.02E-01	0.235731934	5	3.75E-01
8.81E-01	-0.056560956	8	1.46E+00
1.30E+07	-0.868809822	24	1.58E+05
1.26E+00	-0.371150585	4	2.47E+00
7.97E-01	-0.158564269	8	2.40E+00
6.76E+02	-0.666511737	12	1.34E+02
4.38E-01	0	1	6.16E-01
9.03E+02	-0.291968322	11	8.78E+00
3.50E+07	-0.595489879	32	9.70E+04
3.68E-01	0.052103407	9	9.09E-01
3.85E+00	-0.073452187	6	1.25E+00
4.47E-01	-0.004199643	1	6.20E-01
1.27E+00	-0.613059185	6	1.07E+01
4.11E-01	0	4	7.91E-01
4.41E-01	0.110827125	9	6.65E-01
4.51E-01	0	8	1.10E+00
4.29E-01	0	2	6.69E-01
1.47E-08	1	31	1.12E-07
3.42E-02	0.336746236	21	8.71E-02
3.76E-01	0	8	1.10E+00
2.03E-01	0.169997686	14	5.01E-01
5.22E-01	0.064922586	35	3.47E+00
4.04E-01	0.000914887	5	8.57E-01
7.58E-01	-0.127547004	5	1.35E+00
2.76E-01	-0.301131728	3	1.60E+00
5.34E-01	-0.062879706	20	5.76E+00
8.73E-01	0.164481203	5	4.82E-01
1.77E+00	-0.126477806	4	1.17E+00
4.83E+04	-0.657331549	14	2.69E+02
2.82E+02	-0.75299896	18	3.04E+03
4.38E-01	0	1	6.16E-01
3.68E-01	0	9	1.20E+00
3.85E-01	0	7	1.02E+00
9.48E-02	0.218410039	79	1.28E-01
4.29E-01	0	2	6.69E-01

4.61E-01	0.03676752	7	8.63E-01
2.93E-01	0.599110971	5	1.04E-01
6.12E-02	1	2	5.53E-02
2.46E-01	0.108714812	7	6.28E-01
3.78E+03	-0.325763706	22	1.38E+02
1.14E+00	-0.004701848	2	6.76E-01
4.34E+09	-0.969897359	30	1.24E+07
5.80E+02	-0.666037174	16	6.21E+02
1.37E+04	-1	11	1.13E+04
4.85E-01	-0.044897876	2	7.38E-01
4.81E-01	0.364969563	4	2.58E-01
2.38E-01	0.361196342	9	1.75E-01
5.16E-04	1	17	1.10E-04
8.89E-10	1	43	2.65E-09
4.32E+00	-0.251224802	27	1.60E+02
4.77E+00	-1	3	1.15E+01
3.84E+01	-0.823543304	4	9.92E+00
4.38E-01	0	1	6.16E-01
5.20E-01	-0.09531536	2	8.23E-01
4.23E-01	0	3	7.28E-01
6.29E-01	-0.184765893	10	3.80E+00
4.02E-01	0	7	1.02E+00
2.25E-02	0.737923006	11	1.42E-02
2.18E+00	-0.014826005	3	7.56E-01
7.41E-01	-0.116931112	7	1.71E+00
5.74E+01	-0.672449737	7	2.00E+01
1.60E-02	0.191923705	39	3.90E-01
4.61E-01	-0.013558271	67	2.34E+02
4.60E+00	-0.305950073	7	3.94E+00
3.41E-01	-0.047913399	16	3.24E+00
4.11E-01	0	4	7.91E-01
4.71E-01	-0.112696963	10	2.51E+00
1.17E+00	-0.148895728	5	1.45E+00
5.94E+03	-2	9	3.99E+03
4.47E-01	-0.010221332	4	8.16E-01
4.62E+00	-0.61135782	7	1.52E+01
7.02E+01	-0.471419709	10	2.00E+01
7.20E+03	-1	10	2.83E+03
4.32E-01	0	1	6.16E-01
7.48E-01	-0.044261895	6	1.11E+00
9.35E+02	-1	9	4.40E+02
4.04E+00	-0.085567307	8	1.68E+00
2.70E+01	-0.580836553	6	9.41E+00
1.36E+04	-0.579714403	11	5.29E+01
8.79E-01	-0.192366485	5	1.69E+00
1.45E+03	-0.912934757	10	2.57E+02
1.64E+03	-0.672772163	7	2.00E+01

1.63E+01	-0.925454635	4	1.36E+01
1.72E+00	-0.413622606	5	3.69E+00
1.09E+00	-0.16267461	10	3.35E+00
7.19E-01	-0.07973802	7	1.45E+00
4.01E-01	-0.015954451	20	3.55E+00
4.03E-01	0	5	8.60E-01
1.54E+00	0.180455186	26	4.73E-01
4.24E+01	-0.842879989	7	4.25E+01
3.35E+01	-1	7	1.45E+02
2.89E+01	-0.404197105	12	2.31E+01
3.53E-01	0.142665286	24	7.45E-01
5.86E-01	-0.032141752	4	8.73E-01
8.38E+00	0.391470102	4	2.38E-01
3.59E-01	0.046025695	11	1.06E+00
4.08E-01	0	5	8.60E-01
9.71E-01	0.015866007	24	3.47E+00
8.15E-01	-0.203805906	8	2.99E+00
3.68E+02	-0.302245929	18	4.38E+01
1.57E-01	0.214740515	7	3.93E-01
1.50E-01	0.791951615	4	6.95E-02
4.29E-01	0	2	6.69E-01
4.02E-01	0	5	8.60E-01
4.11E-01	0	4	7.91E-01
5.90E-01	0.230652575	18	2.91E-01
9.44E-01	0.176988314	11	4.70E-01
4.53E+00	-0.213352146	11	5.37E+00
6.40E-01	-0.038093663	6	1.09E+00
7.68E-01	0.149888027	12	5.66E-01
5.88E+00	-0.526388823	2	2.09E+00
1.03E+07	-0.991685514	15	5.82E+03
7.12E-01	0.054692222	7	7.98E-01
2.80E-01	0.163911347	3	4.74E-01
7.85E-01	-0.064957353	7	1.35E+00
1.02E+03	-1	9	3.23E+02
4.38E-01	-0.019494085	2	6.98E-01
4.38E-01	0	1	6.16E-01
8.89E-02	0.240261633	32	1.86E-01
4.23E-01	0.02698238	9	1.04E+00
2.71E+00	-0.122315665	13	4.02E+00
1.10E+00	-0.328579003	8	5.49E+00
2.10E-01	0.05768763	28	2.63E+00
4.35E-01	0	1	6.16E-01
4.49E-01	-0.030433116	3	7.88E-01
3.16E-22	1	63	1.15E-17
1.48E-03	0.633828882	23	2.37E-03
2.62E+00	-0.1594682	10	3.29E+00
2.30E+00	-0.394294895	6	4.48E+00

3.97E-01	-0.000774201	6	9.38E-01
2.59E-01	0.224845096	5	3.89E-01
5.14E-01	0.293216108	3	3.38E-01
2.72E-06	0.710706427	40	1.68E-05
8.83E-03	0.976639865	13	1.56E-03
4.06E-01	0.038787395	6	8.01E-01
6.24E-01	0.007648667	4	7.73E-01
3.60E-01	-0.183804236	23	3.31E+01
1.20E+00	-0.835445638	2	4.08E+00
3.43E+00	0.070172588	11	9.16E-01
3.85E-01	0	7	1.02E+00
3.38E-01	0.494911815	4	1.73E-01
1.31E+02	0.174428231	23	5.05E-01
5.04E+12	-0.010742619	128	4.71E+04
5.65E-01	0.123074599	10	6.40E-01
4.38E-01	0.021369175	1	5.93E-01
4.24E-01	0.04029913	2	6.13E-01
6.66E-01	0.207796096	16	3.68E-01
4.82E-01	-0.000516214	13	1.68E+00
4.65E-06	1	32	1.57E-09
1.02E+00	0.026554723	11	1.20E+00
4.20E-01	-0.00298397	3	7.33E-01
3.72E-01	-0.179509106	8	2.65E+00
4.42E+00	-0.063235618	11	2.11E+00
1.49E+00	-0.446983242	7	7.36E+00
2.94E+09	-0.870499515	32	7.37E+06
7.11E+03	-0.599262866	16	3.52E+02
3.54E-01	-0.006643868	5	8.80E-01
1.05E-04	0.521898574	35	1.40E-03
3.03E-01	0.047363722	8	8.77E-01
5.95E-01	0.185659346	9	4.46E-01
2.49E-02	1	3	4.82E-02
1.30E-01	0.153137271	4	4.94E-01
1.28E+00	0.09056728	10	7.73E-01
2.94E+00	-0.226377386	15	1.23E+01
1.87E+02	-0.48084653	5	4.68E+00
1.02E+00	0.130165422	11	6.30E-01
2.47E+00	0.189536774	12	4.34E-01
5.24E-01	0.115921578	9	6.47E-01
5.22E-01	-0.031586502	6	1.06E+00
4.30E-01	-0.000462507	2	6.70E-01
3.27E-01	0.198428657	4	4.30E-01
4.68E+00	0.015268712	6	8.80E-01
1.09E+03	-0.519024174	8	1.39E+01
6.62E-01	-0.042535835	5	9.99E-01
7.79E-01	-0.092084341	6	1.35E+00
3.97E-01	-0.012445028	11	1.53E+00

1.58E-01	0.115513268	13	7.35E-01
2.50E+00	0.06662008	7	7.56E-01
5.24E-01	-0.05091775	5	1.03E+00
2.58E+02	-0.599716675	16	3.53E+02
7.00E+01	-0.885518221	5	1.95E+01
1.47E+00	-0.261172009	5	2.16E+00
1.81E+04	0.176066105	79	6.13E-01
6.47E-01	0.217632833	3	4.12E-01
4.96E-01	0.0116278	4	7.63E-01
7.31E+06	-0.729283136	26	6.66E+04
3.20E+01	-0.34446961	7	4.67E+00
2.56E-02	0.338072193	31	4.28E-02
4.07E-01	0.214710563	7	3.93E-01
1.22E+04	-2	8	2.12E+03
1.47E+03	-3	5	1.27E+04
6.84E-01	-0.064995861	8	1.52E+00
4.11E-01	0	4	7.91E-01
4.20E-01	0	3	7.28E-01
4.35E-09	0.536733168	86	3.18E-07
3.90E-01	-0.101239591	7	1.59E+00
1.13E+05	-0.64877425	23	7.52E+03
3.33E-01	0.185147688	1	4.48E-01
4.42E-04	1	9	6.76E-04
1.47E-03	2	3	3.19E-03
2.03E-01	0.078227932	19	1.28E+00
4.71E-01	0.174225775	6	4.68E-01
1.69E-04	1	17	1.28E-04
4.20E-01	0.015353624	3	6.99E-01
2.97E-01	0.061339608	20	1.60E+00
4.22E-01	0.009192248	4	7.69E-01
3.27E-03	1	9	4.33E-04
1.65E+00	-0.529664228	6	7.68E+00
4.83E-01	-0.08984575	3	9.20E-01
1.58E+00	0.13239306	7	5.65E-01
7.64E-01	0.504969627	12	5.25E-02
3.59E-01	0.192776338	7	4.33E-01
4.29E-03	0.731528171	25	4.61E-04
3.96E+00	-0.098434649	5	1.22E+00
2.45E+01	-0.323683405	15	2.69E+01
6.09E-01	0	6	9.35E-01
6.00E-01	0	4	7.91E-01
3.53E-05	0.752982676	30	9.71E-05
2.56E+00	-0.332035364	10	8.92E+00
1.81E-01	-0.202081933	21	2.88E+01
3.09E-01	0.247913296	10	3.11E-01
4.43E-01	0	1	6.16E-01
5.15E-01	-0.00554971	6	9.56E-01

1.52E+00	-0.092133006	6	1.35E+00
7.06E+00	-0.38829666	5	3.38E+00
1.53E+05	-1	11	7.31E+02
4.20E-01	-0.246811627	7	3.03E+00
6.57E+06	-0.433976623	51	1.56E+06
4.78E-01	-0.17445072	1	8.30E-01
3.85E-01	0.025796264	7	9.06E-01
2.01E-02	0.185990098	13	4.44E-01
3.83E-01	0	3	7.28E-01
1.74E-01	0.095276991	10	7.52E-01
2.67E-01	0.132611382	6	5.52E-01
3.27E-02	0.283662675	14	2.11E-01
2.51E-01	0.264966217	10	2.82E-01
4.04E-01	-0.005112661	5	8.75E-01
4.27E+09	-0.591437838	57	5.93E+08
6.84E-01	0.082963625	13	9.27E-01
5.41E-13	2	31	1.04E-10
1.46E-01	0.148824189	6	5.17E-01
1.55E-02	0.052371244	8	8.55E-01
4.78E-02	0.33870302	7	2.27E-01
2.94E-01	0.251898933	4	3.65E-01
3.43E-03	0.7474381	15	4.83E-03
7.80E-01	-0.181352159	4	1.38E+00
3.11E-01	0.20510038	23	3.53E-01
5.03E-03	0.963238578	6	2.03E-02
8.88E-05	2	11	6.40E-05
1.26E+01	0.085208187	17	1.09E+00
2.26E+01	-0.027122881	21	4.38E+00
4.47E-01	-0.277580413	3	1.50E+00
2.08E+02	-0.116780421	10	2.57E+00
6.93E+00	-0.135835921	9	2.48E+00
1.73E-01	0.492052	6	1.32E-01
2.09E+00	0.024674054	11	1.22E+00
1.32E+00	0.590690328	4	1.29E-01
4.59E-01	0.247882988	8	3.29E-01
3.68E+02	-0.284158418	10	6.76E+00
1.60E+00	0.198569753	5	4.27E-01
1.74E+02	-0.094401134	13	3.29E+00
4.42E+00	-0.336813762	11	1.16E+01
3.59E-01	0.081284817	7	7.09E-01
7.72E-02	0.473208503	8	1.10E-01
1.04E-04	2	6	5.11E-04
1.84E-02	1	7	1.62E-03
5.53E+00	0.304260817	10	2.24E-01
5.51E+00	0.441309716	5	1.82E-01
2.57E+04	-0.520154802	28	8.26E+03
5.10E-06	1	32	1.41E-07

4.42E-01	0	1	6.16E-01
2.95E-01	0.050616105	7	8.12E-01
2.62E-04	2	10	1.45E-04
7.29E-01	0.012088221	2	6.52E-01
1.80E+02	-0.825725437	4	9.98E+00
4.14E+01	-2	3	4.25E+01
3.85E-01	-0.000535456	7	1.02E+00
3.73E+01	-0.19223088	18	1.55E+01
2.01E+00	-0.250514792	11	6.78E+00
2.55E-11	1	55	9.39E-11
2.96E+00	0.403655542	31	1.57E-02
7.25E+00	0.085755331	9	7.60E-01
1.22E-03	1	22	1.78E-05
2.74E+01	0.094962029	14	8.86E-01
5.02E+00	0.191608997	5	4.38E-01
4.29E+03	0.374924281	12	1.25E-01
2.09E+00	0.2443156	16	2.70E-01
2.11E-01	-0.002124508	21	3.35E+00
1.88E-03	1	9	1.58E-03
4.10E+04	-1	12	9.07E+03
2.39E+01	-0.77990505	12	2.85E+02
4.22E-02	0.533130677	10	5.97E-02
2.12E+01	-2	3	1.85E+02
9.98E+00	-1	4	1.73E+01
1.43E+03	0.192391288	9	4.30E-01
3.01E+00	-0.220471766	9	3.89E+00
6.37E-01	-0.041200444	20	4.60E+00
1.17E-01	0.054519162	12	1.07E+00
2.64E+00	0.931720963	6	2.30E-02
2.97E+01	-0.503718631	7	9.46E+00
3.05E+01	-1	4	4.27E+01
8.23E+01	-0.464867781	9	1.43E+01
1.14E-02	0.555656857	22	6.97E-03
4.44E-01	0.057128391	2	5.91E-01
1.66E-02	0.144540144	4	5.07E-01
5.90E+02	-0.494261891	16	1.44E+02
2.85E+00	-0.208082758	5	1.79E+00
3.49E+03	-0.389927782	38	1.81E+04
1.30E+00	0.098108105	11	7.69E-01
3.95E+01	-0.743430838	9	6.34E+01
2.94E+00	-0.293085118	7	3.72E+00
1.75E+06	0.093330023	41	2.73E+00
1.35E-04	1	28	9.67E-07
2.41E+02	-0.429487075	7	6.81E+00
3.27E+00	-0.200643907	10	4.17E+00
1.10E-05	1	29	9.79E-07
3.17E+02	-0.505287439	18	2.96E+02

3.60E+03	-1	14	5.04E+03
3.34E-01	0.436580296	2	2.60E-01
1.26E+02	-0.764205425	9	7.08E+01
5.92E+03	-2	9	2.83E+04
9.39E+00	-0.625093533	5	7.78E+00
8.08E+00	-0.670509961	3	4.21E+00
3.10E+00	0.29702829	9	2.46E-01
7.60E+04	-0.550822512	24	3.35E+03
9.18E-01	0.087529304	6	6.60E-01
1.75E-01	-0.038391015	25	7.41E+00
1.09E-10	3	13	1.88E-09
1.51E-05	2	9	3.80E-05
2.21E-17	0.744241	93	1.29E-11
2.96E+00	0.523726318	22	9.97E-03
1.42E-02	0.679913813	20	2.71E-03
6.09E-01	0.622664008	7	6.45E-02
3.40E-01	0.425998828	5	1.92E-01
9.60E+00	0.515372667	6	1.20E-01
1.73E+00	-0.459790011	7	7.79E+00
6.84E-01	-0.484114915	6	6.41E+00
4.27E+05	-2	10	8.52E+04
1.89E+02	-0.999981857	9	2.49E+02
4.68E+02	-0.911155832	11	4.18E+02
8.34E-03	2	5	1.41E-03
4.55E-01	0.627546113	6	7.71E-02
3.20E+02	0.369733071	13	1.19E-01
1.72E-04	0.899833154	29	1.52E-05
1.26E-01	1	1	7.61E-02
4.41E-01	0	1	6.16E-01
1.11E+00	-0.305578097	5	2.52E+00
6.53E-01	-0.095442842	2	8.23E-01
1.48E+02	-0.834708229	7	4.10E+01
2.65E-01	0.441237154	16	5.06E-02
1.42E-01	1	11	1.30E-03
7.86E-01	0.052349404	12	1.09E+00
1.77E-08	3	11	2.46E-08
1.26E+01	0.445611002	5	1.79E-01
1.14E+00	0.262739744	8	3.06E-01
4.30E-01	-0.009329895	3	7.46E-01
6.96E-01	0.290313701	24	1.24E-01
3.02E-01	0.136747782	13	6.31E-01
1.19E+00	-0.08007957	4	1.01E+00
1.30E+00	-0.416988825	1	1.26E+00
7.40E-28	2	50	1.77E-24
5.24E-03	1	11	1.79E-03
3.23E+00	-0.27720361	6	2.81E+00
1.04E+00	-0.193759962	4	1.43E+00

5.48E+00	0.328010767	12	1.72E-01
8.51E-01	-1	3	2.49E+01
1.12E-01	-0.089833695	6	1.34E+00
1.47E-09	0.870013093	91	1.02E-13
2.08E+02	-0.293635486	13	1.37E+01
1.97E-01	-0.152190499	3	1.08E+00
3.29E+02	-0.528836705	10	2.79E+01
4.18E-01	0.002113397	4	7.86E-01
1.40E-01	1	4	3.59E-02
4.39E-02	0.108967886	7	6.27E-01
3.64E-01	0.040471634	5	7.46E-01
1.13E+01	0.890334176	6	2.71E-02
1.05E-01	0.106864577	6	6.11E-01
5.11E+00	0.422256036	4	2.16E-01
9.34E+03	-0.760598558	15	9.05E+02
3.53E+00	1	7	9.57E-03
2.74E-01	0.859452302	6	3.07E-02
2.61E-01	0.331300151	5	2.68E-01
3.00E-01	0.614572228	26	1.65E-03
1.93E+00	0.110939205	6	6.01E-01
1.46E+00	-0.358107279	5	3.04E+00
8.14E-04	2	8	3.40E-04
3.14E-06	2	10	9.67E-06
8.07E-01	0.572406626	12	3.35E-02
8.86E+00	-0.089458377	5	1.18E+00
1.51E+01	0.865656485	8	1.61E-02
1.01E-02	2	10	1.88E-04
1.49E+00	-0.005714351	13	1.75E+00
1.19E-06	1	27	5.68E-06
4.97E-02	0.561065313	6	1.00E-01
6.73E-03	1	9	4.20E-04
2.48E+00	-0.117046391	3	9.88E-01
4.57E-01	0.012785609	1	6.02E-01
3.01E+00	-0.048597329	4	9.18E-01
5.33E+01	-0.318031073	11	1.03E+01
2.24E+00	0.2528874	60	6.42E-02
2.95E-03	0.60566979	20	5.82E-03
1.66E+00	0.739747428	14	6.60E-03
3.09E-02	0.755745065	11	1.27E-02
3.46E+00	-0.015823054	6	9.95E-01
1.60E+05	-0.728593876	15	7.00E+02
4.65E-01	-0.282243181	7	3.55E+00
2.52E+03	-0.861053414	14	1.27E+03
6.09E-01	-0.098732931	4	1.07E+00
1.52E-02	0.119650936	13	7.13E-01
2.56E-01	0.387127645	3	2.64E-01
3.81E-01	0.538533787	32	1.70E-03

4.83E-01	0.390312788	20	5.37E-02
1.36E+00	-0.285983498	7	3.61E+00
6.15E+00	-0.817531348	3	6.19E+00
3.08E+00	-0.309016032	4	2.04E+00
4.67E-01	0.06066752	1	5.55E-01
5.83E-01	0.136560175	2	4.98E-01
2.12E+04	-0.552211314	21	1.25E+03
3.14E-05	1	26	1.10E-06
3.05E-01	0.444266312	3	2.27E-01
2.72E+00	0.311276339	9	2.28E-01
2.89E+00	0.011768591	25	3.94E+00
3.39E+00	-0.288715256	8	4.52E+00
1.56E+04	-0.555317036	23	2.53E+03
6.08E+00	0.119542192	10	6.54E-01
8.74E-05	2	7	1.13E-03
4.32E-01	0.05751075	9	8.84E-01
1.72E-02	2	11	1.15E-05
4.48E-02	2	5	3.48E-03
4.68E-01	0.089421734	5	6.27E-01
2.05E+01	-0.300526501	10	7.43E+00
4.47E-01	0.046219333	2	6.05E-01
4.63E-01	-0.241045269	3	1.37E+00
1.62E+02	-0.958246463	15	4.44E+03
9.20E+00	-0.231180822	9	4.12E+00
4.07E-01	-0.05370344	3	8.37E-01
2.08E-03	0.496064817	12	5.58E-02
6.23E-03	0.791018724	7	3.06E-02
1.65E-03	0.947367505	8	1.08E-02
2.50E-03	0.671522337	15	8.89E-03
2.41E-02	0.943118852	5	3.10E-02
1.72E-04	2	5	4.90E-04
2.19E-03	1	12	4.59E-04
2.26E-03	2	5	6.91E-04
2.73E-02	2	5	2.03E-03
5.10E-02	0.652448313	16	8.39E-03
7.63E-07	2	22	1.96E-10
4.23E-01	1	23	6.87E-06
4.53E+02	-0.694995048	22	8.67E+03
1.40E+01	-0.326889565	10	8.66E+00
5.64E+03	-0.128397946	14	4.84E+00
8.15E-01	0.230435793	8	3.59E-01
3.47E-02	1	7	7.31E-03
9.40E-10	3	15	2.76E-09
2.36E-05	2	9	2.43E-04
4.54E-03	2	4	4.64E-03
8.82E+02	-0.197251501	7	2.43E+00
3.07E-07	2	28	1.29E-09

1.58E-01	-0.070388213	1	6.94E-01
8.06E-06	0.932301039	23	7.26E-05
6.24E+05	-0.6437227	17	7.48E+02
2.41E-19	0.775689254	91	5.62E-12
7.20E+00	-0.294541888	9	5.78E+00
1.72E+01	-0.65562745	6	1.27E+01
4.83E+03	-0.098084535	16	4.96E+00
1.26E+02	-0.595973428	9	2.89E+01
8.30E+01	-0.469514409	10	1.98E+01
3.18E-04	1	13	1.09E-03
4.28E-13	3	20	2.58E-13
5.17E-02	0.655777054	6	6.89E-02
8.67E-01	-0.106963683	8	1.86E+00
2.36E-04	0.965434366	33	1.44E-06
6.54E-01	0.468469953	13	5.90E-02
5.18E+01	1	11	4.65E-04
6.74E+03	-0.405019776	9	1.04E+01
1.22E+01	0.111047499	5	5.81E-01
1.32E+03	0.130399741	24	8.65E-01
1.22E-01	2	5	4.27E-03
1.19E+00	1	3	2.21E-02
2.76E-02	0.474559385	5	1.62E-01
1.44E-04	0.751499253	46	1.63E-06
2.35E-02	0.990747134	9	6.08E-03
4.43E+03	-0.301552005	12	1.16E+01
1.60E+06	0.265184282	86	1.75E-02
9.07E-08	2	13	5.61E-08
2.47E+03	-0.225329497	14	1.01E+01
1.06E+04	-0.42664954	13	3.54E+01
2.31E+07	-0.645087746	20	2.34E+03
9.97E+02	-2	4	1.14E+02
3.88E-01	0.824861214	15	2.59E-03
4.30E-03	0.328438163	9	2.08E-01
6.39E-13	2	18	4.06E-10
6.23E-04	1	12	1.05E-03
1.63E+00	-0.322273732	4	2.13E+00
1.70E+04	-0.532924252	8	1.49E+01
5.41E+05	-1	11	1.31E+03
4.19E+01	-0.585637664	10	3.87E+01
2.23E+00	-0.01384039	4	8.25E-01
1.17E-01	0.906042445	6	2.55E-02
6.18E-01	0.704956159	5	7.17E-02
1.54E+00	-0.035116325	3	7.98E-01
1.36E-01	1	11	9.93E-04
5.84E-02	0.545148801	5	1.26E-01
4.04E-02	1	4	3.03E-02
8.49E-02	0.508643472	17	2.46E-02

2.31E-01	0.929763115	3	6.38E-02
5.36E-01	0.459931539	5	1.70E-01
1.38E-01	0.730449808	4	8.39E-02
9.87E-04	0.886746899	17	8.32E-04
9.27E-02	0.727619192	14	7.24E-03
8.20E+01	0.586655559	40	1.86E-04
8.88E-11	2	29	1.20E-11
2.46E+00	0.176389368	8	4.67E-01
3.74E+00	0.265634613	6	3.25E-01
1.47E+03	-0.785779433	10	1.23E+02
6.33E+00	-0.741714589	8	4.13E+01
1.58E+00	-0.31621944	6	3.29E+00
6.52E+00	-0.571904474	5	6.45E+00
3.68E-02	0.175592245	5	4.63E-01
3.55E-01	-0.285876133	3	1.54E+00
3.78E-01	0.147712866	3	4.94E-01
6.45E-04	2	9	7.02E-05
7.56E-02	0.355552404	11	1.54E-01
2.88E+02	-0.377699816	12	1.93E+01
3.04E+04	-0.40390724	18	1.14E+02
8.50E+08	-0.634451451	42	7.30E+06
4.37E-01	-0.007806232	1	6.24E-01
5.32E+01	-1	7	1.11E+02
2.97E+05	-2	11	5.35E+04
1.61E+00	0.070337586	4	6.37E-01
4.47E+01	0.04572662	13	1.21E+00
2.09E+05	-0.342574749	34	2.91E+03
9.29E+03	-1	13	1.00E+04
4.48E-01	0.509783464	25	7.50E-03
2.05E-01	-0.130506652	4	1.18E+00
4.75E+02	-0.433358608	18	1.50E+02
4.25E+03	-2	7	5.36E+03
5.89E-01	-0.451658021	2	1.78E+00
1.16E+01	-0.283508451	7	3.57E+00
1.78E+01	-1	4	2.76E+01
8.96E-01	-0.241118414	3	1.37E+00
6.16E+03	-0.867106225	13	8.23E+02
3.80E+05	-1	18	1.38E+05
7.42E+02	-1	8	1.96E+02
6.25E+01	-0.003053507	5	8.69E-01
6.36E-01	-0.233699889	5	1.96E+00
1.51E+00	0.610507726	4	1.21E-01
8.45E-01	0.591024599	3	1.55E-01
4.29E-01	-0.168744653	2	9.64E-01
9.04E-01	-0.352916119	7	4.85E+00
4.49E+01	0.074043951	12	9.40E-01
3.41E+01	-0.70876423	5	1.04E+01

1.89E+02	0.35960197	19	7.98E-02
2.49E-01	0.194944203	3	4.37E-01
4.60E+00	0.517621905	9	7.59E-02
5.72E-02	0.920827998	9	8.83E-03
3.30E-01	1	6	3.11E-03
1.20E+01	0.980150898	4	3.90E-02
1.76E-01	-0.037670774	8	1.33E+00
3.35E+00	-1	3	1.42E+01
2.02E+02	-1	6	1.68E+02
1.08E+06	-2	10	9.49E+03
7.39E+01	-1	8	2.19E+02
2.75E-01	1	6	5.60E-03
4.47E-01	0.047995542	1	5.67E-01
4.65E-01	0.078007995	2	5.65E-01
4.21E-01	0.286969873	8	2.72E-01
2.36E+04	-1	7	4.48E+02
2.96E+03	-1	6	2.23E+02
1.32E+00	-0.554417927	9	2.31E+01
8.89E-02	0.315652756	5	2.83E-01
2.69E-08	1	19	3.29E-06
4.76E-01	0.260619819	9	2.99E-01
1.91E+00	-0.364070651	2	1.47E+00
4.08E+01	0.230964315	7	3.65E-01
3.81E+00	-0.633754982	9	3.53E+01
1.60E+00	1	9	4.59E-03
2.97E+00	-0.555096937	9	2.32E+01
9.92E-01	-0.730861539	6	1.71E+01
5.63E-02	-0.043928594	8	1.37E+00
1.69E-01	0.634810285	10	3.31E-02
2.91E+01	2	6	1.01E-03
5.20E+00	0.781740914	5	5.47E-02
7.37E-01	0.036417771	6	8.09E-01
4.01E-02	0.365880325	42	1.13E-02
6.35E+01	0.536959834	5	1.30E-01
7.50E-02	0.080912279	8	7.44E-01
4.71E-01	0.064956899	2	5.81E-01
6.56E-01	0.789016207	8	2.35E-02
6.43E-05	0.821538316	21	4.71E-04
1.69E-01	0.684858226	10	2.48E-02
2.19E-04	1	9	3.18E-03
1.50E+00	-0.29709536	3	1.58E+00
1.03E-01	0.942773875	5	3.10E-02
3.25E-02	0.804514162	6	3.81E-02
1.52E-01	0.199135738	3	4.32E-01
2.93E-19	2	42	4.94E-16
4.89E-02	2	1	1.52E-02
3.06E-01	0.394377127	10	1.33E-01

3.35E-01	1	7	1.09E-02
6.27E+00	-0.100129096	12	3.02E+00
1.10E+01	1	27	1.01E-07
8.09E+00	0.061907782	8	8.17E-01
1.04E+00	0.082995195	3	5.85E-01
1.24E+00	0.529062645	6	1.14E-01
2.65E-01	1	11	6.14E-04
7.66E-02	0.884851336	5	3.80E-02
4.36E-13	2	28	1.44E-11
7.14E-01	0.215269158	6	3.97E-01
9.26E-03	0.087400269	9	7.53E-01
1.16E-01	0.349546371	5	2.51E-01
4.05E-01	0.087662808	2	5.54E-01
1.98E-10	2	22	4.12E-08
1.22E-01	1	1	6.16E-02
8.97E-05	1	20	1.87E-05
7.42E+04	-1	9	3.63E+02
2.24E+03	-0.172220318	9	3.01E+00
5.62E-01	0.162184673	1	4.66E-01
6.43E+01	0.984592328	9	6.29E-03
3.28E-01	1	5	2.03E-02
8.19E-03	2	12	5.10E-05
8.84E-07	3	6	9.64E-07
2.53E-02	-0.034740044	10	1.60E+00
2.04E+02	-0.230839028	21	3.93E+01
2.62E+00	-0.177447415	9	3.09E+00
3.89E+00	-0.3106722	10	7.88E+00
2.13E+00	-0.089413002	3	9.19E-01
9.74E-01	0.315459437	3	3.19E-01
7.74E+00	-8.60E-05	6	9.35E-01
5.96E-03	0.754517178	17	2.72E-03
4.84E-01	-0.032851298	4	8.75E-01
2.62E+00	-0.067412313	5	1.09E+00
1.90E+00	-0.009955929	2	6.84E-01
1.42E-02	0.195763738	23	3.93E-01
5.95E-02	0.121990631	11	6.63E-01
1.29E-02	0.439129804	98	4.03E-06
9.60E+01	-0.517867654	14	9.33E+01
5.21E+03	0.040751652	39	6.81E+00
1.14E+00	-0.091007552	5	1.18E+00
2.22E+01	0.872280487	10	8.38E-03
2.59E-01	0.473048033	7	1.25E-01
4.88E-01	0.038600824	5	7.50E-01
7.76E+00	0.461295348	20	2.58E-02
1.27E+00	0.369735757	3	2.76E-01
5.96E-01	0.474618043	22	1.73E-02
2.63E+00	0.529098617	15	2.80E-02

1.51E+02	0.402606464	5	2.08E-01
3.67E+00	-0.431981013	4	2.98E+00
8.83E+05	-0.707109728	29	1.68E+05
4.92E+04	-0.086722047	17	5.09E+00
9.41E-01	-0.067655637	6	1.22E+00
6.42E+02	0.257660853	17	2.33E-01
1.41E+00	-0.484392625	3	2.59E+00
6.63E-02	-0.224140688	24	6.37E+01
4.37E+02	0.56820132	18	1.21E-02
2.87E-01	1	6	3.99E-03
7.60E-03	2	8	1.23E-04
1.59E-07	2	9	2.32E-06
7.10E-05	2	10	7.63E-05
4.34E+00	0.670416968	11	2.16E-02
2.43E-01	-0.078027788	5	1.13E+00
4.28E-01	-0.119991132	2	8.68E-01
1.14E-02	0.720182377	12	1.24E-02
2.06E-01	0.683087184	16	6.47E-03
6.51E-01	0.065990614	3	6.12E-01
2.26E+01	-0.101083834	11	2.67E+00
8.13E-01	-0.130548127	5	1.36E+00
6.42E+01	0.04972003	20	1.80E+00
2.33E-01	0.781247117	16	2.81E-03
1.24E-01	-0.315206059	6	3.27E+00
1.30E+00	-0.201378473	6	2.08E+00
3.08E-01	-0.428371927	3	2.23E+00
5.52E-01	0.034688116	2	6.21E-01
1.36E-01	-0.17276876	11	4.17E+00
1.12E-01	0.603449991	3	1.50E-01
3.00E+00	0.776441227	21	7.65E-04
6.16E-02	1	3	4.79E-02
1.01E-02	1	5	2.24E-02
2.33E-02	0.736133935	10	1.84E-02
1.93E-03	0.312609581	7	2.54E-01
3.16E-01	0.331173419	1	3.49E-01
2.40E-08	2	23	1.14E-08
1.48E-01	0.599952774	8	5.90E-02
5.88E-02	1	16	1.65E-04
3.14E-08	2	21	4.86E-09
6.94E-06	1	32	1.08E-09
1.37E-01	0.307902868	4	3.07E-01
1.13E+09	-0.749107593	51	3.35E+09
3.65E+11	-2	17	7.97E+08
1.50E+01	-0.13582429	4	1.20E+00
8.27E+00	-0.252871484	10	5.64E+00
4.38E-01	-0.002631114	1	6.18E-01
4.43E-01	-0.279139236	3	1.51E+00

1.32E+00	-0.416024067	10	1.45E+01
2.11E-01	0.649368387	4	1.08E-01
1.76E+00	0.329100358	14	1.50E-01
1.31E-02	1	3	2.73E-02
2.30E+02	-0.217728978	16	1.37E+01
1.18E-02	0.006797067	78	2.98E+02
7.79E+02	-0.927071808	8	1.02E+02
5.00E+06	-0.865326655	24	1.52E+05
1.15E+01	-0.578455738	4	4.67E+00
6.24E-01	0.000217613	9	1.20E+00
8.47E+00	-0.193152708	20	2.21E+01
1.71E+00	0.315259564	8	2.37E-01
1.90E+00	0.163956441	21	5.60E-01
9.24E+00	-0.624963671	10	4.86E+01
1.87E-01	-0.086268495	6	1.32E+00
1.26E-01	1	7	1.35E-03
1.89E-01	-0.08543523	11	2.42E+00
1.85E-01	0.575775867	11	3.91E-02
4.12E-02	0.362180809	11	1.48E-01
4.90E+02	-0.640606252	11	7.73E+01
5.61E-01	-0.00941512	4	8.14E-01
4.67E-01	-0.0100254	1	6.26E-01
2.90E+00	-0.076646051	5	1.13E+00
2.67E+00	0.083595236	10	8.05E-01
8.78E-01	-0.089019149	3	9.18E-01
1.05E+08	-0.728445213	47	3.88E+08
3.37E+03	-1	12	6.30E+03
4.81E-01	-0.061565436	3	8.55E-01
6.73E+00	-0.143278632	18	9.81E+00
3.43E+03	-1	7	8.62E+01
1.01E+05	-2	14	3.08E+05
1.57E+00	-0.008739743	10	1.37E+00
4.35E-01	-0.039703766	1	6.59E-01
6.50E-01	0.209106886	2	4.26E-01
1.83E+00	0.224217763	23	2.82E-01
3.18E-01	0.22695065	21	2.84E-01
2.83E+00	-0.840794125	3	6.57E+00
1.12E+11	-0.959312213	25	7.96E+05
5.20E+03	-2	6	1.83E+04
1.72E+00	-0.433706079	4	3.00E+00
4.88E+02	-0.279677758	11	8.13E+00
4.58E+02	-0.463340566	33	1.62E+04
1.73E+06	-1	15	1.42E+05
1.48E+06	-4	5	2.56E+05
4.80E+04	-1	9	2.59E+03
2.02E+00	-0.269978201	6	2.73E+00
1.03E+01	-1	3	1.01E+01

5.16E+00	-0.853445946	5	1.74E+01
9.43E+02	-1	7	5.07E+02
2.09E+02	-0.486850007	8	1.19E+01
5.44E+00	0.435991076	27	1.51E-02
6.72E+02	-0.939528863	10	3.00E+02
2.47E+05	-0.145974559	17	8.66E+00
4.99E-05	1	13	5.51E-04
9.68E-02	1	10	3.37E-03
1.01E+04	-0.49789437	13	5.89E+01
8.02E+03	-0.38998238	10	1.25E+01
6.40E+02	-0.837465615	11	2.64E+02
9.62E+05	-1	16	2.06E+04
9.02E-01	0.270516024	28	1.35E-01
5.40E-08	1	36	2.05E-09
3.00E-03	0.282023375	11	2.44E-01
1.41E+01	-1	4	3.00E+01
1.14E+06	-0.198203922	51	5.00E+03
5.31E-01	0.236572069	4	3.82E-01
3.78E-01	0.798975104	4	6.80E-02
2.93E-01	0.295107055	2	3.53E-01
4.49E-01	0.401394774	8	1.56E-01
1.08E+00	1	6	4.92E-03
3.50E+00	0.421519946	10	1.14E-01
3.77E-01	-0.354109017	3	1.84E+00
1.22E-02	1	5	7.15E-03
6.01E-01	-0.106878749	20	9.06E+00
4.87E-01	0.064468251	1	5.51E-01
3.64E-03	0.304057881	13	1.91E-01
1.30E+00	1	25	4.84E-07
1.35E-01	0.343260628	4	2.76E-01
1.17E+02	0.145646204	14	6.03E-01
6.99E+00	-0.221324458	4	1.56E+00
7.25E-04	0.721843662	22	1.08E-03
4.98E-04	1	10	2.90E-04
5.22E+01	-0.121989191	20	1.06E+01
2.43E+06	-2	13	8.53E+04
1.52E+00	-0.865954454	3	7.02E+00
6.65E-01	-0.06499934	4	9.66E-01
8.23E+00	-0.724464175	9	5.73E+01
2.63E+00	-0.087531658	6	1.32E+00
7.74E+00	-0.658836331	7	1.88E+01
1.44E+00	-0.125070083	5	1.34E+00
5.87E+00	-0.242282781	4	1.66E+00
1.32E+01	-0.445545155	9	1.29E+01
2.53E+02	-0.248103028	21	4.73E+01
3.28E-18	2	35	1.41E-15
5.12E-02	-0.155924276	3	1.09E+00

2.68E+00	0.247222476	20	2.35E-01
1.48E-01	0.334755409	61	5.85E-03
9.91E-03	0.479783148	4	1.81E-01
2.63E+00	0.196025474	37	3.65E-01
4.90E+00	0.488055145	6	1.34E-01
2.78E+03	-0.02169959	12	1.78E+00
9.92E-01	0.14809058	8	5.36E-01
3.22E-02	-0.660657126	9	4.08E+01
7.96E+00	-0.799633418	2	3.78E+00
5.47E+01	-0.099645117	15	4.42E+00
8.55E-07	2	11	2.15E-05
1.14E-14	2	26	3.33E-12
6.84E-04	2	4	7.62E-03
2.81E-01	0.313040097	1	3.60E-01
7.93E-02	0.523154015	1	2.51E-01
1.22E+02	-0.103028541	21	9.92E+00
5.70E-03	0.494097603	14	4.27E-02
6.97E+01	-0.00901703	13	1.79E+00
1.46E+05	-0.32134525	17	4.17E+01
6.93E-02	0.57770476	11	3.86E-02
3.17E+01	0.151784934	12	5.59E-01
8.85E+00	-0.012924688	9	1.29E+00
3.10E-02	1	5	4.52E-03
1.40E+00	0.339485366	8	2.11E-01
4.77E+03	-1	11	1.60E+04
3.71E+02	-0.310876711	8	5.04E+00
1.75E+01	-0.98485865	3	9.59E+00
5.60E-01	0.141954266	5	5.21E-01
1.92E-03	1	10	3.63E-03
5.25E-03	1	5	1.27E-02
1.99E+01	-0.966866174	5	2.59E+01
2.29E+01	-0.91284682	3	7.94E+00
1.15E+04	-1	8	8.79E+02
6.69E-01	0.224853783	11	3.49E-01
4.57E+00	-0.314146571	16	3.12E+01
1.79E+01	-0.411421542	7	6.29E+00
3.36E+01	0.424410473	36	6.64E-03
3.49E-01	0.165010096	6	4.85E-01
1.62E+00	0.126683073	5	5.50E-01
3.27E-01	0.472495486	3	2.11E-01
6.67E-01	0.031630912	6	8.24E-01
1.03E+03	-0.091155836	21	8.73E+00
1.31E+03	-1	5	9.04E+01
1.67E+04	-1	7	1.87E+02
4.72E-22	2	33	2.17E-14
1.73E-02	0.793890688	13	5.77E-03
6.16E-01	0.987473158	8	8.90E-03

4.56E-05	0.86968086	16	1.32E-03
4.95E-03	0.700898127	13	1.12E-02
1.43E+05	-0.907483965	21	5.74E+04
2.30E+10	-2	23	4.61E+08
3.86E+03	-2	7	1.58E+03
2.68E+01	-0.445187344	11	2.28E+01
5.77E-01	-0.380570913	1	1.18E+00
8.74E-04	1	2	2.67E-02
2.92E-21	2	35	2.74E-17
7.16E-03	1	8	2.50E-03
3.35E-02	0.302446056	16	1.65E-01
9.36E-02	0.285523295	27	1.15E-01
4.05E-04	0.449515204	17	4.18E-02
5.27E+02	-0.854498808	8	7.16E+01
1.18E+08	-2	11	7.92E+06
8.78E+05	-0.483340668	24	1.48E+03
5.58E+00	-0.143356148	12	4.03E+00
6.03E+03	-0.450758349	11	2.36E+01
8.50E+00	-0.296989247	13	1.40E+01
9.19E-01	-0.142882474	3	1.06E+00
3.89E+02	-0.379747605	13	2.53E+01
4.68E-05	0.751161229	19	1.68E-03
5.28E+05	-0.792293506	15	1.17E+03
4.40E+02	-0.248051257	26	1.26E+02
6.52E-01	0.737565171	8	3.02E-02
2.30E-05	1	22	2.50E-06
3.50E-18	2	39	4.02E-18
8.93E+05	-0.114819537	26	2.22E+01
1.99E+04	-0.415048005	8	8.38E+00
6.12E+00	-0.066492228	2	7.73E-01
3.01E+03	-0.466165498	19	2.75E+02
5.82E+07	-1	16	3.57E+05
4.63E+01	0.614386774	18	7.86E-03
6.82E-02	0.518634878	23	9.08E-03
8.05E-04	1	14	7.34E-04
5.70E+00	0.315910628	7	2.51E-01
2.08E+02	0.217288934	12	3.60E-01
2.23E+00	-0.224424182	3	1.31E+00
7.50E-01	-0.249847079	1	9.44E-01
2.07E+01	-1	5	4.76E+01
3.93E+00	-0.240820248	3	1.37E+00
2.04E+06	-1	14	2.11E+04
2.87E+01	1	12	8.20E-04
7.21E-06	1	25	1.01E-06
2.17E-02	0.698068989	14	9.06E-03
2.52E-03	2	4	4.89E-04
1.78E+00	1	3	3.65E-02

8.14E+00	-0.240575993	14	1.13E+01
6.83E-01	-0.015611909	2	6.92E-01
5.42E+00	-1	1	6.66E+00
7.00E+04	-0.852686088	12	4.64E+02
1.22E-03	2	23	6.09E-08
4.53E+05	-0.433244663	28	2.46E+03
3.64E+01	-1	4	6.47E+01
1.34E+05	-1	15	1.86E+04
5.84E+00	0.403396102	8	1.54E-01
2.67E-01	1	11	8.65E-04
1.99E-02	0.44274604	6	1.61E-01
1.00E+07	-0.147615982	48	9.30E+02
4.56E+01	0.454647655	4	1.96E-01
2.68E+00	0.071714316	6	7.03E-01
5.15E-01	-0.005832838	3	7.39E-01
2.93E+00	-0.381902779	4	2.56E+00
6.24E+00	-0.181475394	6	1.92E+00
9.60E-01	-0.150966042	5	1.46E+00
1.03E+01	-0.654169797	5	8.62E+00
3.11E+00	-0.502144618	6	6.88E+00
4.05E+02	-0.33320505	6	3.52E+00
1.97E+01	-0.0045524	5	8.74E-01
1.74E+02	-0.47287333	13	4.92E+01
6.45E-02	0.750988618	11	1.31E-02
9.15E-04	2	5	8.81E-04
4.97E+00	0.177724479	9	4.65E-01
3.64E-01	1	3	3.72E-02
1.00E+03	-0.705539485	13	2.60E+02
4.61E-03	3	2	1.85E-03
6.74E-08	2	20	8.22E-08
4.47E-11	2	23	3.67E-10
8.84E-04	1	21	1.93E-05
4.19E-03	0.924084853	13	2.27E-03
4.53E-02	0.423555448	7	1.56E-01
7.16E-01	0.09051086	11	8.07E-01
7.46E+00	0.877053052	6	2.86E-02
2.04E-01	0.054694784	2	5.94E-01
9.15E-01	0.379145935	3	2.70E-01
6.24E+03	0.326001158	53	1.26E-02
4.63E-01	0.660597015	12	1.85E-02
4.80E-01	0.702441062	28	3.29E-04
8.22E-05	2	6	7.16E-04
1.94E+00	0.358928785	10	1.64E-01
8.17E-02	0.844215353	6	3.26E-02
1.87E-01	0.748377532	6	4.77E-02
7.30E-04	2	8	3.86E-04
6.72E-05	0.832376136	32	1.66E-05

1.00E-01	1	6	9.61E-03
5.10E+04	0.044926295	24	2.44E+00
2.37E-02	0.768156387	12	9.03E-03
1.10E-05	2	15	1.82E-07
3.50E+01	0.269145937	8	2.97E-01
1.26E+03	-1	8	2.80E+02
1.42E+01	0.17153292	17	5.04E-01
5.67E+02	-0.265746397	22	7.02E+01
3.28E-01	0.126899659	8	5.95E-01
2.02E+00	0.505354276	5	1.45E-01
1.30E-02	1	7	1.46E-03
7.10E+00	0.231168669	18	2.89E-01
1.94E-01	0.306613889	32	6.56E-02
1.62E-02	0.375651333	24	4.42E-02
7.17E-02	2	4	7.51E-03
1.10E+03	0.002657481	15	1.94E+00
2.13E-01	0.487849698	11	6.76E-02
2.02E-01	0.03319059	7	8.77E-01
2.36E+00	0.906073838	23	9.86E-05
1.39E+00	0.407609339	9	1.37E-01
5.92E-01	0.113413226	7	6.15E-01
1.54E+00	-0.460138318	7	7.80E+00
2.87E+03	-0.723165056	9	5.69E+01
1.31E+02	-0.38320988	15	4.34E+01
4.77E+01	-0.50877929	9	1.81E+01
9.80E+01	0.014091058	10	1.20E+00
3.92E+00	-0.231245208	22	4.76E+01
4.55E-03	1	10	2.43E-03
2.76E+00	-0.085713531	6	1.31E+00
5.21E+03	-1	15	7.58E+03
1.56E+00	-0.023839986	4	8.51E-01
2.16E+04	-0.673198914	26	3.21E+04
2.71E+02	-0.992816934	9	2.40E+02
9.08E+00	-0.060893302	9	1.66E+00
5.99E-01	-0.237825393	4	1.64E+00
5.00E-01	-0.398845483	5	3.51E+00
1.94E+01	0.017949541	14	1.59E+00
3.35E+01	-0.912389619	6	3.52E+01
9.96E+00	0.60195157	11	3.32E-02
9.20E+02	-0.747439634	12	2.30E+02
5.49E-01	0.281647185	19	1.72E-01
4.78E-01	0.427514247	17	5.09E-02
2.78E+05	0.192404301	6	4.35E-01
4.84E-01	0	1	6.16E-01
6.01E+01	-0.167498436	12	4.73E+00
7.74E+02	-0.645848234	7	1.78E+01
6.26E+00	-0.103979764	6	1.41E+00

3.49E-06	1	36	3.09E-10
5.25E+01	-0.517330674	7	1.00E+01
4.71E+05	-0.533543331	12	5.49E+01
4.18E+00	-0.18338311	4	1.39E+00
7.52E+02	-0.62945406	11	7.21E+01
2.34E+03	-0.079480196	26	1.40E+01
4.38E-01	0.058436901	2	5.90E-01
1.04E-03	1	11	1.36E-04
2.73E-14	2	43	1.60E-14
4.79E-01	0.026465335	3	6.79E-01
1.17E-14	0.988948216	85	5.83E-15
3.31E-02	0.488231045	22	1.49E-02
5.13E-02	1	6	1.08E-02
1.66E+04	-0.626183883	9	3.39E+01
9.66E+03	-0.74804938	19	4.43E+03
2.39E+00	-0.103304793	6	1.41E+00
9.36E+00	0.435413014	7	1.48E-01
1.18E+00	-0.272019864	4	1.82E+00
5.09E-01	0.314300555	10	2.12E-01
6.23E-01	0.349344941	12	1.49E-01
1.48E+04	-0.828281322	7	3.98E+01
5.65E-01	0.162713464	12	5.19E-01
1.52E+00	-0.505256113	2	2.00E+00
9.88E+02	-2	5	2.20E+02
5.88E+00	-0.711873633	3	4.69E+00
1.98E+48	-0.77488811	196	1.42E+37
1.30E+02	0.466459125	11	7.73E-02
3.37E+00	0.186578087	8	4.44E-01
5.21E+09	-0.291217039	40	4.51E+03
6.50E+02	-4	2	3.07E+03
2.78E+00	-0.259169481	6	2.62E+00
1.31E+05	0.053195734	73	4.06E+01
2.53E-01	0.393793959	3	2.59E-01
2.70E+00	-0.180818875	5	1.63E+00
5.26E+04	-0.810948302	13	5.51E+02
3.75E+00	-0.549847224	5	5.97E+00
2.11E+01	-0.684510899	7	2.11E+01
1.93E+02	-0.121996185	18	8.03E+00
4.30E+00	-0.705099437	2	3.08E+00
2.09E+02	-1	5	1.32E+02
1.24E+01	-0.118897969	7	1.72E+00
2.01E+00	0.037039207	6	8.07E-01
1.25E+00	-0.320307973	2	1.34E+00
2.68E-03	1	13	1.75E-04
2.03E-01	0.700926777	15	7.02E-03
4.82E-01	1	4	3.65E-02
1.48E+00	0.677486517	10	2.59E-02

3.31E-01	0.074519412	2	5.70E-01
2.62E+00	0.124779529	5	5.54E-01
1.24E+02	-0.323280587	5	2.69E+00
6.70E-01	-0.271844039	7	3.39E+00
3.62E+00	0.525933769	21	1.14E-02
1.96E-05	1	15	2.06E-05
4.00E-04	1	17	8.90E-06
1.20E-03	1	11	4.07E-04
2.33E-02	0.700435536	11	1.79E-02
2.63E+01	-0.376535443	8	6.94E+00
2.17E-01	-0.032977083	9	1.43E+00
2.20E-15	1	48	1.61E-11
1.15E-03	0.674968133	18	4.44E-03
2.17E+00	-0.060004013	9	1.65E+00
1.55E+03	-0.172364399	21	2.09E+01
9.91E-03	1	4	1.87E-02
9.34E-08	2	10	3.64E-05
2.42E-01	0.391968074	1	3.15E-01
1.12E+00	0.313435794	18	1.33E-01
4.99E-10	3	10	1.54E-07
1.49E-03	2	3	5.30E-03
9.76E-28	2	59	2.98E-26
6.93E-04	0.786226161	13	6.09E-03
1.29E-03	0.82441132	22	3.42E-04
8.90E-01	0.733703266	3	1.07E-01
7.76E+00	0.342902165	10	1.79E-01
3.17E-05	0.41624116	30	1.44E-02
3.28E-01	0.08426943	30	1.99E+00
9.66E+03	-0.924239002	9	1.66E+02
6.34E+00	-0.770798234	7	3.09E+01
1.09E+06	-0.535457004	13	7.70E+01
8.86E+01	-0.596550037	2	2.44E+00
4.13E-01	0.098126251	3	5.63E-01
5.22E-02	1	5	2.52E-02
8.74E-01	-0.025687943	2	7.08E-01
4.58E-01	0.039437015	1	5.75E-01
6.39E-01	0.606245512	9	4.73E-02
1.01E-01	0.614487005	5	9.86E-02
6.52E-01	-0.652597363	11	8.33E+01
3.40E+01	-0.372589342	6	4.11E+00
1.07E+02	-1	7	1.18E+02
2.89E+00	0.255218331	7	3.28E-01
2.26E-02	0.40067338	17	6.47E-02
9.88E-01	-0.469480756	5	4.50E+00
3.57E+04	-1	11	2.91E+03
1.45E+01	-0.277654768	8	4.28E+00
3.29E+01	-0.405981678	7	6.14E+00

3.67E+04	-1	17	2.51E+04
5.46E+02	-1	9	3.49E+02
1.88E+00	0.085822281	4	6.08E-01
1.33E+02	0.76987241	12	8.92E-03
3.42E+00	-0.110783217	6	1.45E+00
1.15E+00	0.825846432	5	4.68E-02
1.78E+00	-0.022007826	11	1.63E+00
5.55E+00	-0.300923924	12	1.16E+01
9.37E-01	0.832556286	4	6.13E-02
2.79E-02	0.516886947	14	3.59E-02
4.80E-03	0.241892216	9	3.30E-01
5.44E+00	0.123747205	6	5.71E-01
3.52E+01	0.684448971	15	8.01E-03
4.60E-07	0.855600043	26	7.14E-05
6.81E-03	1	12	7.13E-04
1.10E+00	0.639316312	12	2.14E-02
1.14E+02	0.143807656	11	5.79E-01
1.98E+01	0.089375405	11	8.13E-01
1.00E-06	2	11	5.46E-07
3.71E-01	0.018962678	4	7.46E-01
2.77E-01	0.399666439	3	2.56E-01
1.34E-01	1	3	3.91E-02
1.40E-01	2	3	9.17E-03
1.23E-02	2	6	2.50E-04
1.75E-01	0.957594472	3	5.93E-02
1.74E-02	0.675895739	15	8.59E-03
1.04E-01	0.16630331	3	4.71E-01
7.77E-04	1	7	9.97E-03
2.25E-02	2	3	6.57E-03
3.71E-02	0.968687096	2	8.22E-02
1.92E+01	-0.671229706	10	6.35E+01
1.25E+01	-0.712179643	5	1.06E+01
3.00E-01	0.23817782	142	1.33E-02
7.42E-01	-0.334192376	3	1.75E+00
3.50E+01	0.009866808	14	1.69E+00
2.41E-05	2	6	5.60E-05
4.94E-09	1	26	4.69E-07
1.21E+02	-0.510905182	11	3.44E+01
9.36E-02	-0.24888791	6	2.51E+00
1.06E+00	0.738362902	11	1.42E-02
1.79E-01	0.390100856	15	8.57E-02
9.55E-02	0.076247891	9	8.00E-01
2.27E+01	-0.408365362	11	1.81E+01
1.53E+00	-0.356365986	4	2.36E+00
4.91E-01	0.723837411	7	4.12E-02
1.28E+02	-0.930479148	7	6.26E+01
8.02E+00	-0.199158878	8	2.92E+00

7.00E-01	0.167918094	13	5.05E-01
2.67E-03	1	26	4.07E-06
9.74E+00	-0.075413383	15	3.64E+00
2.07E+00	0.244776079	5	3.63E-01
3.74E-01	0.699175395	10	2.28E-02
4.54E-02	1	8	7.93E-03
8.71E-04	1	7	6.51E-03
2.28E-06	2	9	7.19E-05
1.19E-02	0.902066533	6	2.59E-02
1.86E-04	0.643140869	68	1.85E-07
8.39E-03	1	5	5.84E-03
2.73E-01	1	1	1.00E-01
4.58E+00	0.822084163	6	3.56E-02
7.57E+01	-0.439748951	8	9.45E+00
2.82E+04	-0.619255049	13	1.40E+02
4.32E+02	-0.776659226	9	7.57E+01
1.79E+00	-0.208625428	6	2.14E+00
1.65E+01	-0.440169924	29	3.60E+03
7.27E-07	1	22	1.72E-06
4.12E-09	2	15	7.15E-07
1.28E-03	0.820288371	13	4.77E-03
1.81E-01	0.563117482	6	9.96E-02
6.12E-02	1	6	1.50E-02
9.77E-02	0.914814333	5	3.42E-02
3.11E-02	1	18	2.01E-04
2.87E-01	1	9	1.46E-03
1.69E+01	0.519289626	8	8.75E-02
1.10E-02	0.857737383	8	1.68E-02
3.02E+00	0.130878735	8	5.83E-01
2.34E+01	-0.77549288	8	4.87E+01
1.91E+01	-0.422288101	3	2.20E+00
1.54E+00	-0.970488862	2	5.47E+00
4.74E+00	-0.689458881	5	9.76E+00
8.31E-01	0.494775578	17	2.79E-02
8.40E-02	0.939104451	5	3.14E-02
4.47E-01	0.972218775	11	3.29E-03
2.25E+00	0.249877163	4	3.67E-01
2.69E-02	2	6	8.70E-04
5.63E-05	1	21	8.30E-06
1.95E-03	1	14	4.11E-04
5.39E+03	-1	8	3.04E+02
1.21E+01	-0.727415276	7	2.55E+01
7.27E+00	-0.983017996	1	3.31E+00
1.08E+00	-0.573663405	1	1.64E+00
1.61E+00	-0.046837489	4	9.13E-01
4.67E-01	0	1	6.16E-01
5.57E+00	-0.029737829	3	7.86E-01

4.90E-01	0.277128509	8	2.86E-01
2.19E-01	0.205406457	5	4.17E-01
2.86E-03	1	46	1.27E-11
4.65E-02	2	13	3.68E-05
1.47E-01	-0.247861995	4	1.69E+00
2.17E+01	-0.095935094	14	3.78E+00
3.02E+08	-0.547352397	28	1.21E+04
9.70E-02	0.455526431	16	4.48E-02
1.67E+01	0.672259905	14	1.10E-02
4.21E-01	-0.334573308	1	1.09E+00
5.41E+00	0.058618574	13	1.10E+00
4.82E-22	3	29	1.91E-17
6.70E-04	1	6	3.43E-03
3.78E-01	0.161494563	4	4.82E-01
4.20E-01	0.00521308	3	7.18E-01
1.99E+00	-0.010350075	6	9.74E-01
6.63E-01	0.846387682	5	4.36E-02
4.31E-03	1	7	5.09E-03
4.73E-05	2	8	4.98E-05
7.28E-13	3	20	8.41E-12
1.24E-02	2	7	1.17E-03
1.15E+01	0.028300587	24	2.98E+00
2.15E+01	-0.481124826	6	6.33E+00
7.86E+06	-1	18	7.42E+05
1.94E+00	-0.498417571	8	1.26E+01
1.14E+00	-0.709257915	3	4.66E+00
5.07E-01	-0.037755579	2	7.26E-01
7.14E+00	-0.043892402	4	9.05E-01
4.63E+07	0.169511555	82	7.97E-01
3.68E-01	1	10	2.89E-04
1.83E+00	-0.133391926	7	1.83E+00
4.90E-10	2	20	6.52E-11
1.63E-01	2	2	2.21E-02
2.41E+09	-0.577938509	38	5.84E+05
5.96E+04	-0.342374271	18	6.38E+01
2.42E-13	1	50	5.39E-12
8.75E+05	-0.692359181	22	8.41E+03
1.63E+01	-0.880983968	3	7.30E+00
4.46E-21	1	61	1.99E-16
1.08E-02	2	1	4.24E-02
1.51E-01	-1	5	3.83E+01
1.65E+00	0.120535572	3	5.31E-01
4.28E+09	-0.483382609	51	5.19E+06
1.05E+04	-0.373130996	15	4.00E+01
8.44E-01	0.414355963	3	2.46E-01
3.69E+00	-0.240377269	12	7.71E+00
3.53E-01	1	5	7.92E-03

1.79E-02	2	6	1.06E-03
2.29E-01	0.229867883	4	3.90E-01
2.48E-02	2	7	8.52E-05
5.17E-02	2	2	2.20E-02
1.07E+03	-0.420458441	9	1.13E+01
5.45E-02	0.399346927	16	7.22E-02
7.57E-01	-0.217097341	5	1.85E+00
6.81E-01	0.733610559	10	1.87E-02
4.80E-05	1	25	4.59E-06
3.62E-01	0.989135615	7	1.27E-02
2.11E-01	0.338031338	3	3.00E-01
8.03E-03	2	4	6.89E-04
1.48E-01	0.829783547	3	8.29E-02
2.55E-02	1	4	1.49E-02
2.20E-01	0.547559501	5	1.25E-01
4.12E-01	0.738908747	3	1.05E-01
4.10E-01	0.911163818	3	6.70E-02
2.10E+00	0.460914329	2	2.47E-01
8.47E-01	0.028421668	2	6.29E-01
6.48E+01	-0.148803769	9	2.66E+00
3.06E+00	-0.14990877	8	2.30E+00
1.50E+00	-0.114035071	10	2.53E+00
2.34E+00	-0.263132785	5	2.17E+00
2.71E+00	-0.727465677	14	4.59E+02
4.20E-02	1	6	5.01E-03
1.25E-06	1	27	1.07E-06
4.20E-01	0.570544559	6	9.67E-02
1.45E+00	-0.355000426	2	1.44E+00
7.41E+02	-0.687340202	7	2.13E+01
3.93E+01	-0.319854375	11	1.04E+01
5.34E+10	-2	19	1.09E+07
5.06E+00	-0.223277858	3	1.31E+00
1.71E+01	-1	4	2.35E+01
5.84E-01	-0.7323453	4	7.50E+00
7.90E+00	0.131692097	20	7.74E-01
2.33E+00	0.370894597	21	6.03E-02
1.79E+00	0.858743613	5	4.17E-02
2.15E+00	0.176534165	2	4.57E-01
3.71E+01	-0.063180272	8	1.50E+00
8.28E+00	0.408394257	20	4.46E-02
2.73E+00	0.0574682	16	1.32E+00
3.71E-01	-0.020987986	3	7.69E-01
4.38E-01	0	1	6.16E-01
3.28E+01	0.149100557	15	5.97E-01
1.62E+00	0.235257506	5	3.75E-01
5.44E+01	-0.713362979	5	1.06E+01
5.32E-03	0.311088854	10	2.16E-01

1.93E+03	-0.225030961	13	8.37E+00
2.84E+01	-0.880469743	4	1.18E+01
2.59E-01	0.698101286	6	5.82E-02
2.34E+01	0.371885081	6	2.13E-01
6.57E-02	0.983174978	8	9.09E-03
1.54E+00	1	10	2.49E-03
1.19E+00	-0.00139852	4	7.94E-01
3.27E-01	0.192335291	3	4.40E-01
1.07E+00	0.159879792	11	5.23E-01
6.68E+01	-0.31857524	20	8.05E+01
9.88E-02	1	6	1.49E-02
4.52E-14	2	26	4.19E-10
1.73E+02	-0.056646477	14	2.80E+00
1.10E+00	-0.166003514	10	3.41E+00
8.26E+02	-0.893159737	7	5.31E+01
2.49E+01	0.285240189	9	2.62E-01
3.54E-06	1	15	2.73E-05
1.70E-02	0.803438615	8	2.19E-02
5.03E+00	-0.020343983	19	3.38E+00
1.60E+03	-1	10	3.48E+03
9.27E-01	0.141446843	9	5.65E-01
3.78E-01	0.562926819	6	9.97E-02
1.59E+02	-2	6	3.64E+02
7.77E-01	-0.226672272	8	3.34E+00
4.39E+03	-1	12	1.90E+04
1.63E+00	-1	2	7.22E+00
1.48E-01	1	3	1.52E-02
3.21E-02	1	6	5.83E-03
2.58E-02	1	9	3.59E-03
8.18E+00	-0.417546934	6	4.92E+00
4.56E+02	-2	10	1.28E+04
5.32E+00	0.26262967	10	2.86E-01
2.98E+10	-0.350330681	37	6.85E+03
8.75E+00	-0.089324834	10	2.19E+00
2.49E-01	0.367132496	7	2.00E-01
3.19E-02	0.484300643	8	1.04E-01
5.23E-01	0.662945816	7	5.39E-02
5.76E-01	1	3	3.56E-02
4.28E-01	0.02139733	3	6.88E-01
4.20E-01	-0.000621774	3	7.29E-01
2.44E-01	-0.067614965	6	1.22E+00
1.31E-04	0.861870021	18	7.65E-04
1.34E-01	0.807691826	6	3.77E-02
1.48E-09	1	42	2.59E-10
7.51E-01	-0.112065365	2	8.53E-01
4.52E-01	0.188846437	4	4.43E-01
7.80E+01	-0.552607204	14	1.21E+02

8.14E-01	-0.239615471	2	1.12E+00
4.07E+00	0.572218371	25	3.42E-03
4.38E-01	0	1	6.16E-01
3.87E-03	1	12	7.89E-04
2.84E+00	0.866118448	4	5.53E-02
2.49E-01	2	6	8.37E-04
8.16E-02	0.842908353	9	1.34E-02
3.06E-05	1	10	2.64E-04
3.91E-06	1	45	1.76E-10
4.15E-01	0.079416747	2	5.63E-01
2.54E+00	2	5	4.08E-03
2.03E+13	-0.994929409	43	1.86E+10
1.45E+01	-2	4	8.23E+01
8.32E+01	-0.856433549	10	1.86E+02
1.24E-02	0.697332293	23	1.13E-03
5.46E+03	-2	10	7.82E+04
6.71E+06	-1	23	2.17E+07
3.30E+01	-0.451134744	12	3.16E+01
1.10E+00	-0.04759267	4	9.15E-01
1.03E+08	-2	13	1.67E+07
2.37E-02	0.276066228	5	3.25E-01
4.53E-01	0.169658419	8	4.83E-01
2.61E-03	0.64062876	14	1.40E-02
1.12E+00	0.299652556	14	1.87E-01
2.01E+00	-0.594556389	4	4.91E+00
3.51E+01	-0.994061997	6	4.87E+01
3.54E+01	-2	5	2.17E+02
2.36E+05	-2	8	5.06E+04
1.06E+02	0.124786982	8	6.01E-01
1.08E+00	0.363907923	4	2.59E-01
2.19E-01	0.444492756	8	1.26E-01
4.63E-02	1	5	9.38E-03
6.90E-02	-0.756113727	5	1.23E+01
5.51E-01	-0.408176464	3	2.12E+00
1.54E-01	-0.603630328	2	2.47E+00
1.25E-05	2	13	5.27E-06
1.07E-03	1	11	3.02E-04
8.63E+04	0.223511454	31	2.47E-01
3.15E-01	0.048166492	6	7.72E-01
4.48E-01	-0.330895272	7	4.40E+00
3.39E-02	0.707126246	3	1.14E-01
3.12E-01	1	6	1.43E-02
3.01E+00	1	4	8.17E-03
1.01E+00	1	5	6.71E-03
4.57E+01	-0.612022907	9	3.14E+01
2.11E-02	0.333715932	68	3.76E-03
1.73E-02	0.165782514	63	7.83E-01

9.25E-02	0.85704854	4	5.69E-02
4.17E-02	1	5	4.83E-03
7.51E-02	-0.059579168	9	1.65E+00
2.00E+02	-0.150862612	12	4.23E+00
2.67E-01	0.161430555	17	5.52E-01
3.66E-01	-0.052609194	2	7.50E-01
7.61E-03	-0.14377967	3	1.06E+00
2.81E+00	-0.750830265	4	7.93E+00
4.55E-01	-0.025392138	1	6.43E-01
1.23E+00	-0.377477358	3	1.95E+00
7.53E+00	0.197915055	10	4.15E-01
1.06E+00	0.822778557	2	1.13E-01
4.69E-02	1	10	5.09E-04
6.56E-01	-1	3	1.55E+01
4.20E-01	0	3	7.28E-01
4.11E-01	0	4	7.91E-01
4.11E-01	0	4	7.91E-01
4.38E-01	0	1	6.16E-01
5.72E-01	0	2	6.69E-01
4.20E-01	0	3	7.28E-01
4.11E-01	0	4	7.91E-01
4.11E-01	0	4	7.91E-01
4.96E-01	0.144360994	1	4.81E-01
2.25E-03	1	14	6.60E-04
7.70E-01	0.637633987	7	6.03E-02
2.81E-02	0.465434847	13	6.03E-02
7.71E+03	-0.034079191	27	8.55E+00
3.37E+02	-0.237939932	12	7.59E+00
1.75E+00	0.178850846	13	4.67E-01
8.56E-02	0.514601845	28	4.51E-03
6.48E+04	-0.051721622	29	1.34E+01
3.44E-01	0.132396454	4	5.27E-01
1.94E-03	0.681054135	14	1.03E-02
4.47E-01	-0.0167546	1	6.34E-01
4.62E-01	0.41476573	3	2.46E-01
1.44E+00	0.049801094	11	1.04E+00
8.82E-01	-0.22646167	5	1.91E+00
1.34E+00	0.276598824	8	2.86E-01
4.64E+00	0.314144614	12	1.88E-01
3.05E+00	-0.18431437	10	3.79E+00
9.30E-02	0.773971288	22	6.02E-04
7.00E-02	0.859678634	4	5.64E-02
8.03E+00	-0.146086383	14	5.53E+00
1.02E+00	0.071040343	1	5.45E-01
9.63E-01	-0.074868442	9	1.79E+00
3.89E-01	0.50382382	7	1.09E-01
9.69E-01	-0.252571586	6	2.55E+00

4.04E-06	0.907532867	18	4.98E-04
6.58E-03	1	15	4.89E-04
5.54E+01	0.050101905	3	6.38E-01
2.33E-16	2	29	3.63E-14
3.37E-01	0.064014537	3	6.15E-01
2.31E+01	0.037680976	10	1.05E+00
8.77E-01	-0.060186657	6	1.19E+00
4.66E-01	-0.038615511	1	6.58E-01
5.02E-03	0.831115752	56	1.51E-08
3.29E-02	1	4	1.70E-02
2.21E+08	-2	16	1.50E+07
8.50E+00	0.286190003	5	3.14E-01
1.18E-06	2	19	2.33E-07
8.14E-02	0.978170846	4	3.92E-02
4.80E+00	-0.699689395	4	6.78E+00
3.20E+04	-2	5	1.91E+03
4.47E+00	-0.367022532	5	3.13E+00
1.05E+03	-0.804176964	12	3.36E+02
8.35E+02	-0.570131987	6	9.02E+00
5.51E+01	-0.449620602	15	7.40E+01
4.34E-01	-0.01866448	1	6.36E-01
2.03E+00	-1	2	9.55E+00
1.90E+00	-0.555538321	9	2.33E+01
9.86E+06	-1	13	2.06E+04
9.74E-01	-0.41214902	4	2.80E+00
9.31E-01	0.350006629	13	1.38E-01
1.61E+00	0.072900143	22	1.57E+00
9.11E+02	-2	8	1.47E+04
1.64E+03	-0.448564291	29	4.06E+03
3.12E+00	-0.174503091	10	3.58E+00
3.12E+00	-0.049861971	6	1.14E+00
2.38E-01	0.969070499	12	2.35E-03
2.19E-01	0.360252304	3	2.83E-01
2.15E-20	3	27	2.23E-17
1.14E-04	4	2	3.09E-04
8.74E-02	1	8	2.90E-03
3.77E-03	1	6	2.73E-03
6.36E-08	2	10	2.73E-06
3.35E+01	-0.349337553	14	2.59E+01
4.98E-01	-0.222601032	3	1.30E+00
1.04E+00	0.183972584	12	4.50E-01
1.63E-09	1	27	1.30E-07
4.88E+00	0.084544159	4	6.10E-01
2.13E+01	0.614800485	8	5.49E-02
3.74E+00	0.675790011	20	2.83E-03
4.24E+00	0.327202177	29	5.76E-02
3.30E+00	-0.362557844	2	1.47E+00

8.10E+02	-0.771649263	13	4.16E+02
4.32E+02	-0.249637656	22	5.86E+01
1.02E+01	-0.224585803	7	2.75E+00
2.49E-02	0.166371635	15	5.19E-01
4.75E-01	0.02114117	2	6.39E-01
2.96E-01	0.279612276	16	2.00E-01
8.14E-19	2	42	3.22E-14
1.18E-01	0.952554229	13	1.86E-03
1.47E+02	-0.15682321	10	3.24E+00
6.30E+00	0.469695075	7	1.27E-01
4.76E+01	0.317835331	29	6.59E-02
6.54E-01	0.694927984	14	9.28E-03
4.88E+01	-0.514554588	13	6.63E+01
2.84E+00	0.452552317	9	1.07E-01
2.58E+00	0.534870081	7	9.51E-02
7.74E+03	0.42038164	30	1.35E-02
5.19E+02	-0.604605355	3	3.54E+00
1.42E+01	-0.095937992	4	1.06E+00
5.71E-01	2	7	9.90E-04
3.81E-02	2	6	9.29E-04
9.88E+01	0.496985363	9	8.47E-02
1.05E+02	0.521554047	19	1.62E-02
2.62E-01	1	1	6.08E-02
1.83E-12	1	38	1.67E-09
2.94E-01	0.357664414	1	3.34E-01
6.81E-03	1	5	2.20E-02
8.33E-02	0.426983561	7	1.53E-01
3.60E-12	2	28	9.62E-13
2.48E-01	0.642309375	5	8.94E-02
2.42E-03	0.664413859	11	2.25E-02
7.16E-03	0.374729273	7	1.93E-01
1.79E+04	-0.429037341	22	4.38E+02
4.09E-01	0.008458618	2	6.57E-01
4.34E-01	1	11	2.19E-03
1.90E-02	1	8	6.90E-03
7.29E-02	0.196809342	4	4.32E-01
1.32E-13	2	21	4.41E-11
1.47E-02	1	8	1.54E-03
1.69E+00	0.406473299	9	1.37E-01
1.31E+00	0.254414651	5	3.51E-01
3.12E-02	0.678758534	18	4.29E-03
1.31E-01	0.984418342	2	7.94E-02
8.98E-02	0.741340193	7	3.81E-02
3.88E+01	-0.06191945	19	5.10E+00
6.92E-19	3	29	2.68E-18
2.23E-02	0.585043941	8	6.35E-02
2.72E+00	0.565637369	16	1.76E-02

5.43E+00	-0.141263626	5	1.41E+00
5.04E+02	0.412415701	6	1.81E-01
2.18E+04	-1	10	4.98E+03
1.10E+03	-2	6	4.81E+02
8.42E-01	-0.110546739	2	8.50E-01
7.04E-05	1	19	1.14E-05
1.76E-01	0.831239275	25	1.31E-04
1.68E-05	1	15	1.27E-05
3.15E+00	0.494482505	5	1.51E-01
5.01E-01	0.010913848	4	7.65E-01
6.18E+03	-0.989361667	21	1.39E+05
1.66E+04	-0.247129253	11	6.63E+00
1.25E+01	0.567596115	9	5.81E-02
1.05E-03	1	11	1.93E-04
6.74E-01	0.374229237	4	2.51E-01
7.72E-03	2	6	1.33E-03
1.66E-13	2	32	2.98E-11
5.07E+03	-0.907070254	10	2.49E+02
4.14E+00	0.204369459	8	4.07E-01
4.61E+02	-0.678489748	10	6.62E+01
1.19E+02	-0.899388763	11	3.89E+02
4.36E-01	0	1	6.16E-01
4.63E+01	-0.054362308	10	1.79E+00
2.15E-01	-0.168090626	2	9.63E-01
4.07E-01	-0.044539242	5	1.01E+00
2.56E+00	-0.257055815	5	2.13E+00
5.11E+13	-1	23	1.97E+07
2.89E+00	-0.857474639	3	6.87E+00
1.94E+00	0.118393231	8	6.20E-01
9.83E+00	0.383503159	2	2.92E-01
8.01E+02	-0.776495884	16	1.59E+03
6.00E-02	0.419148255	10	1.15E-01
8.67E+04	-0.178405921	22	2.63E+01
3.40E-02	0.233892248	10	3.37E-01
2.86E+00	0.957837511	19	2.19E-04
1.34E+00	-0.179183976	4	1.37E+00
2.06E-01	0.213684698	29	2.95E-01
3.87E-03	3	2	2.50E-03
6.96E-06	2	7	1.64E-05
3.76E-04	2	3	1.43E-03
1.29E-03	1	3	3.86E-02
4.36E-01	1	18	4.35E-06
1.67E+00	2	11	1.25E-05
2.99E+03	-0.206431355	22	3.61E+01
2.82E+00	0.135839699	6	5.45E-01
9.12E+00	0.198483531	7	4.22E-01
1.23E-01	0.644251912	5	8.88E-02

1.88E-02	0.962871942	14	1.21E-03
6.62E+02	-0.77445633	6	2.03E+01
1.51E+01	-0.521495104	3	2.85E+00
1.10E+07	-0.906213883	23	1.52E+05
4.59E+01	0.878815547	28	2.81E-05
1.16E+00	0.040993159	4	6.97E-01
4.86E+05	-0.821477863	24	8.91E+04
4.46E+01	-0.985869882	3	9.61E+00
1.30E+01	0.426591076	10	1.11E-01
5.54E-01	0.418205736	2	2.71E-01
6.32E-01	-0.088868449	1	7.17E-01
6.01E+02	-2	3	6.23E+01
9.51E+14	-2	26	3.10E+12
3.24E+00	-0.392299556	7	5.78E+00
4.61E+00	-0.204567979	9	3.58E+00
8.15E+02	-0.31818691	14	2.05E+01
1.64E-07	2	24	2.89E-08
5.56E-01	0.418534817	10	1.16E-01
8.60E-11	2	20	3.20E-08
3.33E-13	2	19	6.24E-10
3.97E+04	-0.329980656	24	2.30E+02
7.78E+10	-1	26	1.27E+09
1.01E-07	2	17	2.44E-07
2.99E+01	-0.082128611	19	6.22E+00
1.12E+00	0.204801301	4	4.22E-01
1.54E-04	1	16	2.07E-04
1.19E+00	0.832666619	6	3.41E-02
2.21E+03	-0.229987317	12	7.19E+00
4.47E-01	0	1	6.16E-01
7.43E+00	-0.327217338	6	3.43E+00
2.98E-03	0.6519641	12	1.96E-02
2.33E-12	2	25	5.06E-10
2.59E+05	-0.631704083	45	2.09E+07
9.38E+01	-1	7	9.11E+01
8.68E+00	-0.259172378	15	1.60E+01
1.09E+00	0.101436587	6	6.24E-01
4.49E+04	-0.821816776	14	9.39E+02
4.37E-01	-0.003201605	2	6.74E-01
6.24E+00	-0.208531232	6	2.14E+00
2.74E+02	-0.558626605	13	9.08E+01
8.62E+04	-2	6	1.76E+03
6.43E+08	-2	14	1.01E+07
1.54E+00	-0.563782898	4	4.47E+00
4.08E-01	0.024834643	3	6.82E-01
1.45E+00	0.357584162	9	1.78E-01
1.34E+07	-0.84210528	35	1.90E+07
1.73E+11	-2	30	1.71E+12

2.47E+03	-3	5	2.78E+04
7.76E+02	-0.732718805	14	4.77E+02
2.62E+01	-0.633920146	13	1.56E+02
1.18E+01	0.244692987	14	2.84E-01
8.34E+00	0.610739625	6	8.24E-02
4.36E+01	0.290414767	8	2.68E-01
5.82E+02	-0.707649013	11	1.17E+02
3.28E+00	0.351428262	34	2.78E-02
4.86E-01	0.0111110573	1	6.04E-01
1.86E+00	1	8	6.45E-03
2.30E+00	-0.81196062	3	6.10E+00
1.06E+01	-1	3	2.03E+01
2.85E+00	-0.559371703	3	3.15E+00
3.00E+01	-1	7	1.47E+02
8.14E-01	-0.986088163	4	1.63E+01
2.08E-01	-0.12067694	4	1.15E+00
1.52E-05	1	26	7.47E-06
2.98E-04	1	9	1.85E-03
1.27E-04	2	6	2.01E-04
2.27E+00	0.426895078	9	1.23E-01
3.61E-01	1	3	2.39E-02
3.99E+00	0.758573595	8	2.72E-02
1.57E-08	1	28	1.07E-07
1.63E-01	0.303600038	17	1.54E-01
1.13E+01	0.137284098	8	5.65E-01
7.75E+00	1	4	2.36E-02
4.83E-01	0.666746587	6	6.60E-02
6.13E+01	0.441132417	32	7.88E-03
1.45E+00	-0.663487057	2	2.82E+00
3.19E+02	-0.443426771	10	1.70E+01
4.68E-01	-0.006119802	28	6.39E+00
1.33E-01	0.152337788	5	5.03E-01
5.85E-02	1	3	5.27E-02
4.08E-01	0.854341498	6	3.13E-02
4.21E-01	0.88456624	8	1.47E-02
4.37E-01	0.583019275	2	1.89E-01
5.70E-01	0.677389806	23	1.42E-03
6.72E-02	0.594923164	14	1.98E-02
4.54E-01	0.311445178	3	3.22E-01
3.61E-02	1	4	1.04E-02
6.24E-03	0.739574129	11	1.41E-02
9.06E+02	-0.814813696	15	1.40E+03
1.55E+00	0.243182378	11	3.11E-01
3.95E+01	-0.636015246	11	7.51E+01
3.15E-02	-0.043574732	6	1.11E+00
1.32E-01	0.348416082	4	2.71E-01
1.97E+00	0.261170065	2	3.80E-01

5.87E-08	1	32	5.60E-10
2.56E+00	0.341937031	2	3.19E-01
2.40E+00	-0.53719361	3	2.97E+00
2.68E+01	-1	5	6.44E+01
4.99E-01	-0.151175219	5	1.46E+00
7.12E-01	-0.304765953	5	2.52E+00
1.38E+02	-2	7	1.06E+03
3.10E+01	-1	4	1.89E+01
3.94E+00	0.079874745	4	6.19E-01
1.24E-06	1	37	3.17E-08
3.37E-02	1	2	5.36E-02
2.18E-01	0.024992874	8	9.78E-01
1.57E-01	0.058491892	7	7.84E-01
1.54E+00	-0.321889858	4	2.13E+00
5.87E+01	-0.347926158	7	4.74E+00
2.82E+00	-0.712611841	3	4.70E+00
1.86E+04	-0.600569915	20	1.48E+03
3.34E+01	-0.869260986	9	1.24E+02
2.22E-01	-0.008928404	5	8.87E-01
3.20E-01	-0.314762198	3	1.66E+00
6.18E+01	-0.072481168	9	1.77E+00
4.05E-10	2	26	1.57E-11
9.08E-02	0.548282405	12	3.93E-02
7.36E-02	0.530753126	5	1.32E-01
1.22E+01	-0.267810151	8	4.08E+00
8.29E+04	-0.517051547	18	3.30E+02
4.27E+01	-0.586861395	11	5.53E+01
1.47E+02	-0.270229966	9	5.08E+00
1.17E-03	1	11	4.05E-04
3.32E+03	-1	9	6.44E+02
1.71E+00	-0.445842358	6	5.50E+00
1.63E+04	-1	12	1.17E+04
2.81E+01	-0.75936537	6	1.91E+01
1.79E+01	-0.195916747	11	4.82E+00
1.53E+00	0.378181236	14	1.03E-01
8.18E-02	1	6	7.95E-03
1.90E-10	2	37	1.13E-11
1.63E-01	0.292155679	7	2.79E-01
9.51E+01	-0.264354877	12	9.05E+00
2.76E-01	0.091738986	5	6.22E-01
9.53E-04	1	7	1.44E-03
4.38E-01	-0.037922557	1	6.57E-01
6.32E-01	-0.209292498	3	1.26E+00
6.08E+00	-0.806109173	7	3.61E+01
7.32E-01	-0.229082158	5	1.93E+00
5.16E+01	-0.634356459	9	3.54E+01
3.34E+02	-0.882052684	8	8.19E+01

9.50E+00	-0.616787531	6	1.09E+01
1.02E+02	-0.274500389	10	6.39E+00
2.05E+00	-0.164513803	6	1.80E+00
2.45E+00	0.15688385	18	5.82E-01
5.30E+01	-0.093038519	24	1.30E+01
5.82E+01	-0.381297526	13	2.56E+01
6.63E-21	2	36	1.04E-17
2.07E-02	0.864818624	11	6.43E-03
1.98E-02	0.931787872	10	5.94E-03
9.17E-05	2	5	2.73E-04
1.04E-02	2	3	1.19E-02
1.40E-02	2	3	5.60E-03
3.91E-10	3	11	8.27E-08
8.37E-01	0.428751361	5	1.90E-01
6.60E+01	-0.060344861	19	5.02E+00
9.00E+00	-0.733214103	6	1.73E+01
1.16E-06	1	17	1.26E-04
1.74E-05	0.917968919	16	8.77E-04
5.06E-01	0.620647674	12	2.42E-02
1.15E+01	-0.05260617	19	4.65E+00
2.64E-01	1	3	1.66E-02
1.72E+00	1	13	3.73E-04
3.56E-03	0.262592781	17	2.23E-01
2.22E-01	0.758028817	6	4.59E-02
1.21E-01	1	3	2.89E-02
2.40E-01	2	2	2.08E-02
3.94E-02	0.618456365	5	9.73E-02
2.52E-01	0.067963263	5	6.77E-01
3.62E-01	-0.378135393	7	5.42E+00
5.77E+01	-0.841288732	9	1.07E+02
8.75E+01	-0.210486066	11	5.28E+00
6.04E-01	-0.087515532	3	9.15E-01
4.11E-01	-0.192949655	4	1.43E+00
4.38E-01	0	1	6.16E-01
3.47E-04	2	8	1.78E-04
8.20E-03	0.623728481	18	7.20E-03
3.24E-01	-0.021601299	4	8.45E-01
2.18E-02	0.842817955	15	2.24E-03
2.43E-01	-0.170759137	6	1.84E+00
3.79E-11	3	13	3.78E-09
6.55E-02	0.617667242	5	9.75E-02
7.86E+03	-0.383727074	23	3.41E+02
8.44E+00	-0.074600596	13	2.86E+00
7.18E-08	1	34	1.66E-07
1.43E+00	-0.46977745	2	1.85E+00
2.78E+05	-2	7	1.36E+03
4.35E-01	-0.035996491	4	8.83E-01

6.84E+00	-0.274307792	6	2.78E+00
6.66E+01	-2	4	9.62E+01
4.26E-01	-0.00573436	3	7.39E-01
4.38E-01	0	1	6.16E-01
3.05E+01	-0.226932759	19	2.60E+01
1.87E+00	0	1	6.16E-01
1.52E+03	-0.090256806	7	1.52E+00
8.55E+07	-2	17	7.64E+07
9.08E-01	-0.438920018	2	1.73E+00
2.66E+01	-0.10682408	9	2.12E+00
2.01E+02	-0.490860479	7	8.94E+00
1.41E+01	0.190237306	28	4.14E-01
7.23E-02	0.081525617	13	9.37E-01
2.98E+02	0.287156784	27	1.12E-01
1.79E+00	-0.475747316	2	1.87E+00
5.43E-01	-0.132811886	3	1.03E+00
5.00E+00	0.424604102	8	1.39E-01
1.88E+01	-0.169417722	7	2.15E+00
1.67E+01	-0.677640494	4	6.34E+00
3.61E+01	-0.413633381	3	2.15E+00
2.43E+02	-0.20297021	12	6.00E+00
1.39E+00	-0.601758124	3	3.52E+00
9.62E-01	-0.694370642	3	4.48E+00
8.58E+00	-0.219920698	9	3.88E+00
1.72E+00	-0.08716266	4	1.03E+00
1.26E-03	2	9	3.52E-04
4.38E-01	-0.063604631	1	6.86E-01
7.41E-01	0	2	6.69E-01
4.44E-01	-0.475747316	2	1.87E+00
2.84E+00	-0.080022636	4	1.01E+00
3.50E+00	-0.413434872	5	3.69E+00
1.48E+01	-0.750831785	5	1.21E+01
3.87E+02	-1	6	1.08E+02
5.64E+00	-0.798768941	2	3.77E+00
1.01E+04	-0.948263929	9	1.89E+02
2.31E+00	-0.20101902	21	2.85E+01
7.02E+00	-0.267355064	9	5.00E+00
1.15E+00	-0.486495508	2	1.92E+00
4.15E+02	-0.207406921	7	2.55E+00
4.69E-01	-0.091116548	5	1.19E+00
1.36E+01	-0.003106157	7	1.03E+00
7.99E-03	0.695051069	19	2.92E-03
1.08E+00	-0.00501286	19	2.91E+00
1.44E+04	-0.170008212	13	5.65E+00
4.67E-01	0.332855995	5	2.66E-01
2.25E+00	0.154676656	5	4.99E-01
7.67E-01	0.229871058	4	3.90E-01

4.05E-01	0.037667618	1	5.77E-01
1.46E-02	0.260774287	6	3.31E-01
2.19E-01	0.197838778	8	4.21E-01
9.47E-03	0.696749085	15	7.26E-03
1.03E+06	-1	14	5.57E+03
4.43E-01	-0.000918164	3	7.29E-01
1.58E-01	-0.14257468	6	1.65E+00
6.39E-02	1	4	3.54E-02
2.41E-01	-0.206075435	6	2.12E+00
1.91E+00	-0.33449877	3	1.75E+00
3.27E-01	-0.135633101	10	2.86E+00
5.71E-03	-0.304588042	8	4.89E+00
5.23E-01	0.784693898	11	1.06E-02
8.95E-02	0.362153172	14	1.16E-01
2.76E+00	-0.786897738	8	5.15E+01
8.05E+01	-2	3	8.24E+01
1.64E+04	-1	11	1.00E+04
8.79E-04	0.931469595	14	1.54E-03
1.92E+00	-0.419369959	6	4.95E+00
2.36E+12	-0.333599539	93	2.57E+09
2.07E-01	0.677299343	11	2.07E-02
4.36E-07	2	16	1.10E-06
3.57E-01	0.010779937	2	6.54E-01
5.63E-01	0.185971967	1	4.48E-01
1.65E+00	-0.001159756	4	7.94E-01
1.35E+04	-0.744065061	7	2.74E+01
4.51E-10	2	37	1.70E-11
1.07E-01	1	6	9.82E-03
4.33E-01	2	2	5.49E-03
2.07E+00	0.307841338	10	2.20E-01
1.95E-01	1	17	1.91E-04
9.03E+01	0.687666492	6	6.07E-02
3.15E+00	-0.041984426	4	9.00E-01
3.91E-01	0.967063211	2	8.24E-02
1.78E+04	-0.193413187	30	1.22E+02
2.85E-02	0.942301808	17	5.06E-04
2.53E+01	-0.349933616	13	2.04E+01
1.47E+07	-1	21	1.87E+07
5.36E+00	-0.174799704	7	2.20E+00
3.78E+01	-1	7	1.13E+02
1.28E+03	-1	16	7.73E+04
3.16E-01	0.395694881	13	9.92E-02
6.02E-03	0.482908686	23	1.38E-02
2.92E+01	-0.034678757	18	3.53E+00
5.01E-02	1	6	1.15E-02
6.19E+00	-0.184817888	13	6.28E+00
2.44E-01	-0.09779785	3	9.40E-01

1.15E+01	-0.404142559	13	3.01E+01
3.56E+00	-0.50463827	7	9.50E+00
1.03E+01	-0.166237175	14	6.45E+00
2.66E-01	0.196585543	7	4.25E-01
1.86E-01	2	2	1.00E-02
3.48E-02	0.684755096	7	4.90E-02
2.38E+01	-0.160019688	26	4.00E+01
6.46E+02	-0.526148688	18	3.60E+02
4.38E+00	-0.110561915	4	1.11E+00
2.47E+01	0.240378397	6	3.59E-01
2.25E+00	-0.343500183	4	2.27E+00
3.12E-01	0.604691185	5	1.02E-01
2.21E+00	-0.477467164	5	4.62E+00
1.79E+04	-1	8	1.03E+03
3.14E+02	-0.176850033	9	3.08E+00
5.01E+05	-1	18	6.87E+04
1.88E+00	0.865354466	4	5.55E-02
1.99E+01	0.566813843	13	2.92E-02
6.14E-07	1	21	2.42E-06
8.99E+01	0.013751985	18	2.24E+00
4.24E-01	-0.279855861	1	9.94E-01
3.93E-01	-0.030738977	6	1.06E+00
7.82E-04	0.962895556	11	3.49E-03
1.16E+00	0.128882756	13	6.68E-01
1.52E-03	0.42665939	23	2.66E-02
1.61E-01	0.174664944	10	4.75E-01
3.44E-03	0.508598114	19	1.84E-02
8.04E-02	0.85243774	6	3.15E-02
1.27E-01	0.123719126	17	7.73E-01
1.75E-02	0.47204753	28	8.16E-03
3.38E-03	0.989069627	5	2.64E-02
2.55E-02	0.422367331	6	1.74E-01
1.27E+00	-0.398339039	11	1.70E+01
8.17E+00	-0.359315254	9	8.17E+00
3.22E-01	-0.029776053	9	1.41E+00
1.30E+05	-0.097818216	53	5.61E+02
2.45E-03	0.579774308	29	1.52E-03
1.00E-01	-0.117731493	13	3.89E+00
2.90E-02	1	17	3.62E-06
3.97E+00	0.126190865	8	5.97E-01
7.41E-01	0.442294927	8	1.27E-01
8.61E-01	-0.006684877	5	8.80E-01
5.00E+01	-0.191398102	25	5.08E+01
3.52E-01	-0.082988078	8	1.66E+00
7.19E-01	-0.448136297	5	4.17E+00
4.41E-01	0.09335583	1	5.25E-01
5.83E-01	0.892803699	2	9.68E-02

1.91E-03	0.742028899	28	1.89E-04
1.02E-03	0.930625006	24	5.28E-05
2.63E+00	0.214137453	8	3.88E-01
8.04E-01	-0.03894058	4	8.91E-01
7.74E-01	-0.480206495	4	3.46E+00
3.08E+04	-0.644861605	30	9.96E+04
7.75E+00	-0.432563724	11	2.11E+01
9.44E-01	-0.03529315	4	8.81E-01
3.93E-01	-0.020418205	11	1.61E+00
1.65E-01	-0.125053182	6	1.54E+00
4.91E+00	-1	3	2.75E+01
3.86E+00	-0.429748097	9	1.19E+01
1.78E-01	-0.329224763	8	5.51E+00
1.28E+00	0.149453429	5	5.08E-01
1.55E-01	0.205217303	11	3.94E-01
4.34E+00	0.809190736	6	3.74E-02
5.80E-01	0.124413754	12	6.71E-01
4.70E-01	0.25651731	5	3.48E-01
2.59E-01	0.22790283	8	3.63E-01
2.96E-01	0.02167175	10	1.15E+00
7.61E-02	0.42486155	11	1.00E-01
7.30E-01	0.369206394	7	1.98E-01
1.69E-07	2	13	7.96E-07
8.24E-02	2	1	1.24E-02
4.29E-01	0	2	6.69E-01
1.66E+03	-2	9	9.94E+03
3.07E+08	-1	18	1.08E+06
3.85E-01	-0.403842373	8	7.93E+00
6.93E+00	0.00861482	6	9.03E-01
1.59E-07	0.634279221	64	5.56E-07
3.37E+01	-0.588537948	10	3.94E+01
4.41E-01	0	7	1.02E+00
9.34E-01	-0.270135626	6	2.74E+00
7.50E-01	-0.112754529	9	2.19E+00
4.45E-01	-0.029879791	1	6.48E-01
6.87E-03	0.33810919	27	5.65E-02
1.12E-02	0.410339223	19	4.84E-02
1.18E-01	0.291343645	7	2.80E-01
1.54E-02	0.196873028	11	4.15E-01
2.79E-02	0.426039272	11	9.94E-02
4.27E+03	-0.497298935	24	1.75E+03
5.69E-02	0.676355842	11	2.08E-02
8.13E-02	0.70372542	3	1.15E-01
2.42E-04	2	12	2.58E-05
2.05E-01	0.253854134	15	2.57E-01
1.40E-03	1	6	1.56E-02
1.10E-07	1	17	1.10E-04

3.20E-01	0.283183821	9	2.65E-01
4.96E-02	0.162322439	11	5.15E-01
2.21E-01	0.879509	10	8.04E-03
9.16E-01	0.250017509	6	3.46E-01
2.49E-02	2	16	3.64E-06
4.19E+00	0.05124951	34	4.13E+00
5.54E+04	-0.717712704	24	2.53E+04
2.32E+01	-0.578632891	7	1.32E+01
4.76E-01	-0.174544567	11	4.22E+00
3.33E-06	1	24	9.85E-06
5.28E+02	0.171260374	39	5.76E-01
5.05E-01	-0.153504005	12	4.31E+00
1.96E-01	-0.00801619	12	1.63E+00
4.87E-01	0	3	7.28E-01
3.68E-01	0.001703724	8	1.10E+00
5.31E-04	1	6	4.45E-03
1.90E-03	0.408838306	21	4.01E-02
8.96E-01	-0.171801362	5	1.58E+00
1.58E-01	0.600807946	12	2.77E-02
1.74E+01	-0.488916361	9	1.63E+01
5.17E+01	-0.605192832	9	3.03E+01
4.01E+00	-0.174421555	30	9.24E+01
2.84E+02	-0.899131653	7	5.45E+01
5.16E+00	0.079940514	15	1.04E+00
5.47E-01	0.637667225	9	4.00E-02
7.34E-01	-0.148779679	9	2.66E+00
1.04E+01	0.194238873	13	4.19E-01
5.79E-01	0.042794737	2	6.10E-01
5.84E-02	1	6	1.09E-02
5.01E-02	0.260590158	24	1.78E-01
2.22E+01	0.288834941	11	2.34E-01
8.67E-01	-0.067224014	4	9.72E-01
9.81E+02	-0.65264171	24	1.15E+04
1.66E+07	-0.058954511	92	1.55E+04
8.13E+03	-0.857113247	11	2.98E+02
3.72E+00	-0.779932741	9	7.70E+01
2.71E+00	-0.499549521	10	2.35E+01
1.09E-15	4	12	1.12E-12
4.07E-01	0.034565942	1	5.80E-01
3.63E-02	0.980264528	4	3.90E-02
5.44E-02	0.874876915	6	2.88E-02
1.10E+00	-0.090467452	22	9.82E+00
8.88E-01	-0.407383643	2	1.62E+00
4.11E+01	-0.539784595	8	1.54E+01
2.29E+00	-0.008054367	4	8.11E-01
5.62E-01	0	9	1.20E+00
7.40E-04	0.377546747	34	1.80E-02

5.88E-06	1	22	3.07E-05
1.06E+00	0.0014815	15	1.96E+00
3.59E-01	0	4	7.91E-01
4.33E-01	-0.01859832	2	6.97E-01
1.88E+01	-1	5	7.27E+01
6.89E-01	0.018590621	6	8.68E-01
1.06E+00	-0.001041983	25	4.63E+00
2.35E+00	-0.636369124	4	5.58E+00
3.91E+03	-1	14	3.95E+04
2.07E-01	0.190056269	12	4.32E-01
7.81E-03	0.607709203	4	1.22E-01
3.74E-01	0.511231096	9	7.85E-02
1.21E+00	-0.070923347	4	9.83E-01
3.08E+01	-0.11459661	16	5.71E+00
1.21E+03	-0.35282173	38	9.14E+03
2.14E-01	-0.046024306	20	4.84E+00
3.25E-01	0	6	9.35E-01
4.65E-20	1	77	2.61E-16
7.85E-01	-0.337380124	5	2.82E+00
4.24E+03	-0.400768772	15	4.99E+01
1.40E+00	-0.134921828	5	1.38E+00
7.55E-01	-0.308109301	6	3.18E+00
9.38E-01	0	6	9.35E-01
5.29E-01	-0.055198983	4	9.37E-01
5.84E-01	-0.039373034	3	8.07E-01
2.60E-01	0.759432789	6	4.56E-02
1.33E-01	0.127174667	12	6.59E-01
6.84E-01	-0.191787775	4	1.43E+00
5.11E+02	0.200985239	38	3.31E-01
4.29E-01	0	2	6.69E-01
4.11E-01	0	4	7.91E-01
5.57E+01	-0.126788833	27	2.99E+01
5.01E+03	-0.27218095	20	4.99E+01
2.24E-02	-0.006683454	29	7.03E+00
4.81E-01	-0.022723381	7	1.12E+00
4.32E-01	-0.000266836	7	1.02E+00
3.81E-01	-0.002341801	8	1.12E+00
6.02E-18	1	49	1.40E-12
4.27E-23	2	37	1.33E-16
5.85E-02	0.885399898	5	3.80E-02
4.37E-03	0.709045091	9	2.73E-02
1.72E-07	2	24	4.63E-11
2.97E-01	0.911684256	6	2.49E-02
2.91E-03	1	10	7.30E-04
4.84E-04	1	13	9.85E-04
6.68E-02	0.375460809	13	1.15E-01
4.46E-09	3	9	1.67E-07

4.59E-01	0	6	9.35E-01
4.15E-01	0.025851939	2	6.33E-01
2.83E-01	-0.011816786	10	1.40E+00
1.59E+05	-0.752272996	36	6.25E+06
1.10E+01	-0.558316417	4	4.39E+00
2.21E+01	-0.145544124	22	1.82E+01
7.56E-01	-0.013062464	18	2.88E+00
2.95E-05	0.449754537	27	1.25E-02
1.51E+01	-0.279868934	6	2.84E+00
8.15E-01	-0.425808001	6	5.08E+00
5.16E-01	-0.056382197	32	1.99E+01
4.37E-01	-0.00063112	19	2.79E+00
4.12E-01	0.006799793	3	7.15E-01
4.20E-01	0	3	7.28E-01
1.91E+00	-0.202007632	10	4.20E+00
1.03E+01	-0.2478555	9	4.51E+00
4.09E-01	-1.08E-06	15	1.98E+00
3.91E-01	-0.002387052	6	9.44E-01
1.70E-01	0.243602659	23	2.25E-01
8.72E+06	-0.320879769	76	3.03E+07
1.17E+00	-0.041756688	12	2.04E+00
5.60E-06	2	11	1.24E-06
3.45E+00	-0.00984287	8	1.16E+00
3.50E-01	0.686392513	7	4.86E-02
4.51E-01	0.025249801	8	9.77E-01
5.28E-01	0.189363518	8	4.38E-01
6.43E-01	0.157187086	5	4.94E-01
4.64E-01	-0.415225646	4	2.83E+00
3.10E-01	-0.069527456	22	7.76E+00
7.37E-01	0	10	1.31E+00
4.49E-01	-0.015570453	1	6.32E-01
4.92E-01	-0.149730157	6	1.70E+00
6.01E-01	-0.376948959	5	3.25E+00
3.68E-01	-0.448274308	11	2.33E+01
3.52E-01	-0.011873954	16	2.38E+00
6.32E-01	0.166433429	10	4.98E-01
4.10E-01	0.01254549	3	7.04E-01
7.07E-01	-0.043050166	4	9.03E-01
1.07E+00	-0.185148007	2	9.99E-01
1.80E+00	-0.251611952	14	1.23E+01
6.88E-07	0.502494585	71	1.09E-05
3.77E-01	0	2	6.69E-01
6.64E+01	-0.61371303	9	3.17E+01
1.27E+02	-0.914082369	5	2.15E+01
5.12E+01	-0.885297996	8	8.32E+01
2.81E+00	0.666237059	9	3.44E-02
1.31E-05	3	7	5.60E-06

6.77E-01	0.117478887	4	5.51E-01
4.52E-01	0.02281653	8	9.88E-01
2.51E+00	0.379893491	4	2.46E-01
2.25E+03	-2	5	9.98E+02
1.05E+01	-0.602274129	10	4.26E+01
4.27E-01	-0.00268336	2	6.73E-01
6.33E-01	-0.231648833	5	1.94E+00
2.52E-02	0.733307295	7	3.95E-02
2.32E-02	0.538364897	7	9.36E-02
7.10E-01	0.103047184	6	6.20E-01
7.96E-02	0.18064147	32	4.77E-01
4.11E-01	0	4	7.91E-01
4.00E-01	0.018815302	3	6.93E-01
2.02E-01	0.254551844	3	3.74E-01
5.27E-01	-0.120819239	5	1.32E+00
1.63E+00	-0.168557782	5	1.56E+00
3.54E-01	-0.013014304	11	1.54E+00
1.77E-01	0	11	1.42E+00
1.17E-09	2	19	6.52E-09
4.55E-08	3	12	1.00E-08
6.97E-02	0.653758789	2	1.62E-01
4.11E-01	0.030335848	1	5.84E-01
4.29E-01	0	2	6.69E-01
1.08E-01	0.580813499	9	5.42E-02
1.00E+02	0.143820472	8	5.47E-01
1.77E-03	1	7	7.75E-03
9.56E-03	0.38946452	24	3.74E-02
2.48E-03	0.392500153	37	1.06E-02
7.06E-02	1	11	1.27E-04
2.62E-02	0.471471763	39	1.97E-03
4.94E-02	0.211223989	12	3.75E-01
2.97E+06	0.156027357	31	6.94E-01
6.12E-01	-0.217819608	3	1.29E+00
2.00E+03	-0.628836905	28	3.76E+04
7.91E-01	-0.322480686	3	1.69E+00
7.32E-01	0.007568343	9	1.15E+00
3.31E-01	0.049581992	13	1.18E+00
5.50E-01	-0.043845184	4	9.05E-01
2.21E+00	-0.378118388	5	3.26E+00
2.05E+01	-0.281075266	24	1.27E+02
8.84E-02	0.268583015	4	3.47E-01
1.42E-02	0.60097	6	8.57E-02
1.25E-02	0.210252159	5	4.10E-01
3.83E-02	0.178454716	15	4.71E-01
2.63E-01	-0.067522518	2	7.75E-01
2.98E-01	-0.350728035	6	3.77E+00
1.88E+00	-0.238728676	10	5.20E+00

2.37E+00	-0.304969027	11	9.52E+00
1.33E-01	0.11002051	29	1.31E+00
3.94E-01	0	11	1.42E+00
1.33E+00	0.045469827	17	1.56E+00
3.64E-01	0	5	8.60E-01
3.17E-03	0.354371585	23	6.18E-02
2.67E-03	0.131956357	43	1.33E+00
3.00E-01	0.038112514	17	1.67E+00
7.10E-01	-0.000420763	16	2.16E+00
2.01E-01	0.701232155	18	3.47E-03
2.94E-01	0.07855793	5	6.52E-01
1.08E+00	-0.102407288	5	1.23E+00
5.44E-01	0.013460179	44	1.68E+01
6.24E-01	0	3	7.28E-01
5.62E-01	-0.047567084	6	1.13E+00
5.54E-01	0.072801221	41	4.11E+00
1.06E+01	-0.488270692	13	5.49E+01
8.13E+02	-0.204059934	22	3.51E+01
9.05E+07	-1	21	7.99E+06
2.11E+02	-0.500411893	17	2.07E+02
2.13E+00	-0.355856308	6	3.85E+00
1.75E+01	-0.184617073	11	4.49E+00
3.39E-01	0.263159404	15	2.38E-01
1.12E-01	0.248036502	23	2.14E-01
2.22E+00	-0.12158177	19	9.18E+00
6.75E-01	-0.014837206	4	8.28E-01
4.38E-01	0	1	6.16E-01
1.32E+00	-0.07739125	20	6.69E+00
4.32E-01	0	2	6.69E-01
1.04E-03	0.078416594	81	2.51E+01
1.73E-02	-0.19939845	11	4.93E+00
1.09E+00	-0.085389876	7	1.48E+00
1.33E+01	-1	6	8.96E+01
1.18E+01	-1	2	1.03E+01
1.34E+01	0.171563171	15	4.98E-01
4.02E-01	-0.13383947	3	1.03E+00
5.73E-01	0	5	8.60E-01
1.01E+00	-0.273106554	34	9.16E+02
1.12E-03	1	3	1.52E-02
2.97E-01	0.115672255	42	1.81E+00
8.37E+00	0.141672304	17	6.59E-01
4.89E+01	-0.137246408	41	2.64E+02
3.56E+00	-0.331602805	10	8.90E+00
7.39E+00	-0.382289213	5	3.31E+00
3.47E+00	-0.023108819	3	7.73E-01
8.27E-01	-0.087684897	10	2.17E+00
5.13E-01	-0.000454332	10	1.31E+00

4.38E-01	0	1	6.16E-01
6.15E-01	0.172532636	25	5.22E-01
3.18E-01	0.282735234	13	2.22E-01
2.18E+00	-0.168235507	8	2.51E+00
6.21E+03	-0.822736907	19	9.25E+03
4.35E-01	-0.016585399	2	6.94E-01
3.99E+01	-0.239984351	14	1.13E+01
3.68E-03	2	6	4.05E-04
8.33E-03	1	9	1.18E-03
1.88E-01	0.538069805	2	2.09E-01
2.70E-01	0.146369074	12	5.79E-01
5.23E+02	0.033135562	12	1.24E+00
2.48E+00	-1	2	1.20E+01
1.61E-01	0.128510617	9	6.05E-01
5.62E-03	0.313733588	30	6.59E-02
4.90E-01	0.338654727	10	1.84E-01
6.32E-01	1	4	8.11E-03
5.09E-01	0.047617628	7	8.23E-01
6.89E-01	-0.182509554	2	9.94E-01
2.34E+08	-0.99692543	28	6.35E+06
4.77E-01	-0.082634345	6	1.30E+00
7.85E+01	-0.309740954	26	2.81E+02
4.48E-01	0.360012931	7	2.06E-01
2.87E-01	0.00983862	19	2.51E+00
4.11E-01	-0.003699847	4	8.00E-01
1.65E-02	0.214893724	13	3.61E-01
6.76E-03	0.439732171	25	1.81E-02
2.32E-01	-0.152815376	10	3.16E+00
2.52E+02	-0.543722615	16	2.20E+02
4.58E-01	-0.180476395	6	1.92E+00
3.41E+00	-0.858530652	3	6.89E+00
9.91E+03	-0.595666767	15	2.40E+02
4.83E-01	0.016211915	66	8.47E+01
6.58E-01	-0.083478834	5	1.15E+00
4.29E-08	0.31252868	94	1.64E-03
6.67E-03	0.981822744	7	1.31E-02
1.29E-08	2	21	6.93E-08
2.14E-03	0.317336479	34	4.91E-02
8.90E-02	1	5	6.22E-03
2.58E-01	0.008526368	26	4.45E+00
6.46E-01	0.291624688	22	1.35E-01
4.04E-01	-0.043859524	5	1.00E+00
1.09E-01	0.034833452	16	1.60E+00
1.33E-05	1	13	1.10E-04
6.01E-01	0.040962611	18	1.73E+00
2.84E-01	-0.013800147	21	3.80E+00
4.26E-01	0.015971972	2	6.46E-01

4.45E-06	0.450702262	63	1.62E-04
4.84E+03	-0.284144504	11	8.36E+00
3.66E+02	-0.792266308	13	4.82E+02
4.09E-01	-0.0160073	4	8.31E-01
4.34E-01	-0.176046768	6	1.88E+00
3.76E-01	-0.06107871	9	1.66E+00
5.58E-01	-0.096807238	9	2.01E+00
4.20E-01	0	3	7.28E-01
5.00E-03	0.832308684	12	5.88E-03
1.19E-05	1	24	6.32E-06
1.19E-05	2	11	6.09E-05
5.64E-02	0.190179073	6	4.39E-01
6.93E-01	-0.108890207	4	1.10E+00
6.21E+00	-0.025106725	9	1.37E+00
8.26E-01	0.07377784	10	8.52E-01
2.43E-02	0.090368011	7	6.81E-01
4.64E-01	-0.003112403	5	8.69E-01
4.48E+06	-0.730562398	19	3.73E+03
1.62E+01	-0.132216929	19	1.02E+01
3.75E-02	0.193497424	7	4.31E-01
4.17E+00	-0.408455005	5	3.63E+00
5.35E-01	-0.115703696	4	1.13E+00
4.38E-01	0	1	6.16E-01
6.80E+00	0.044819896	11	1.07E+00
3.72E-01	-0.02809764	17	3.01E+00
2.96E-01	0.74444017	3	1.04E-01
3.64E-01	1	6	5.41E-03
3.22E-03	0.308305423	13	1.85E-01
4.92E-03	-0.002227448	38	1.41E+01
6.44E-01	-0.090997554	1	7.19E-01
6.76E-01	0.861676761	4	5.61E-02
3.97E+01	-0.477124903	13	5.07E+01
4.20E+02	-0.747565042	12	2.30E+02
4.62E-01	-0.017727016	10	1.45E+00
4.48E-01	0.005717173	3	7.17E-01
5.02E-01	-0.470975141	16	1.18E+02
1.62E-01	-0.957327017	6	4.21E+01
6.35E-01	0.046309249	8	8.81E-01
1.15E+00	-0.034388993	10	1.59E+00
1.35E+00	-0.422079478	5	3.80E+00
5.31E+01	-0.032989997	31	1.25E+01
6.42E-01	-0.129091405	9	2.39E+00
3.90E-02	0.427012327	8	1.37E-01
3.03E-02	2	5	9.68E-04
1.34E-01	0.424068956	7	1.55E-01
2.46E+01	-0.133463477	12	3.77E+00
2.13E+12	-0.829420437	29	9.74E+05

1.68E-01	-0.045302676	3	8.19E-01
1.45E-03	-0.277802496	8	4.29E+00
7.42E-01	-0.080130145	8	1.63E+00
5.95E-01	-0.03424086	8	1.31E+00
7.13E+00	-0.047672865	21	5.47E+00
2.17E+00	-0.266232375	4	1.79E+00
1.14E+01	-0.806227494	9	8.86E+01
1.98E+01	-0.081028659	8	1.64E+00
9.67E-01	-0.266060563	6	2.69E+00
4.34E-01	-0.004394626	3	7.36E-01
5.25E+02	-0.384378606	18	9.48E+01
4.32E-02	0.138323561	16	6.65E-01
3.47E+13	-0.805627567	31	1.70E+06
1.21E-08	2	19	2.48E-07
2.49E+00	0.029241736	23	2.75E+00
7.13E-01	0.076558559	7	7.24E-01
7.00E-02	0.196910428	23	3.88E-01
1.53E-07	1	24	2.81E-07
7.48E-01	-0.025864715	9	1.38E+00
5.62E-01	0.019940622	12	1.35E+00
2.57E-02	0.292132574	22	1.34E-01
1.68E+00	0.242640275	11	3.12E-01
4.25E+00	-0.06829718	11	2.17E+00
2.98E-01	0.290079539	49	3.77E-02
9.63E-01	-0.904704268	10	2.45E+02
3.79E+00	-0.299227673	6	3.07E+00
2.61E-02	0.525470915	16	2.47E-02
1.51E+00	-0.080862769	3	8.99E-01
5.03E-01	-0.022547885	3	7.72E-01
1.22E+00	-0.196320989	17	1.36E+01
2.44E-01	0.593449137	8	6.10E-02
1.02E-03	0.711707596	17	3.99E-03
9.83E-02	0.443060598	6	1.61E-01
5.07E-01	0.425994427	6	1.72E-01
4.55E+00	0.628200596	10	3.44E-02
3.60E-09	2	15	4.35E-08
4.47E-02	0.670185542	25	9.97E-04
1.52E+00	0.956436256	5	2.96E-02
1.10E-01	0.085157805	16	1.04E+00
1.09E+01	-0.457493741	15	7.89E+01
3.37E+06	-0.944705959	25	6.62E+05
7.04E-01	-0.155149417	10	3.20E+00
3.49E-01	0.286114908	7	2.86E-01
1.23E+05	-1	19	4.54E+05
1.50E+02	-0.510002685	6	7.10E+00
1.03E-01	0.803480548	6	3.83E-02
1.55E+01	-0.637124429	8	2.48E+01

1.29E+00	0.269731856	11	2.64E-01
2.88E+00	0.22513961	6	3.82E-01
2.99E+01	-0.431610517	3	2.25E+00
1.06E+03	-0.083920534	6	1.30E+00
1.49E+00	0.523937366	7	9.98E-02
8.21E-07	0.924942896	28	1.48E-05
7.13E+01	-0.000459742	13	1.68E+00
2.09E+00	-0.050127183	6	1.14E+00
6.28E-01	0.058578678	6	7.40E-01
3.61E-03	0.680772553	16	6.59E-03
1.21E-01	0.60674773	5	1.01E-01
8.22E-02	-0.394786024	10	1.28E+01
7.30E-01	0.725483989	10	1.96E-02
2.25E+00	-0.157679549	5	1.50E+00
3.60E-01	0.098794245	8	6.82E-01
6.55E-01	0.250173272	4	3.67E-01
3.50E+01	-0.30317422	13	1.46E+01
5.91E+00	-0.309558307	3	1.64E+00
4.29E-01	-0.152148677	2	9.30E-01
1.64E-01	-0.072311348	1	6.97E-01
2.36E-01	-0.670115553	5	9.12E+00
5.62E-02	1	6	1.38E-02
1.99E+01	-0.898013771	12	6.29E+02
3.70E+12	-1	46	3.42E+13
9.93E-01	-0.284863211	7	3.59E+00
4.31E-01	0	3	7.28E-01
5.12E-01	0	3	7.28E-01
2.43E+07	-2	22	9.47E+08
5.07E-01	-0.439324146	4	3.05E+00
6.09E-01	-0.235027905	2	1.11E+00
8.17E-01	-0.391465807	5	3.42E+00
9.28E+00	-0.051088799	8	1.42E+00
1.48E+00	-0.010607548	25	5.22E+00
8.88E-02	0.807793475	16	2.24E-03
2.09E-02	1	7	6.32E-03
3.34E+00	0.191812217	4	4.39E-01
4.18E-05	2	7	9.06E-05
9.27E-02	1	7	1.68E-03
3.75E-02	0.57279306	23	4.82E-03
2.01E+00	-0.149186438	12	4.19E+00
2.88E+00	-0.186803319	6	1.96E+00
1.02E-04	2	7	3.57E-04
1.71E-06	2	12	5.05E-06
1.89E-01	0.476930538	5	1.60E-01
5.35E+00	-0.12929629	7	1.80E+00
8.72E+00	-0.065932114	4	9.68E-01
5.12E+02	-0.361388467	9	8.26E+00

3.25E+02	-0.774060587	11	1.78E+02
6.96E+05	-1	21	3.30E+06
1.18E+01	-0.223140283	13	8.26E+00
1.89E+02	-0.420868007	31	4.71E+03
2.11E+02	-0.128394192	33	7.14E+01
2.56E+02	-0.411257111	13	3.17E+01
4.19E-01	0.624688516	6	7.80E-02
3.91E-03	0.871854553	5	3.98E-02
1.05E+00	0.28231815	13	2.23E-01
1.68E-01	-0.206826387	7	2.54E+00
2.46E-07	3	7	1.23E-06
6.84E-01	-0.07950548	8	1.63E+00
2.22E+01	-0.025413511	12	1.83E+00
1.58E-01	0.284792767	10	2.51E-01
2.57E+02	-0.001372027	15	2.00E+00
1.10E-01	0.185218995	21	4.45E-01
9.05E+11	-0.746513784	36	5.65E+06
2.44E+07	-0.722231556	21	7.80E+03
2.96E+00	-0.22889503	4	1.60E+00
4.43E-01	0.448245384	4	2.00E-01
3.18E-01	0.179084184	3	4.55E-01
1.91E-04	2	8	1.36E-04
3.73E+00	0.766996778	6	4.43E-02
7.89E-01	0.762606048	2	1.28E-01
3.52E+00	0.051804213	7	8.08E-01
8.44E-11	1	53	6.35E-11
9.91E-01	-0.274256615	10	6.38E+00
6.49E+00	-0.203423628	5	1.76E+00
6.68E+02	-0.256889531	27	1.73E+02
1.27E+02	-0.593682747	9	2.85E+01
7.73E-02	0.133830402	14	6.60E-01
6.00E-01	0.576695041	8	6.61E-02
1.91E-06	0.773431022	51	2.65E-07
2.25E-03	0.216385416	25	3.00E-01
3.46E+00	0.162354088	4	4.80E-01
7.31E+02	-0.44678407	14	5.44E+01
5.37E+01	-1	6	5.86E+01
4.83E-01	-0.01109	5	8.94E-01
1.34E+00	-0.088663622	11	2.47E+00
3.41E-03	0.801558691	13	5.46E-03
1.73E+00	0.222370717	20	3.04E-01
4.58E+02	-1	12	1.67E+03
5.67E-02	2	8	6.53E-04
3.59E-02	0.587481832	18	1.01E-02
1.74E+03	-0.897729318	5	2.03E+01
2.05E-01	0	36	1.15E+01
3.45E-01	0	12	1.54E+00

3.76E-01	0	8	1.10E+00
4.02E-01	0	5	8.60E-01
4.02E-01	0	5	8.60E-01
3.76E-01	0	8	1.10E+00
3.41E-01	-0.030426143	42	3.50E+01
3.45E-01	0	12	1.54E+00
4.38E-01	0	1	6.16E-01
2.19E+00	-1	3	1.70E+01
9.28E+00	-0.235482083	16	1.60E+01
2.90E-01	0.309671775	2	3.42E-01
4.59E-01	0.196052528	1	4.40E-01
9.15E-02	0.190832209	6	4.38E-01
2.26E-09	1	31	2.04E-09
8.06E-06	2	11	7.33E-05
2.31E-01	0.357282403	1	3.34E-01
1.82E-01	0.55994982	6	1.01E-01
5.20E-03	0.479531335	14	4.77E-02
2.72E+00	0.009176193	5	8.32E-01
2.24E-11	2	30	8.93E-10
1.10E-01	0.068929535	31	2.63E+00
8.40E-01	-0.264590356	4	1.78E+00
2.05E+03	-1	5	3.49E+01
7.05E-01	-0.00875176	5	8.87E-01
1.04E+00	0.293903017	7	2.76E-01
1.24E+00	-0.349175084	11	1.25E+01
1.12E+00	0.214245042	8	3.88E-01
3.27E-01	0.117550942	27	1.11E+00
1.72E+00	0.923530854	9	8.71E-03
3.45E-01	0.037951833	18	1.78E+00
4.33E-01	0	2	6.69E-01
4.81E-01	0	3	7.28E-01
3.92E-01	-0.051176688	13	2.42E+00
1.17E+00	-0.237727253	13	9.17E+00
5.72E-01	0.115241021	23	1.01E+00
3.69E-01	0.262654746	15	2.39E-01
2.06E+01	0.908681982	11	4.89E-03
1.29E+05	-0.429024534	20	2.51E+02
3.73E+07	-1	35	3.12E+08
5.99E-01	0.057018656	2	5.91E-01
9.14E-01	-0.570486439	9	2.52E+01
7.39E-01	-0.036413113	4	8.84E-01
2.19E+01	-0.770373754	6	2.00E+01
1.12E-01	0.202933049	9	4.07E-01
2.17E-01	0.455769136	9	1.06E-01
4.85E-01	-0.260610412	5	2.15E+00
9.38E+00	-1	8	3.33E+02
3.94E+00	-0.278527082	4	1.86E+00

6.99E+09	-1	24	2.28E+07
1.20E+01	0.164114396	13	5.19E-01
8.34E-01	-0.173953795	2	9.75E-01
4.62E+03	-1	9	1.40E+03
1.39E+02	-0.574113775	19	7.97E+02
5.96E+00	0.580256442	13	2.65E-02
1.44E+01	-0.948843911	6	4.07E+01
1.35E+04	-0.873516189	21	3.98E+04
4.08E-01	-0.129028059	4	1.18E+00
1.31E+01	0.720964024	18	2.88E-03
2.57E-02	2	7	2.44E-04
5.34E+00	-0.459070233	8	1.04E+01
5.17E-01	-0.048260143	6	1.13E+00
2.26E+01	-0.000835864	69	1.85E+02
4.72E+10	-0.562335574	68	1.11E+10
5.83E+00	0.381378939	9	1.57E-01
8.75E-04	2	4	1.91E-03
2.86E-03	2	4	7.74E-04
4.82E-03	1	5	1.95E-02
4.73E-01	0.224604402	6	3.83E-01
2.32E+02	0.45281031	13	6.60E-02
7.09E-01	0.373228713	1	3.25E-01
2.21E-02	1	20	7.11E-05
1.17E-01	0.188355331	9	4.40E-01
6.12E-01	-0.155409913	5	1.49E+00
4.59E-02	0.520320611	18	1.90E-02
9.92E-01	0.337784316	12	1.61E-01
6.97E-01	0.745491235	9	2.25E-02
1.17E+00	0.674208567	16	6.97E-03
2.56E-02	0.691512045	9	3.00E-02
3.91E+00	-0.096022014	6	1.37E+00
2.49E+00	-0.145318389	18	1.00E+01
3.57E-01	0.513253136	2	2.20E-01
3.69E-03	0.347544714	10	1.75E-01
1.19E+00	-0.050656449	16	3.32E+00
4.46E-01	-0.010398952	1	6.27E-01
4.30E-01	-0.002392921	2	6.73E-01
5.37E-02	0.24417465	10	3.18E-01
4.38E-12	1	42	2.36E-10
1.06E+09	-1	29	4.47E+09
2.60E+01	-0.236306185	49	8.64E+03
2.28E+03	-1	13	9.21E+03
4.23E-01	0.073474301	7	7.34E-01
3.19E+03	-0.701327882	18	1.87E+03
8.92E+00	-0.226697352	14	1.02E+01
7.52E+00	0.052978678	21	1.85E+00
4.42E-01	-0.226909185	8	3.34E+00

2.77E+02	0.007406434	53	3.93E+01
5.75E+02	0.192533072	24	4.07E-01
4.05E-01	-0.041718002	10	1.66E+00
9.85E+02	-0.77410203	16	1.56E+03
2.76E+01	-0.400939485	7	6.00E+00
1.37E+00	-0.284495678	6	2.90E+00
9.83E+00	-0.952748832	6	4.13E+01
4.23E-01	-0.158474753	6	1.76E+00
1.69E+00	-0.142339098	3	1.06E+00
2.79E+00	-0.455407472	6	5.72E+00
1.04E+01	-0.337251137	17	4.80E+01
1.81E-04	0.601638985	14	1.89E-02
1.83E+00	0.832096611	21	4.20E-04
1.18E+03	-0.379854218	13	2.53E+01
2.60E-02	0.68490218	4	9.65E-02
3.72E-03	1	6	8.71E-03
2.72E-02	0.533847067	5	1.31E-01
1.10E-01	0.832936754	3	8.22E-02
9.22E-01	0.495719305	2	2.29E-01
1.61E+03	-0.261374346	6	2.64E+00
2.18E+01	-0.171184167	8	2.55E+00
1.40E+05	-1	12	1.73E+04
3.26E+00	-0.325704236	3	1.71E+00
4.10E+01	-0.89270829	7	5.30E+01
2.79E+00	-0.231033045	11	6.00E+00
2.12E+01	-0.209904472	96	2.05E+07
3.77E-02	-0.006574334	33	9.92E+00
5.02E+00	-1	4	2.81E+01
7.45E+01	-1	6	1.04E+02
2.53E+00	-0.167728992	15	7.65E+00
2.84E+00	-0.235525895	8	3.49E+00
5.26E+12	-0.903922408	52	2.38E+11
5.36E-01	0.052950003	9	9.05E-01
3.86E-02	0.595734786	6	8.75E-02
7.10E-03	1	6	2.40E-03
1.71E+00	-0.201607974	8	2.96E+00
1.80E+01	-0.253850806	13	1.03E+01
1.97E+00	-0.282050083	9	5.41E+00
9.31E+00	-0.292516815	13	1.36E+01
1.14E+00	0.062229685	28	2.47E+00
1.19E+00	-0.042502795	11	1.85E+00
2.23E-01	-0.00595257	6	9.57E-01
4.20E-01	-0.028569742	3	7.84E-01
8.66E-01	0	5	8.60E-01
4.08E-01	0	5	8.60E-01
4.20E-01	0	3	7.28E-01
4.07E-01	-0.008340325	2	6.81E-01

3.72E-01	0.040495912	22	2.26E+00
5.75E-01	0.249913597	3	3.78E-01
1.48E-01	1	5	1.63E-02
7.81E-04	0.634557981	14	1.47E-02
1.66E-01	0.316898021	4	2.99E-01
1.88E-02	0.502454118	12	5.34E-02
3.13E+00	-1	4	4.43E+01
1.10E+03	-0.527577055	38	2.30E+05
2.05E+01	-0.089415878	18	5.91E+00
6.84E-01	0.044879249	7	8.33E-01
3.97E-01	-0.006949973	9	1.25E+00
3.53E-01	0	11	1.42E+00
3.68E-01	0	9	1.20E+00
3.53E-01	0	11	1.42E+00
3.68E-01	0	9	1.20E+00
3.53E-01	0	11	1.42E+00
3.68E-01	0	9	1.20E+00
3.53E-01	0	11	1.42E+00
3.68E-01	0	9	1.20E+00
3.53E-01	0	11	1.42E+00
1.15E+03	-0.839863929	9	1.06E+02
7.62E-06	1	20	5.21E-05
4.91E-05	1	9	5.53E-04
2.88E-01	0.179700832	9	4.60E-01
3.00E-02	0.285723719	36	7.59E-02
8.40E-01	0.066206411	12	9.91E-01
3.93E-01	0.001645535	6	9.29E-01
3.81E-01	0.22243588	6	3.86E-01
4.15E-01	0.004982147	3	7.18E-01
3.15E-01	-0.068461325	4	9.76E-01
9.55E-01	-0.003497917	9	1.22E+00
3.83E-02	0.141450394	24	7.56E-01
9.57E-01	0.892336903	7	1.95E-02
5.32E-01	-0.000111358	4	7.91E-01
7.01E-01	-0.002428767	7	1.03E+00
9.59E-01	-0.139948526	3	1.05E+00
2.46E-01	0.048228865	7	8.21E-01
8.91E-02	-0.280630664	5	2.31E+00
3.62E-01	0.191050034	3	4.41E-01
6.54E-07	2	17	2.34E-06
4.29E-01	0.034586849	7	8.72E-01
1.22E-01	-0.101581214	10	2.35E+00
3.47E-01	-0.025943413	5	9.42E-01
4.69E-01	0.359518655	8	1.91E-01
1.07E+03	-2	6	8.15E+02
3.29E+03	-2	5	6.34E+02
4.52E+01	-0.85015514	7	4.39E+01

5.31E-01	-0.024539423	2	7.06E-01
4.09E-01	0	6	9.35E-01
4.59E-01	-0.021675684	6	1.02E+00
6.79E-01	-0.029280274	4	8.65E-01
3.08E+00	-0.078117513	17	4.72E+00
3.06E-01	0	12	1.54E+00
4.20E-01	0	3	7.28E-01
4.38E-01	0	1	6.16E-01
9.53E-02	0.242449407	13	2.97E-01
1.35E-01	0.293153542	11	2.28E-01
1.60E-02	0.201009209	14	3.96E-01
2.13E-01	0.193062591	11	4.25E-01
3.73E-01	0.091609908	26	1.51E+00
8.48E+01	-0.460102793	13	4.49E+01
4.23E-01	-0.002750072	3	7.33E-01
2.53E-03	0.934420303	5	3.20E-02
4.29E-01	0	2	6.69E-01
8.13E+00	-0.017821569	8	1.21E+00
5.00E+01	-0.558500271	12	6.48E+01
4.72E+02	-0.2235404	12	6.89E+00
5.05E-01	0.231407033	13	3.21E-01
4.31E+00	-0.229367257	8	3.38E+00
1.09E+00	-0.336783294	4	2.22E+00
1.78E+05	-2	9	2.42E+04
6.86E-01	-0.124668883	3	1.01E+00
1.36E+02	-0.965995743	5	2.59E+01
3.60E+00	-0.443025676	3	2.32E+00
8.86E+02	-1	9	5.00E+02
2.65E+03	-0.948972322	12	8.85E+02
3.63E+02	-0.353616558	10	1.01E+01
3.88E+00	-0.81831645	3	6.20E+00
4.25E+01	-0.216006888	32	2.46E+02
4.68E-01	0.035994207	3	6.62E-01
3.38E-01	0.085907105	13	9.08E-01
9.16E-01	0.023630702	26	3.65E+00
2.81E-01	0.004723464	20	2.87E+00
3.65E-01	0.011512212	12	1.43E+00
5.98E-01	0.029377926	3	6.74E-01
4.38E-01	0	1	6.16E-01
8.01E-01	-0.216654486	11	5.49E+00
1.21E-01	0	7	1.02E+00
1.32E+00	-0.129982553	9	2.40E+00
2.15E-01	0.269279712	18	2.02E-01
4.29E-01	0	2	6.69E-01
4.29E-01	0	2	6.69E-01
9.99E-01	0.076316138	10	8.39E-01
4.39E-01	0	2	6.69E-01

7.66E-01	-0.491609076	5	4.86E+00
1.41E+00	-0.013089449	3	7.53E-01
1.40E+02	-0.759364682	6	1.91E+01
7.23E+02	-0.845553309	17	4.56E+03
2.70E-01	0.651557089	24	1.56E-03
1.46E-01	0.32492634	18	1.20E-01
4.04E+01	-0.735034007	7	2.64E+01
2.48E+01	-0.122190428	26	2.44E+01
1.53E+00	-0.065829489	10	1.91E+00
3.95E-01	0.447932819	12	7.70E-02
3.63E-01	0	9	1.20E+00
2.19E-01	-0.297144132	11	9.06E+00
3.65E-01	-0.025770709	3	7.78E-01
6.38E-01	-0.122562712	7	1.75E+00
2.68E-05	2	12	1.33E-06
6.16E-14	2	27	1.23E-12
5.78E+16	-0.264928552	84	2.09E+07
2.31E-01	0.828425559	5	4.64E-02
2.01E+03	-0.894424268	9	1.42E+02
2.63E+04	-1	13	2.33E+04
4.01E+04	-0.678152438	12	1.44E+02
2.01E+02	-0.455764374	5	4.28E+00
1.21E+03	-0.811842904	9	9.13E+01
9.64E+01	-0.76432778	16	1.43E+03
9.97E-02	-0.05633373	48	1.14E+02
4.29E-01	-9.69E-05	2	6.69E-01
1.59E+00	0.030254488	10	1.10E+00
4.31E-01	0.005725648	2	6.61E-01
4.29E-01	0	2	6.69E-01
2.30E+00	-0.071053933	9	1.75E+00
7.03E-01	-0.408434605	6	4.74E+00
1.53E+01	-0.114998227	13	3.81E+00
8.77E+00	-0.583761268	7	1.35E+01
2.13E+00	0.013744932	7	9.56E-01
4.78E-01	-0.010024841	2	6.84E-01
2.37E+02	-1	12	1.66E+03
4.45E-02	0.563178698	14	2.53E-02
2.57E-01	0.558235242	2	2.00E-01
3.15E-01	0.062583389	10	9.09E-01
2.22E-03	2	8	2.21E-04
1.44E-03	1	14	3.40E-04
4.60E-01	0.045623009	6	7.80E-01
1.35E-01	0.836365235	4	6.06E-02
8.76E-02	0.946080378	9	7.72E-03
2.88E-03	1	5	5.55E-03
1.18E+00	0.038585162	14	1.36E+00
1.02E-02	0.802245823	11	9.50E-03

3.39E-01	0.329344763	2	3.28E-01
3.10E-01	-0.085416501	3	9.10E-01
3.37E-01	-0.050400416	16	3.31E+00
1.68E-01	0.459498209	8	1.17E-01
8.98E-01	0.168559391	12	4.99E-01
1.49E-06	0.579849733	40	2.12E-04
3.20E-04	1	11	7.38E-04
4.02E-01	0	5	8.60E-01
2.17E+00	-0.192269519	4	1.43E+00
3.87E-12	3	17	2.19E-11
5.25E-01	-0.056509147	5	1.05E+00
3.44E-04	1	21	4.20E-05
2.08E-01	0.362545552	8	1.88E-01
1.23E-01	0.728944438	2	1.38E-01
5.13E-11	1	50	4.42E-11
1.29E+01	0.071328635	25	1.86E+00
1.09E-12	0.964573992	88	5.33E-15
3.27E-22	1	97	2.33E-22
1.01E-02	0.298058497	11	2.21E-01
2.03E-01	0.243958319	43	1.31E-01
2.17E-01	0.164845495	6	4.85E-01
4.19E-01	0	8	1.10E+00
4.11E-01	0.002826646	4	7.84E-01
2.29E+00	-0.183834091	11	4.47E+00
5.79E-01	-0.193630338	3	1.21E+00
3.85E-01	-0.020631505	7	1.11E+00
4.20E-01	0.148260111	3	4.93E-01
4.73E+00	-0.496433438	12	4.28E+01
4.68E-01	-0.066399355	1	6.90E-01
2.20E+00	-0.373033742	3	1.93E+00
7.88E-02	0.162164743	36	6.64E-01
4.85E-01	-0.029046315	31	1.18E+01
3.25E-01	0.075800886	28	2.04E+00
1.27E+00	-0.241230372	5	2.01E+00
1.10E+00	0.026226085	21	2.47E+00
7.26E-02	0.52232628	10	6.35E-02
6.50E+00	0.612568684	3	1.46E-01
1.62E-07	2	13	8.91E-06
3.38E+05	0.18573392	38	4.39E-01
1.40E+00	0.119697325	22	9.29E-01
2.18E-01	0.330859898	10	1.92E-01
1.83E-01	0.176519271	14	4.77E-01
9.12E-01	-0.085190465	5	1.16E+00
4.30E-01	0.15633855	2	4.77E-01
3.46E-01	0.41459701	5	2.00E-01
1.45E+00	0.246994365	9	3.22E-01
8.43E-01	-0.049200899	4	9.20E-01

2.30E+00	-0.3888731	4	2.61E+00
2.62E-01	0.085586511	21	1.30E+00
5.41E-01	-0.000158855	4	7.91E-01
5.19E-01	0.007809769	4	7.72E-01
1.44E+00	-0.211442253	11	5.31E+00
4.59E-01	-0.022970303	4	8.49E-01
5.40E-01	-0.000968607	6	9.38E-01
4.70E-01	0.102186612	22	1.13E+00
3.76E-01	0	7	1.02E+00
3.74E+00	-0.748172264	1	2.22E+00
2.46E-03	0.389906498	24	3.72E-02
4.50E+03	-1	16	5.92E+04
1.66E+01	-0.942329967	5	2.38E+01
4.70E+05	-0.55211989	27	9.24E+03
1.86E-01	0.037720248	23	2.49E+00
3.31E-01	0.083795654	18	1.16E+00
2.37E+00	0.03578006	34	5.34E+00
4.20E-01	0	3	7.28E-01
8.39E-05	1	15	2.74E-04
3.55E-02	0.996747996	5	2.57E-02
4.38E-01	0	1	6.16E-01
4.23E+01	0.263258063	12	2.65E-01
2.90E+00	-0.035370161	7	1.19E+00
4.36E-01	0.054463961	22	1.93E+00
3.67E-01	-0.015958543	43	2.86E+01
5.18E-01	0	6	9.35E-01
5.70E-01	0.303672874	2	3.47E-01
2.68E-02	1	7	1.58E-03
6.46E-01	-0.006656802	12	1.61E+00
5.08E-01	0	7	1.02E+00
1.38E-01	0.253859459	47	9.40E-02
6.36E+00	-0.155924562	13	5.11E+00
1.79E+05	-0.265798326	60	1.63E+05
4.17E+01	-0.296621895	18	4.15E+01
4.00E+02	-1	8	3.00E+02
8.35E-01	-0.107314483	4	1.10E+00
1.41E+00	0.333895072	4	2.84E-01
3.45E-01	0	12	1.54E+00
4.20E-01	0	3	7.28E-01
1.05E+08	-0.398450249	35	9.61E+03
5.06E-01	-0.367440399	6	4.03E+00
3.17E-02	0.694417316	5	7.44E-02
2.70E-01	0.049145158	54	1.46E+01
1.14E+00	-0.167701544	5	1.55E+00
3.46E-01	0	4	7.91E-01
4.33E-01	0.167026097	4	4.74E-01
4.55E-01	0	1	6.16E-01

9.72E-01	0	1	6.16E-01
4.56E-01	0	1	6.16E-01
1.36E+00	-0.13144172	10	2.79E+00
3.53E-01	0	11	1.42E+00
4.38E-01	0	1	6.16E-01
2.63E+00	0.141827352	5	5.22E-01
1.55E+00	-0.381356059	3	1.97E+00
5.88E-01	-0.110998338	10	2.48E+00
4.21E-01	-0.092272603	2	8.17E-01
5.35E+00	-0.576516419	7	1.31E+01
3.74E+00	-0.231754866	4	1.61E+00
5.28E-01	-0.110096594	2	8.49E-01
5.86E-01	-0.038111606	10	1.63E+00
4.21E-01	-0.002427621	3	7.32E-01
1.64E-02	1	5	2.26E-02
2.36E-01	0.044520002	2	6.08E-01
6.13E-02	0.330010986	13	1.59E-01
5.53E-10	1	39	3.71E-11
1.17E+00	0.163011153	14	5.28E-01
1.02E+00	0.184840035	4	4.48E-01
6.84E-01	-0.201863665	7	2.48E+00
6.63E-02	0.259313451	18	2.22E-01
1.96E-01	0.148011312	27	7.34E-01
1.45E-01	0.421266565	5	1.95E-01
4.69E-01	0.007417844	3	7.14E-01
8.87E-01	-0.293993369	4	1.95E+00
3.97E-01	-0.002805411	5	8.68E-01
4.31E-01	0.019450325	2	6.42E-01
4.10E-01	0.084141072	7	7.00E-01
1.31E+00	-0.13234568	9	2.43E+00
6.96E-01	0.035449546	8	9.29E-01
1.80E-02	0.98099678	5	2.71E-02
4.27E-01	-0.006632314	4	8.07E-01
5.68E-01	-0.006060227	4	8.06E-01
1.86E-01	0.27789083	10	2.61E-01
7.51E+02	0.011609838	20	2.67E+00
4.89E-01	0.076013778	1	5.40E-01
3.94E-01	0.269493702	13	2.44E-01
4.64E-01	0.101029664	3	5.58E-01
4.55E-01	0	3	7.28E-01
6.84E-01	-0.018710948	3	7.64E-01
1.60E+00	0.653260064	4	1.06E-01
4.89E+00	0.215665212	10	3.75E-01
1.45E+00	-0.078062913	8	1.62E+00
1.31E+01	0.022031423	14	1.54E+00
7.30E+02	-0.858117421	12	4.82E+02
2.59E+01	-0.220481185	13	8.11E+00

6.49E-01	-0.325165868	2	1.35E+00
5.36E+00	-0.50426776	5	5.08E+00
8.72E+02	-2	5	2.22E+02
5.00E+08	-2	22	1.14E+09
7.84E+03	-2	6	1.22E+03
5.15E+00	-0.525909913	4	3.98E+00
1.72E+00	-0.401830381	8	7.86E+00
4.83E+00	-0.987318038	4	1.64E+01
5.07E-01	0.017422121	5	8.09E-01
3.99E-01	-0.00781507	4	8.10E-01
3.68E-01	0.188140847	6	4.42E-01
7.88E+00	0.768327368	28	1.31E-04
1.27E+00	0.033781259	34	5.52E+00
1.76E-01	0.294360753	9	2.50E-01
4.36E-02	0.735900669	5	6.43E-02
3.64E-02	0.719582577	5	6.81E-02
3.49E+01	0.080158909	5	6.48E-01
5.25E+00	-0.495726719	12	4.26E+01
9.80E+01	-2	7	1.12E+03
6.88E+03	-0.579693998	15	2.11E+02
3.39E-01	0.497471642	9	8.45E-02
2.53E+00	-0.547541078	3	3.05E+00
1.37E+01	-0.414673319	17	9.61E+01
3.64E-01	0.018561369	6	8.68E-01
5.94E+02	-0.196416441	36	3.60E+02
1.82E+00	-0.134333327	8	2.13E+00
2.26E-15	2	30	3.74E-13
3.32E-01	0.181740554	1	4.51E-01
2.87E-01	0.203583871	8	4.09E-01
1.98E+02	-0.319678436	12	1.31E+01
6.21E+00	0.046933832	7	8.25E-01
3.83E-01	0.016382003	3	6.97E-01
5.52E-07	2	15	1.59E-07
1.56E-24	1	90	1.84E-19
5.96E-01	-0.020846461	18	3.10E+00
1.90E+03	0.190268449	9	4.35E-01
5.00E-01	-0.000267173	2	6.70E-01
4.38E-01	-0.008584852	3	7.44E-01
5.62E+01	-0.47643769	14	6.81E+01
2.21E+03	-1	8	1.95E+02
1.06E+02	-0.068738708	26	1.22E+01
2.54E-17	1	70	7.22E-14
4.20E-01	0	3	7.28E-01
1.40E+00	-0.245056125	11	6.55E+00
2.60E-01	0.007181415	9	1.16E+00
1.42E+00	-0.265604805	8	4.04E+00
3.52E+00	-0.195183741	18	1.60E+01

5.07E-01	-0.111599662	1	7.45E-01
1.58E+02	-0.85687094	9	1.16E+02
2.43E-01	0.154641037	15	5.71E-01
1.51E+01	-0.1045724	72	7.99E+03
7.41E+00	-0.502285386	12	4.45E+01
1.17E+01	0.328941133	17	1.23E-01
2.55E-01	-0.170456414	6	1.84E+00
2.39E+02	-1	7	3.12E+02
7.87E-01	0.03167105	12	1.25E+00
5.25E+06	-0.652287709	30	1.11E+05
3.38E-01	0.145343591	6	5.24E-01
1.68E-03	0.753626438	12	9.95E-03
2.59E+03	-1	8	9.89E+02
1.47E+01	-2	3	8.29E+01
4.11E-01	-0.416903319	4	2.85E+00
4.11E+00	-0.588072709	4	4.81E+00
2.60E+00	-0.690515716	1	2.01E+00
2.88E+00	-0.15770259	4	1.28E+00
2.69E+00	-0.886012537	11	3.57E+02
4.46E-01	-0.000433787	3	7.28E-01
3.48E-02	0.695096901	8	3.71E-02
4.85E-12	2	13	2.26E-06
4.34E-01	0.038770028	1	5.76E-01
1.75E-11	2	29	1.65E-09
4.57E-01	0.041374746	3	6.53E-01
2.55E+00	-0.328883696	6	3.46E+00
3.06E-01	0.408474128	5	2.04E-01
3.53E-01	0.015489234	11	1.29E+00
1.78E-01	-0.114239833	8	1.93E+00
2.99E-01	0.103720509	3	5.55E-01
2.16E-02	-0.61471178	5	7.50E+00
2.43E+01	-0.789559816	7	3.36E+01
1.45E+00	-0.285606207	2	1.24E+00
1.62E+01	-1	4	2.36E+01
2.77E+01	-0.96320107	10	3.44E+02
3.73E-01	0.058323785	9	8.80E-01
2.52E-01	-0.328239849	8	5.48E+00
2.16E+00	-0.383027339	6	4.29E+00
4.64E-01	0	2	6.69E-01
5.29E-01	0	2	6.69E-01
7.19E-01	-0.512126705	1	1.48E+00
2.60E+00	-0.354979455	4	2.35E+00
3.70E+02	-0.472850434	8	1.11E+01
1.52E+02	-0.489997346	8	1.21E+01
1.65E+00	-0.569906142	3	3.23E+00
3.12E+05	-1	14	1.50E+05
8.86E+00	-0.64613582	5	8.38E+00

2.65E+01	-0.042762946	6	1.11E+00
1.55E+00	0.657003015	8	4.47E-02
1.10E+00	0.025864624	8	9.74E-01
7.38E+00	-0.676430939	5	9.32E+00
1.84E+01	-0.142806479	6	1.65E+00
1.10E+00	0	7	1.02E+00
8.41E-01	-0.265642109	2	1.19E+00
4.33E-01	-0.173788051	3	1.15E+00
4.30E+00	-0.289625246	4	1.92E+00
5.33E-01	0	4	7.91E-01
9.16E-01	-0.13588998	4	1.20E+00
2.88E+00	-0.709802598	4	6.99E+00
1.12E+00	-0.056300387	18	4.33E+00
1.16E-01	0.406081244	5	2.06E-01
3.56E-01	0.646031254	7	5.81E-02
1.84E-01	0.16476557	5	4.81E-01
2.01E-07	1	22	8.25E-07
7.74E-02	0.591353328	8	6.16E-02
4.95E-01	0.077521133	12	9.18E-01
5.07E+00	-0.060545277	12	2.31E+00
1.21E+00	-0.122236195	7	1.75E+00
1.90E-02	1	22	3.54E-05
1.00E+02	-0.710704677	8	3.55E+01
1.23E+00	-0.179373963	12	5.13E+00
9.94E-01	-0.786375756	4	8.85E+00
3.14E-01	-0.118998279	6	1.50E+00
1.48E+00	-0.41602111	5	3.72E+00
2.63E+01	0.34378808	35	2.94E-02
4.96E-01	0.07513663	8	7.65E-01
6.45E-01	0	2	6.69E-01
7.85E-01	0	2	6.69E-01
2.43E+01	-0.192960284	13	6.66E+00
3.14E+02	-0.190938721	10	3.94E+00
1.16E-01	0.800749476	16	2.38E-03
8.79E-21	3	31	5.12E-18
6.95E-16	3	21	2.65E-14
9.45E-02	0.312744722	3	3.21E-01
7.61E-03	0.547540558	12	3.95E-02
3.83E-01	0.099383097	1	5.19E-01
4.43E+00	0.101593158	6	6.24E-01
6.96E-09	0.903941572	33	3.89E-06
3.76E-01	0.196613834	10	4.18E-01
1.57E-01	0.01209931	15	1.80E+00
3.95E-01	0.044408505	6	7.83E-01
5.78E-01	-0.60457947	4	5.06E+00
2.03E-01	-0.05330283	6	1.16E+00
4.29E-01	0	1	6.16E-01

2.10E-01	-0.063330317	10	1.88E+00
3.09E-01	-0.486573921	10	2.18E+01
1.58E+00	-0.253849824	9	4.65E+00
5.00E+00	-0.882901951	10	2.16E+02
4.78E-01	0.003105084	26	4.77E+00
2.79E+02	-0.222478249	18	2.07E+01
1.74E+01	0.311933604	13	1.81E-01
4.72E-04	1	17	8.22E-05
3.33E-01	-0.147354033	13	4.81E+00
2.14E+03	-0.920954717	14	2.00E+03
3.56E+00	-0.144862074	9	2.60E+00
9.35E-01	-0.094760088	8	1.75E+00
3.80E+01	0.082049856	23	1.48E+00
1.17E+00	-0.556473559	6	8.54E+00
6.87E+05	-0.858976358	25	2.25E+05
1.57E-01	0.401423215	4	2.31E-01
3.71E+00	0.374684903	4	2.50E-01
3.23E+02	-1	10	6.11E+03
8.32E-01	-0.824428259	2	3.99E+00
2.18E+00	0.129632498	23	8.51E-01
2.39E+01	-0.586830472	15	2.23E+02
2.05E+02	-0.884696718	13	9.34E+02
2.45E-01	0.265231938	4	3.50E-01
2.33E-06	2	14	9.50E-06
2.03E+03	-0.87211816	16	3.58E+03
3.74E+03	0.3919771	13	1.02E-01
9.74E-04	1	15	6.18E-05
1.38E+03	-1	11	1.33E+03
2.25E+03	-0.631289935	12	1.06E+02
8.29E-01	-0.01339237	6	9.86E-01
1.74E+00	-0.09455858	5	1.20E+00
2.38E+06	-1	15	9.76E+03
6.05E-01	-0.665354179	1	1.92E+00
3.06E+00	-1	1	7.18E+00
1.04E+02	-0.140352926	3	1.05E+00
4.98E-01	-0.095790692	6	1.37E+00
2.62E-01	0.88022676	2	9.95E-02
1.41E+00	-0.257395919	1	9.57E-01
8.38E-01	-0.19203243	3	1.20E+00
1.38E+00	-0.501624188	3	2.71E+00
4.42E-01	-0.014231153	2	6.90E-01
4.38E-01	0	1	6.16E-01
4.25E-01	0	3	7.28E-01
4.43E-01	0	1	6.16E-01
7.72E-01	-0.165787234	3	1.12E+00
1.46E+00	-0.087852842	3	9.16E-01
2.47E+01	-0.666125886	4	6.12E+00

4.99E-01	-0.032776146	1	6.51E-01
9.81E-01	-0.263315158	5	2.17E+00
1.31E+03	-0.548264415	12	6.05E+01
5.40E+00	-0.097312644	9	2.02E+00
1.39E+01	-0.569823446	18	5.43E+02
2.67E+01	-0.359232227	9	8.16E+00
5.14E-01	-0.13159586	3	1.03E+00
9.02E-01	-0.035742392	2	7.23E-01
4.26E+00	-0.520574611	10	2.66E+01
2.88E+02	-0.533503254	8	1.49E+01
9.93E-01	-0.403683696	7	6.07E+00
1.99E+01	-0.625585537	5	7.79E+00
8.09E-01	-0.081817588	5	1.15E+00
4.32E+02	-0.212652307	12	6.40E+00
9.82E+00	-0.735731866	7	2.64E+01
7.85E+00	-0.36050761	9	8.22E+00
1.41E+00	-0.456648063	5	4.30E+00
5.90E-01	-0.050947121	4	9.25E-01
8.68E+15	-0.822209399	103	3.91E+20
1.65E+00	-1	4	6.89E+01
4.88E-01	-0.061014792	4	9.54E-01
7.29E-01	-0.253648663	2	1.16E+00
5.73E-01	-0.18841828	1	8.50E-01
6.83E-03	0.792152708	5	5.27E-02
2.73E-19	1	77	1.62E-18
2.41E+04	-0.766820897	13	4.02E+02
6.16E-02	0.19884576	11	4.10E-01
1.79E+00	-0.524767612	16	1.87E+02
4.53E-01	0.225732396	3	4.03E-01
7.55E+00	-0.691725893	4	6.62E+00
3.56E+00	-0.488075521	7	8.83E+00
1.86E+00	-1	2	6.23E+00
1.73E+07	-0.974659551	33	6.43E+07
1.12E+00	-0.334986084	2	1.38E+00
3.24E+00	-0.475455795	4	3.41E+00
7.72E-01	-0.088599813	2	8.11E-01
4.03E+00	-0.750607227	4	7.93E+00
6.51E+01	-2	4	9.01E+02
9.38E-01	0.077862124	3	5.93E-01
1.67E-01	0.12792509	17	7.45E-01
2.44E-01	0.6465745	5	8.81E-02
2.71E-01	-0.150108107	3	1.08E+00
2.17E-01	-0.001885129	5	8.66E-01
1.89E+00	-0.929425621	2	5.01E+00
3.94E+00	-0.350387728	3	1.82E+00
6.89E+01	-0.74317138	5	1.18E+01
3.56E+00	-0.583572956	12	7.67E+01

5.51E+00	-0.413893813	5	3.70E+00
4.22E+01	-0.363615103	8	6.52E+00
4.18E+00	-0.018070814	7	1.10E+00
2.11E+00	-0.134430718	1	7.75E-01
2.12E+00	-0.23299922	3	1.34E+00
9.87E+00	-0.404142259	5	3.57E+00
9.68E+01	-0.991105938	5	2.83E+01
4.04E+00	-0.385585132	3	2.00E+00
8.16E+00	-0.034361847	6	1.07E+00
4.00E+00	-0.601110175	7	1.46E+01
2.37E+00	-0.002816871	6	9.45E-01
1.04E+00	-0.009894762	2	6.84E-01
4.42E+01	-0.400749205	9	1.02E+01
1.96E+10	-1	22	1.20E+07
8.52E+03	-1	16	3.39E+05
1.43E+00	-0.613844099	4	5.21E+00
4.10E-01	-0.022611489	3	7.72E-01
1.19E-01	0.069853928	5	6.72E-01
2.08E-01	0.653667199	6	6.95E-02
3.08E-01	0.349406358	2	3.14E-01
4.28E+00	1	3	3.48E-02
6.79E+00	-0.635118805	3	3.84E+00
4.70E-01	-0.036381635	2	7.24E-01
5.53E+00	-0.193824892	14	7.95E+00
6.62E-06	0.719160505	43	6.90E-06
6.66E+00	-0.675914635	6	1.37E+01
1.35E+01	-0.108708871	10	2.45E+00
4.49E+00	-0.718460161	4	7.18E+00
9.17E+00	-0.65972092	8	2.77E+01
5.05E+01	-1	7	1.53E+02
7.86E-03	0.326151276	7	2.40E-01
9.06E-01	-0.164981541	5	1.54E+00
2.53E-02	0.541164922	44	2.35E-04
1.07E+01	-0.505457004	6	6.98E+00
4.46E-01	-0.010797418	1	6.27E-01
1.63E+00	-0.403125131	3	2.09E+00
4.47E-01	0	1	6.16E-01
5.39E-01	-0.442878873	3	2.32E+00
3.51E+01	-1	3	1.08E+01
6.15E-01	0.038372032	7	8.57E-01
1.07E+03	-0.148458333	21	1.62E+01
6.40E-01	-0.035953273	5	9.76E-01
2.19E+00	-0.143544406	2	9.13E-01
3.52E+00	-0.230675721	3	1.33E+00
1.89E+00	-0.257395919	1	9.57E-01
4.97E+01	-0.678996885	4	6.36E+00
1.55E+02	-0.379370424	16	5.43E+01

5.32E-01	-0.062300233	2	7.66E-01
2.80E+00	-0.610791509	10	4.48E+01
6.94E+02	-0.094045268	35	5.26E+01
2.07E+00	-0.049333038	18	4.05E+00
8.82E+00	-0.07144761	18	4.99E+00
1.45E+02	-1	14	1.75E+04
6.66E+04	-0.254986497	22	6.22E+01
1.38E+00	-0.106921317	10	2.42E+00
5.46E-01	-0.019741565	10	1.46E+00
5.83E-01	-0.065766655	12	2.40E+00
1.21E-01	-0.227698624	7	2.79E+00
1.22E+00	-0.07851769	3	8.94E-01
1.67E-02	0.395604013	120	3.59E-06
6.45E-02	0.92368345	11	4.45E-03
4.67E-06	2	8	3.49E-04
3.37E+05	-0.794020635	18	4.48E+03
1.63E+06	-0.121776731	60	2.71E+03
5.45E-01	-0.134430718	1	7.75E-01
3.65E+01	-0.728516494	2	3.24E+00
3.00E+01	-0.257959299	13	1.06E+01
8.61E+00	-0.555770256	9	2.33E+01
4.45E+04	-0.917067581	12	7.15E+02
1.14E+03	-0.739587367	6	1.77E+01
1.28E+02	-0.418663983	8	8.53E+00
6.25E+03	-0.693649612	6	1.47E+01
7.03E+01	-0.3490387	4	2.31E+00
8.18E-01	0.401637072	17	6.42E-02
6.63E-02	1	5	1.94E-02
5.82E-01	0.658421587	4	1.05E-01
1.60E+02	-0.365218651	25	4.52E+02
8.46E-01	-0.00133579	2	6.71E-01
6.69E-01	0	1	6.16E-01
1.44E+01	-0.33365724	7	4.45E+00
1.98E+01	-0.101119633	8	1.81E+00
5.72E+03	-0.426714467	23	5.63E+02
3.15E+00	-0.59861935	3	3.49E+00
4.73E-01	-0.004128907	4	8.01E-01
5.95E-01	0.87991387	4	5.30E-02
4.68E-12	2	35	2.67E-12
4.78E-02	0.824559959	6	3.52E-02
5.37E-01	0.495283037	9	8.55E-02
1.02E+00	0.740789431	2	1.35E-01
1.53E+01	-0.3788345	9	9.06E+00
4.69E+00	-0.462344521	7	7.88E+00
6.05E-01	0.147324851	11	5.66E-01
4.06E+00	-0.319542385	5	2.65E+00
1.02E+00	-0.017584573	4	8.35E-01

8.54E-07	2	17	1.94E-06
2.56E+00	-0.173309951	10	3.56E+00
3.14E+00	0.230230053	11	3.37E-01
9.19E+01	-0.881294428	8	8.16E+01
2.40E+02	-0.876192787	6	3.05E+01
1.38E-15	1	52	4.58E-12
6.70E-01	-0.028718247	4	8.64E-01
8.39E+08	-1	19	2.39E+06
2.03E+07	-1	19	1.67E+05
1.95E+01	-0.777960324	9	7.62E+01
2.80E+02	-2	6	7.34E+02
4.03E+05	-0.340934891	60	1.38E+06
1.80E+00	0.003185083	5	8.50E-01
8.34E+03	-2	5	4.93E+03
1.46E+06	-0.32866963	15	2.80E+01
5.21E+00	0.588851307	4	1.30E-01
2.88E-03	1	5	1.35E-02
5.03E-03	1	6	1.17E-02
1.77E-03	1	8	2.03E-03
3.16E-01	0.869802227	7	2.16E-02
1.72E-01	0.553466465	2	2.02E-01
2.98E-01	0.31497757	1	3.59E-01
7.19E-06	0.919623217	21	1.64E-04
1.93E-05	2	9	7.04E-05
1.23E-06	2	8	7.73E-06
1.59E+09	-0.845430002	21	2.94E+04
1.59E+03	-0.78925419	11	1.95E+02
1.93E+00	-0.295432088	10	7.22E+00
3.27E-06	0.461091223	40	2.11E-03
2.54E-02	0.237517013	18	2.72E-01
3.86E+00	0.292302619	11	2.29E-01
1.58E-01	0.651692621	12	1.97E-02
5.01E-02	0.758356896	5	5.94E-02
6.01E+03	-1	7	2.58E+02
2.96E-01	0.224055859	16	3.21E-01
1.01E+00	0.554423656	10	5.28E-02
9.85E+00	-0.211919303	6	2.17E+00
1.88E-01	2	6	8.58E-04
9.43E-03	1	5	1.18E-02
2.27E-01	0.036391966	6	8.09E-01
4.71E+01	-2	4	8.08E+01
2.55E+00	0.081113949	8	7.43E-01
1.85E+00	0.446674914	3	2.26E-01
1.65E-01	0.095175065	3	5.67E-01
5.33E+02	-2	8	2.46E+03
4.56E+04	-0.668240459	11	9.18E+01
1.56E+01	-0.299060075	2	1.28E+00

3.75E+00	-0.299306499	10	7.38E+00
1.30E+01	-0.129106218	8	2.07E+00
6.77E+01	-0.169187553	7	2.15E+00
4.29E+00	-0.353623554	13	2.10E+01
2.05E+02	-0.852021784	12	4.62E+02
1.31E+03	-0.419049565	12	2.55E+01
5.30E-03	0.27183233	36	9.68E-02
2.20E+00	0.317440685	9	2.21E-01
4.80E-02	0.795136833	14	4.33E-03
7.37E+00	0.484071069	3	2.05E-01
6.46E+00	0.680822526	8	3.98E-02
7.71E-01	0.3764342	6	2.09E-01
3.83E-03	1	6	1.59E-02
3.49E+02	-1	8	3.85E+02
2.80E+00	-0.27023517	6	2.74E+00
5.12E+00	-0.517821203	8	1.38E+01
6.30E-01	-0.057923831	3	8.47E-01
2.72E+02	-0.278343506	38	2.31E+03
2.08E+00	-0.21141545	6	2.17E+00
3.54E+00	-0.291122977	5	2.40E+00
6.90E-01	-0.002852947	3	7.33E-01
4.37E-01	-0.081851193	6	1.29E+00
1.77E+00	-0.356847905	10	1.03E+01
3.77E+01	-0.579833058	8	1.87E+01
3.62E+00	-0.210177227	5	1.80E+00
4.46E+00	-0.200982122	8	2.95E+00
5.67E+00	-0.441009135	7	7.17E+00
4.58E-01	-0.027906944	1	6.46E-01
6.50E-01	-0.257395919	3	1.43E+00
7.21E+01	-0.455511997	10	1.82E+01
6.26E-01	-0.190335461	4	1.42E+00
2.93E+00	-0.343254149	8	5.90E+00
1.24E+01	-0.704458823	7	2.30E+01
3.37E+00	-0.000688858	3	7.29E-01
6.62E-01	-0.008983183	3	7.45E-01
5.76E-01	-0.10636485	2	8.43E-01
8.01E-01	0.312919246	4	3.03E-01
1.65E+02	-0.682249659	10	6.77E+01
7.17E-01	-0.568442312	5	6.37E+00
3.68E+00	-0.0993749	7	1.58E+00
2.68E+00	-0.385567576	5	3.35E+00
1.38E+02	-0.34298917	11	1.21E+01
6.60E-01	-0.086552893	11	2.44E+00
1.39E+01	-0.521245868	7	1.02E+01
1.10E+00	-0.146781553	6	1.68E+00
5.56E-01	-0.085012795	8	1.67E+00
2.20E+02	-0.354247411	7	4.88E+00

4.96E-01	-0.040323086	2	7.30E-01
8.91E-01	-0.001581473	3	7.31E-01
4.25E-01	0	3	7.28E-01
5.12E-01	-0.004085695	2	6.75E-01
2.98E+02	-1	6	7.41E+01
1.01E+00	-0.315829428	3	1.66E+00
2.80E+00	-0.235920941	5	1.97E+00
9.60E+00	-0.721593046	8	3.74E+01
2.51E-01	0	2	6.69E-01
2.52E+02	-1	8	5.66E+02
4.28E-01	-0.01147304	3	7.50E-01
7.49E-01	0.010986173	3	7.07E-01
4.12E-01	-0.006715041	2	6.79E-01
2.47E-01	-0.154495094	3	1.09E+00
3.12E+00	-0.185518537	7	2.31E+00
2.58E-01	-0.317144757	6	3.30E+00
2.25E+00	-0.031335091	10	1.57E+00
8.81E+00	-0.50605607	9	1.79E+01
1.98E+00	-0.016971986	6	1.00E+00
4.77E+02	-0.79790861	10	1.32E+02
1.23E-01	0.343720163	7	2.22E-01
7.61E+00	-0.302170244	9	6.02E+00
1.30E+01	0.592455491	4	1.28E-01
2.74E+03	-0.791910056	20	1.06E+04
3.49E+01	-0.581789988	4	4.72E+00
6.78E+00	-1	4	6.73E+01
7.10E+01	-0.580547726	8	1.88E+01
3.23E-01	0	15	1.98E+00
3.93E-01	0	6	9.35E-01
1.65E+01	-0.359575081	10	1.05E+01
1.40E-06	2	11	4.04E-06
1.32E+00	0.576367219	14	2.28E-02
5.63E-01	0.529856762	3	1.82E-01
2.86E-07	2	9	3.87E-06
7.83E-05	1	13	1.11E-03
9.28E-01	0.350580138	5	2.50E-01
2.19E+00	-0.044158097	19	4.28E+00
8.04E-07	0.572242027	57	1.24E-05
4.10E-02	0.578614861	7	7.83E-02
2.75E+00	-0.370730863	2	1.49E+00
2.18E-01	0.78362912	2	1.23E-01
6.48E-01	-0.195885945	3	1.21E+00
4.75E+02	-1	4	1.88E+01
7.05E+01	-1	5	4.33E+01
6.57E+01	-0.940118111	6	3.93E+01
7.53E+02	-1	8	9.31E+02
2.04E+19	-1	46	2.86E+15

7.91E+01	-0.852498368	5	1.73E+01
1.30E+02	-0.558337098	14	1.27E+02
2.10E+00	-0.963144234	3	9.06E+00
1.45E+04	-0.306448209	27	3.37E+02
1.25E+01	-0.161763492	6	1.78E+00
2.48E+02	-0.349005366	9	7.73E+00
4.42E-01	0	2	6.69E-01
3.99E-01	0	6	9.35E-01
3.12E+01	-0.590444133	13	1.14E+02
8.20E+00	-0.905140394	4	1.27E+01
6.60E-01	-0.061610654	2	7.65E-01
1.46E+00	-0.34982866	13	2.04E+01
1.28E+00	-0.534720458	5	5.66E+00
5.93E-01	-0.038110766	7	1.20E+00
4.38E-01	0	1	6.16E-01
4.38E-01	0	1	6.16E-01
4.11E-01	0	4	7.91E-01
1.95E-01	0	14	1.82E+00
3.68E-01	0	9	1.20E+00
4.11E-01	0	4	7.91E-01
2.24E+00	-0.406372175	10	1.37E+01
3.23E-01	0	15	1.98E+00
2.09E+02	-0.881096399	9	1.32E+02
6.21E+02	-2	4	4.34E+02
5.43E-01	-0.058086535	2	7.59E-01
1.08E+03	-0.259275018	33	5.95E+02
2.51E+00	-0.198896366	4	1.46E+00
9.72E-01	-0.217427686	7	2.66E+00
1.27E+02	-0.805332348	9	8.82E+01
7.18E+00	-0.51392365	9	1.86E+01
2.06E+00	-0.585767941	3	3.37E+00
2.07E+00	-0.430229416	5	3.92E+00
9.60E+00	-0.356741834	4	2.37E+00
4.55E-01	-0.014020948	1	6.31E-01
1.68E+00	-0.350439322	9	7.79E+00
9.19E+00	-0.868410541	8	7.66E+01
6.16E-01	-0.441846996	2	1.74E+00
4.44E-01	0	3	7.28E-01
7.50E+00	-1	4	2.01E+01
1.71E+03	-0.795019607	12	3.16E+02
1.20E+00	0.567534903	4	1.38E-01
7.16E-01	-0.10249846	11	2.69E+00
4.19E-01	-0.012104926	5	8.97E-01
3.49E-03	0.855384562	8	1.70E-02
1.35E+01	-0.564394585	11	4.80E+01
4.48E+00	-0.454599732	17	1.37E+02
4.57E+00	-0.483652075	5	4.73E+00

4.73E+02	-0.782109796	10	1.21E+02
1.69E+03	-0.25976177	31	4.01E+02
2.47E+01	0.030261788	8	9.53E-01
4.40E-02	0.055669345	8	8.42E-01
2.97E-05	1	13	5.24E-05
9.03E-05	2	17	2.77E-07
1.98E+00	0.282495083	8	2.78E-01
1.26E+00	0	6	9.35E-01
4.90E-01	-0.025018578	2	7.06E-01
1.17E+00	-0.883627975	3	7.35E+00
3.42E+01	-1	4	4.41E+01
1.57E+01	-0.539222924	9	2.13E+01
4.65E-01	-0.192056348	6	2.01E+00
2.09E+00	0.123994261	6	5.71E-01
6.67E+00	-0.411690115	13	3.18E+01
1.02E+00	0.454039129	3	2.22E-01
4.50E-01	0.023850346	1	5.91E-01
4.38E+00	-0.540053638	6	8.00E+00
4.27E+00	-0.450547475	6	5.61E+00
4.73E-01	-0.054176417	7	1.29E+00
4.02E+00	-0.559226193	5	6.17E+00
2.12E+01	-0.292187781	8	4.60E+00
8.62E+00	-0.803967841	9	8.75E+01
3.17E-01	0.376011791	36	1.55E-02
1.45E+00	0.546533437	3	1.74E-01
5.99E+00	-0.62831662	3	3.77E+00
1.74E+03	-1	12	1.27E+03
2.93E+04	-0.76196562	19	5.08E+03
2.55E+04	-1	18	1.66E+05
4.59E+00	-0.19034496	5	1.68E+00
2.40E+00	-0.039635793	5	9.89E-01
1.66E+00	-0.018019863	3	7.63E-01
1.57E+02	-0.338612524	14	2.39E+01
1.06E+00	0.012779943	8	1.04E+00
4.41E-01	-0.000797556	2	6.70E-01
8.80E-01	-0.133966044	3	1.03E+00
2.96E-07	0.571850218	61	6.22E-06
2.64E-01	0.078985197	15	1.05E+00
1.99E+01	0.27987122	18	1.83E-01
9.25E+00	0.152371203	16	5.90E-01
2.33E+00	-0.056143422	24	8.30E+00
4.41E-02	0.513095982	18	2.04E-02
2.15E+05	-0.630234155	26	1.83E+04
6.86E+03	0.024251838	67	7.09E+01
5.59E-01	-0.025048644	3	7.77E-01
5.86E-01	-0.002750398	6	9.45E-01
3.48E-01	0	2	6.69E-01

9.81E+00	-0.649822466	11	8.19E+01
4.20E-01	0	3	7.28E-01
1.73E+01	-0.905045333	6	3.42E+01
1.05E+00	-0.24180662	5	2.02E+00
1.94E+00	0.098031304	7	6.58E-01
2.09E+01	0.274588251	3	3.55E-01
4.79E-01	0.077767477	4	6.23E-01
7.27E-03	0.551864385	42	2.61E-04
9.37E-02	2	3	7.11E-03
4.04E-03	0.491506864	17	2.87E-02
1.42E-01	0.671206865	5	8.08E-02
9.97E-02	0.112607368	7	6.17E-01
3.01E+07	-2	13	6.09E+05
7.94E-01	-0.067424224	7	1.37E+00
2.12E+02	-2	7	9.17E+02
1.17E+04	-0.946776921	17	1.13E+04
6.00E-01	-0.018456618	10	1.45E+00
1.04E+03	-0.005094755	28	6.30E+00
6.17E-01	0.128132114	1	4.94E-01
7.60E+00	-0.214969525	13	7.79E+00
2.73E-01	0.424954887	18	4.67E-02
1.66E+01	0.621969324	10	3.57E-02
1.94E+02	-0.506330361	8	1.31E+01
3.14E+01	-0.907392108	6	3.45E+01
2.06E+01	-0.915922302	7	5.87E+01
1.47E-04	0.433884344	35	6.30E-03
4.20E-01	-0.037849843	3	8.03E-01
1.46E+00	-0.189915404	7	2.36E+00
8.07E+00	-0.441894041	8	9.55E+00
2.65E-02	0.652629015	6	6.98E-02
1.63E+02	-0.786032302	14	7.16E+02
1.23E+03	-0.403712643	22	3.30E+02
1.82E-09	2	15	7.91E-07
1.48E-02	0.728473282	13	9.20E-03
5.25E+00	0.447153146	13	6.87E-02
3.43E+04	-0.273035045	28	2.64E+02
1.07E+00	-0.587585404	6	9.67E+00
1.06E+02	-0.19607672	6	2.04E+00
1.10E+01	-0.495673721	9	1.69E+01
5.09E-01	-0.070618242	3	8.75E-01
1.42E+00	0	5	8.60E-01
4.42E-01	0	3	7.28E-01
1.81E+00	-0.01426838	6	9.89E-01
1.61E+07	-0.485583687	20	4.51E+02
2.37E+00	0.336603782	4	2.81E-01
4.67E+01	-0.631353671	4	5.50E+00
1.52E+03	-1	17	1.05E+05

1.58E+00	0.11568249	13	7.34E-01
4.61E+00	-0.474892425	8	1.12E+01
2.35E+00	-0.199685027	8	2.93E+00
4.04E+00	0.114247062	15	7.90E-01
2.15E-05	1	9	4.08E-04
9.79E-08	2	13	5.19E-08
1.56E-05	2	8	2.90E-05
6.48E-04	2	3	2.80E-03
1.65E-06	3	5	2.65E-05
9.96E-102	3	167	3.19E-85
5.27E-01	-0.087012668	3	9.14E-01
7.75E-01	-0.213035436	7	2.61E+00
2.65E+01	-0.58812621	5	6.83E+00
2.35E+09	-0.874973848	31	4.90E+06
2.09E-07	0.626138423	59	1.93E-06
2.08E+00	-0.427016502	5	3.87E+00
1.75E+02	-0.667528807	10	6.22E+01
1.11E+03	-0.478775517	11	2.82E+01
4.68E-01	-0.067156231	2	7.74E-01
1.84E+01	-1	2	1.09E+01
1.94E+00	0.018193326	37	8.97E+00
4.27E-01	0.01981727	2	6.41E-01
1.32E+06	-2	17	2.62E+07
1.47E+10	-2	21	1.52E+09
1.34E+00	-0.165719498	9	2.91E+00
1.68E-01	0.885682978	8	1.46E-02
2.11E-05	2	9	3.23E-06
1.56E-24	2	58	1.05E-22
9.48E-03	1	12	4.44E-04
1.69E+00	-0.255699522	7	3.15E+00
5.08E-01	-0.029790193	2	7.14E-01
3.04E+04	-0.619795323	12	9.77E+01
1.71E+02	-0.744785476	12	2.26E+02
1.37E+01	-0.651726458	9	3.89E+01
3.90E-01	-0.112882189	3	9.78E-01
8.49E-01	0	6	9.35E-01
3.60E+00	-0.172577183	5	1.58E+00
5.39E+01	-0.555963874	10	3.26E+01
7.60E-01	0	3	7.28E-01
4.03E-01	0	5	8.60E-01
1.41E+00	-0.025828784	7	1.14E+00
2.10E+00	-0.226975583	4	1.59E+00
1.90E+02	-0.738732773	5	1.16E+01
2.66E+00	-0.583809057	6	9.52E+00
2.52E+02	0.071376993	13	1.01E+00
6.43E-02	0.65866698	10	2.89E-02
4.27E-01	-0.043647424	2	7.36E-01

1.40E+00	-0.665354179	1	1.92E+00
1.36E+00	-0.220530244	12	6.75E+00
4.38E-01	-0.00826411	1	6.24E-01
1.75E+00	0	6	9.35E-01
5.10E-01	0.277997771	4	3.37E-01
1.74E+00	-0.13330774	6	1.59E+00
5.69E+02	-0.702425675	9	5.09E+01
9.32E-01	-0.251608363	3	1.41E+00
1.75E+02	-0.620213994	12	9.80E+01
5.04E+00	-0.385732562	7	5.61E+00
3.84E+00	0	7	1.02E+00
4.11E-01	0	4	7.91E-01
2.88E-03	2	8	3.99E-05
2.63E+00	-0.001136511	8	1.11E+00
8.12E+00	0.13731435	8	5.65E-01
1.83E+03	-1	7	2.11E+02
3.10E+05	-0.582616905	30	3.95E+04
6.48E+02	-1	6	5.36E+01
3.34E+00	0.691285697	9	3.01E-02
1.00E-01	0.264806616	4	3.51E-01
2.33E+02	0.238560755	9	3.36E-01
1.04E-03	1	24	5.11E-06
3.94E-03	3	2	2.16E-03
1.78E-03	3	3	6.43E-04
4.95E-05	1	12	1.18E-04
8.99E+01	-2	3	7.98E+01
1.49E+02	-1	4	6.26E+01
5.27E-01	-0.056724418	1	6.78E-01
1.42E+02	0.014085386	10	1.20E+00
2.51E+02	0.345418652	31	3.83E-02
7.78E+00	0.713653666	12	1.30E-02
4.45E+00	-0.039518603	17	3.34E+00
5.80E+00	0.207704601	6	4.09E-01
1.56E-01	0.40424597	12	1.03E-01
5.84E-01	-0.018357972	9	1.32E+00
5.28E-01	-0.029409675	5	9.54E-01
8.33E+00	-0.266158109	11	7.47E+00
6.65E+01	-0.112449936	12	3.27E+00
4.26E+00	0.177524793	5	4.60E-01
1.02E+02	-1	8	2.24E+02
3.39E+01	-0.75698169	8	4.45E+01
4.54E+00	0.098684377	6	6.31E-01
5.50E-02	0.823909913	9	1.48E-02
9.34E+02	0.06131916	13	1.08E+00
1.28E+04	-3	7	6.71E+04
2.83E+02	-0.42352048	11	1.99E+01
5.36E-01	0.01738499	18	2.16E+00

3.13E+01	-0.286662861	11	8.49E+00
1.07E+02	-1	6	7.98E+01
2.90E+00	0.56960488	8	6.85E-02
4.62E+02	0.362012042	20	7.19E-02
7.66E+00	-0.361684682	7	5.04E+00
5.85E+02	-0.454805018	11	2.42E+01
3.93E+02	-0.434021515	11	2.13E+01
1.55E+00	-0.080034404	5	1.14E+00
5.81E+00	-0.216300955	7	2.65E+00
1.07E+02	0.739037605	8	2.99E-02
3.42E+00	-0.2207454	6	2.25E+00
1.52E+06	-0.221113402	22	4.25E+01
1.22E+05	-1	11	2.75E+03
3.29E-01	-0.00109513	7	1.02E+00
3.25E-01	-0.125855413	17	7.23E+00
4.60E-02	0.421355423	11	1.02E-01
8.18E-01	-0.3414351	8	5.85E+00
3.40E+02	-0.482961635	14	7.16E+01
7.36E+00	-0.156628669	16	8.16E+00
7.61E+03	-2	9	6.65E+05
7.90E-01	-0.373367991	10	1.13E+01
1.62E-01	0.408032368	8	1.51E-01
1.60E+00	0.587588962	12	3.02E-02
8.04E+00	-0.131693967	7	1.82E+00
5.54E-01	-0.125237724	2	8.78E-01
5.20E-01	-0.33070599	3	1.73E+00
4.56E+01	-1	5	4.69E+01
4.01E+02	-2	3	8.78E+01
4.03E+02	-2	3	3.03E+02
8.66E+02	-2	5	2.92E+02
1.68E+01	-0.313354393	2	1.32E+00
3.36E+00	-0.076605284	3	8.89E-01
1.32E+00	0.27881297	5	3.22E-01
3.70E-04	1	7	1.94E-03
9.91E+00	1	8	6.72E-03
2.72E+00	0.289786387	5	3.10E-01
6.98E+05	-0.165605704	34	1.53E+02
3.80E-01	0.99342085	10	4.16E-03
6.95E+00	-0.804976346	4	9.37E+00
2.65E+03	-0.685241839	10	6.89E+01
1.71E+00	-0.072832538	7	1.40E+00
5.42E+00	-0.120507318	16	6.00E+00
1.36E-02	0.321316698	9	2.16E-01
4.15E-01	-0.257395919	1	9.57E-01
1.52E+04	-0.719460352	18	2.22E+03
1.05E+00	-1	2	6.51E+00
2.27E+00	0.616195267	8	5.45E-02

3.40E-01	0	12	1.54E+00
3.98E+01	-0.627321567	7	1.64E+01
7.90E-01	1	6	1.62E-02
3.66E-06	1	19	1.62E-06
2.93E-04	1	24	3.56E-07
6.53E+00	-0.044206727	9	1.52E+00
2.16E-03	0.690110835	20	2.44E-03
3.02E-02	0.622620994	14	1.61E-02
4.63E-01	0.150350654	2	4.83E-01
1.56E-02	1	5	7.52E-03
2.52E+01	-0.045815307	9	1.53E+00
1.12E+04	-0.428222662	17	1.09E+02
1.22E+00	-0.13252908	5	1.37E+00
3.45E-01	0.384619806	4	2.43E-01
9.97E-02	0.325252293	5	2.73E-01
4.84E-05	2	6	3.59E-04
4.63E-09	2	12	1.62E-05
1.37E-01	0.743292171	9	2.28E-02
8.97E-01	-0.24227111	4	1.66E+00
4.77E-01	-0.037233986	3	8.02E-01
1.21E+02	-0.720808278	7	2.47E+01
1.05E+01	0.340456707	5	2.59E-01
6.63E+01	-0.424799617	10	1.53E+01
2.60E-04	1	10	2.90E-04
1.79E+04	-0.154983588	35	1.49E+02
4.50E-01	-0.011331891	2	6.86E-01
6.08E+06	-1	10	4.68E+02
6.34E+00	0.567933096	19	1.02E-02
6.52E-01	0.015653737	8	1.02E+00
1.26E+03	-0.293550767	37	2.46E+03
2.17E+01	-0.732090425	10	9.03E+01
2.17E+01	-1	8	3.02E+02
4.87E-01	-0.558797099	3	3.14E+00
6.17E-03	0.936636211	23	6.90E-05
3.41E-02	0.475798471	12	6.39E-02
7.29E+00	-0.214768714	17	1.60E+01
1.80E+03	-0.222756036	18	2.07E+01
2.87E-01	0.316592705	4	2.99E-01
6.68E+01	-0.952637855	8	1.16E+02
2.45E+02	-0.430116886	10	1.57E+01
1.73E-01	0.530202362	24	6.78E-03
1.05E-10	3	14	2.04E-09
2.96E-04	2	4	4.84E-04
7.13E-01	-0.05697457	5	1.05E+00
1.11E+01	-0.106707282	7	1.63E+00
4.66E+00	-0.633461387	3	3.82E+00
8.37E+00	-0.456557888	2	1.80E+00

2.84E+04	-0.887510837	16	4.09E+03
2.25E+00	-0.210058138	4	1.51E+00
2.98E-01	0.093699199	14	8.95E-01
1.04E+01	0.076567612	9	7.98E-01
2.86E+05	-0.78727501	22	2.44E+04
5.12E+02	-2	7	2.99E+03
5.13E+00	-0.866272911	2	4.37E+00
7.82E-01	0.509507443	12	5.10E-02
1.48E-02	1	12	1.33E-03
3.05E+01	-0.501792319	13	6.05E+01
1.36E+01	-2	6	6.21E+02
1.91E-02	0.997281761	17	3.09E-04
6.75E-01	2	2	1.02E-02
7.29E+00	1	11	1.75E-03
5.33E+06	-1	24	2.06E+07
4.19E-01	-0.333910949	1	1.09E+00
1.29E+01	-0.205476462	10	4.29E+00
4.36E-01	-0.010318082	2	6.84E-01
2.68E+01	-0.398242345	11	1.70E+01
2.61E+00	-0.133689924	5	1.38E+00
1.11E+00	-0.346915087	3	1.80E+00
1.60E-01	0.140347593	3	5.04E-01
3.65E-05	1	7	1.50E-03
4.39E-03	1	2	5.47E-02
2.21E+08	-0.408126153	45	1.66E+05
4.95E+02	-3	2	3.95E+02
4.19E+02	-0.511756666	10	2.52E+01
2.16E+00	0.06889353	7	7.49E-01
3.36E+02	-0.541623091	7	1.12E+01
4.44E-01	-0.016664338	2	6.94E-01
5.62E+01	-0.769805556	6	2.00E+01
4.71E+03	-0.846435049	16	2.88E+03
2.51E+02	-0.55050185	7	1.16E+01
3.50E+01	-0.431351973	6	5.19E+00
2.13E+00	0.187006557	4	4.45E-01
8.28E-01	0.911647098	5	3.46E-02
2.30E-03	0.488254238	6	1.34E-01
1.30E-21	2	64	4.80E-19
3.90E-01	0.616066946	3	1.45E-01
1.75E+00	0.223982174	7	3.77E-01
4.75E+03	-2	6	7.92E+03
6.45E+04	-2	10	1.01E+04
2.08E+03	-0.489153561	14	7.50E+01
3.68E+02	0.364564182	18	8.24E-02
1.50E-02	2	6	6.29E-04
7.05E-01	0.542583792	2	2.07E-01
2.89E+02	-0.734888634	5	1.15E+01

3.63E+01	-1	4	2.86E+01
4.58E-01	0	1	6.16E-01
1.31E+00	-0.013345685	3	7.53E-01
2.28E-01	-0.82723112	6	2.51E+01
8.28E+02	-0.8463754	11	2.79E+02
4.38E-01	0	1	6.16E-01
7.53E-01	-0.00734691	4	8.09E-01
2.05E-01	-0.127786388	3	1.02E+00
1.22E+00	0	4	7.91E-01
7.65E-01	-0.310485573	4	2.05E+00
1.05E+04	-0.943526411	13	1.42E+03
3.63E-12	3	18	5.62E-11
8.97E-02	0.289439469	6	2.96E-01
1.04E+05	-0.357915711	29	1.10E+03
3.73E+00	0.219161735	6	3.91E-01
5.01E-01	-0.149741319	2	9.26E-01
8.00E-02	0.226097386	5	3.88E-01
1.21E-01	0.361544317	6	2.22E-01
9.35E-02	0.332168372	9	2.04E-01
1.15E+01	-0.722417409	4	7.27E+00
4.55E-01	0.366240638	5	2.37E-01
3.82E-01	0.245778006	4	3.72E-01
1.97E+01	-0.629420151	5	7.90E+00
8.69E+01	-2	7	4.73E+03
1.10E+03	-0.783047918	10	1.21E+02
3.07E+00	-0.131025074	5	1.36E+00
1.34E+01	-0.801123717	4	9.26E+00
2.81E+02	-1	7	1.74E+02
3.64E-02	1	5	4.71E-03
4.55E-03	3	2	1.78E-03
5.56E+03	-1	16	2.88E+04
2.43E+01	-2	4	4.80E+02
2.38E+00	-0.474739814	6	6.17E+00
1.92E+00	-0.238615828	5	1.99E+00
1.68E+01	-0.462353344	12	3.41E+01
1.24E+02	-0.645225252	6	1.22E+01
1.88E+03	-0.409482848	12	2.39E+01
3.03E+00	0.474582754	3	2.10E-01
1.78E-01	0.541698415	6	1.08E-01
7.77E-03	2	3	2.55E-03
3.24E-03	2	8	3.58E-05
1.72E+13	-0.635066899	32	1.81E+05
4.38E-01	0.120879797	4	5.46E-01
2.68E+01	-0.080593295	11	2.35E+00
2.38E+01	-0.088834126	43	1.30E+02
9.24E-01	0.500206004	55	1.16E-04
6.09E+00	0.036503146	7	8.64E-01

2.56E+00	-0.205219909	5	1.77E+00
5.09E+01	-0.694910527	8	3.29E+01
1.07E+01	0.217284373	10	3.71E-01
2.89E-02	0.596337794	19	7.73E-03
5.65E-25	2	62	4.00E-22
4.92E-01	0.53410712	1	2.47E-01
1.58E+02	-0.52045066	7	1.02E+01
2.68E+03	-0.904924726	9	1.50E+02
1.94E+03	0.507797441	81	2.12E-06
8.89E-01	1	4	9.56E-03
4.82E-01	0.181073896	1	4.51E-01
1.35E+03	-0.14661303	6	1.67E+00
1.01E-04	2	7	2.70E-05
1.94E-09	4	9	7.54E-09
3.24E+02	-0.608309284	8	2.15E+01
1.44E+03	-1	6	8.64E+01
1.28E+00	-0.143401133	3	1.06E+00
1.10E+00	-0.089885165	7	1.51E+00
1.02E+02	-0.514081192	8	1.36E+01
4.18E+01	-0.665447566	4	6.10E+00
6.38E+01	0.091667972	8	7.06E-01
1.58E+00	0.13309182	2	5.02E-01
3.05E+21	-1	44	9.18E+13
4.57E-01	0.05442372	1	5.61E-01
4.57E-01	0.05442372	1	5.61E-01
7.52E-02	0.436161732	2	2.60E-01
5.45E-01	-0.63759123	3	3.86E+00
3.26E+00	-0.038584216	5	9.85E-01
7.74E+03	-1	15	8.79E+03
1.89E+04	-0.59754835	19	1.00E+03
9.23E+02	-0.477137733	17	1.68E+02
1.11E-05	2	8	4.89E-04
6.53E+00	-0.599181446	3	3.49E+00
7.92E+01	0.220213118	11	3.59E-01
3.64E-02	0.119377501	3	5.32E-01
1.56E+02	0.400045549	13	9.62E-02
1.29E+01	-0.271550557	2	1.20E+00
1.95E+05	0.057324948	63	1.98E+01
1.23E+00	0.02781451	5	7.80E-01
2.22E-02	0.373206263	18	7.60E-02
4.09E-01	-0.032393486	1	6.51E-01
4.05E-01	0.182504671	8	4.53E-01
2.33E-01	0.882558122	5	3.84E-02
2.06E-01	0.388776514	6	1.99E-01
7.53E+00	0.592017	13	2.44E-02
2.82E-01	0.916566782	3	6.60E-02
1.03E-04	2	10	1.05E-04

6.27E-04	2	8	1.18E-04
1.26E-01	0.485739084	8	1.03E-01
4.21E-01	-0.400760746	3	2.08E+00
1.43E-01	0.653713668	19	4.39E-03
1.74E-04	2	12	1.54E-05
9.45E-03	1	6	5.35E-03
2.73E-02	1	10	6.65E-04
4.47E-02	1	11	2.68E-03
1.99E-174	2	353	1.14E-131
3.26E-02	0.61595224	3	1.45E-01
1.77E+00	0.340183016	8	2.10E-01
4.12E-01	1	5	2.19E-02
8.04E+00	0.082445154	2	5.60E-01
6.50E+04	-0.810173438	28	4.71E+05
5.49E-01	-0.0105052	2	6.85E-01
4.10E-01	0.008240809	2	6.57E-01
1.70E+00	0.470609229	26	1.08E-02
1.36E+00	0.081845012	10	8.13E-01
2.64E-12	2	14	2.51E-08
2.84E+01	0.144859125	27	7.66E-01
6.97E+06	0.390744694	77	2.61E-04
8.98E+03	-0.677416631	10	6.58E+01
1.35E+00	0.226146842	8	3.66E-01
2.19E+00	0.621417396	4	1.17E-01
5.51E-01	-0.266056177	2	1.19E+00
4.26E-01	0.309716054	3	3.23E-01
4.48E-01	0.029492247	3	6.73E-01
3.47E+02	-0.415213464	13	3.26E+01
9.19E-08	2	10	2.64E-06
7.59E+06	-0.56773581	20	1.05E+03
8.15E-03	0.80042896	9	1.68E-02
5.09E-01	1	9	1.01E-03
4.54E-01	-0.194618064	5	1.71E+00
4.27E+03	-0.860856037	23	8.95E+04
1.86E-03	1	10	2.74E-03
1.76E+01	0.538443846	8	7.97E-02
2.22E+10	-0.717012017	39	1.14E+07
4.49E-01	0.743027939	6	4.87E-02
7.22E+04	-0.509673041	11	3.41E+01
8.85E+00	-0.186608445	11	4.55E+00
2.65E+00	-0.060953805	7	1.33E+00
6.74E-01	0.111776187	6	5.99E-01
2.66E+00	-0.089483003	8	1.71E+00
1.41E+00	0.555254044	20	9.80E-03
1.00E+00	-0.105338747	6	1.42E+00
1.53E-01	-0.046728765	6	1.13E+00
1.61E-02	0.121096858	10	6.48E-01

3.35E-01	-0.105885694	19	7.87E+00
2.25E-01	-0.172017802	6	1.85E+00
7.91E+00	0.476068216	5	1.61E-01
4.14E-02	0.677425208	13	1.33E-02
3.36E-05	1	13	1.93E-04
2.62E-01	-0.335874815	2	1.38E+00
2.53E+00	0.048730449	7	8.19E-01
4.49E-01	-0.067782047	3	8.69E-01
4.10E+03	-0.896549945	8	8.79E+01
4.63E+00	-0.3064604	7	3.95E+00
8.03E+01	-0.486840063	7	8.78E+00
4.31E-01	-0.178217796	5	1.61E+00
2.90E-02	0.641422051	8	4.82E-02
1.53E-02	1	8	1.82E-03
2.00E+00	0.20361105	5	4.20E-01
6.88E+02	-1	15	6.00E+04
6.13E-01	0.820145778	5	4.78E-02
2.20E+00	-0.23294512	13	8.86E+00
4.78E+02	-1	8	6.70E+02
1.93E-04	1	19	2.99E-05
3.70E+01	-0.005907113	5	8.78E-01
2.97E+04	-0.522921308	13	7.04E+01
1.32E+00	-0.27135174	7	3.38E+00
4.16E-01	-0.030812444	3	7.89E-01
8.13E-06	0.566765004	57	1.44E-05
9.29E-02	0.437115105	11	9.28E-02
2.70E-01	0.056175834	5	7.05E-01
3.00E+00	0.11683639	11	6.85E-01
3.51E-02	1	11	1.77E-03
2.20E-04	1	16	2.26E-05
1.02E-01	0.461979837	3	2.17E-01
3.69E-04	0.599450659	29	1.14E-03
2.29E-01	0.195784321	4	4.34E-01
9.49E-03	2	3	1.07E-03
2.17E-04	2	9	1.39E-04
1.33E+00	-0.096075745	2	8.24E-01
9.95E+02	-0.418713413	20	2.26E+02
2.41E+03	-0.659494707	13	1.87E+02
1.23E+02	-1	6	1.08E+02
6.02E-01	0	2	6.69E-01
1.52E+02	-0.158837515	16	8.32E+00
1.57E+01	0.913473928	5	3.44E-02
1.20E-01	-0.012702561	24	4.90E+00
4.45E-01	-0.015812069	2	6.93E-01
2.77E+07	-0.807231305	26	1.84E+05
3.54E+03	-0.016809776	13	1.89E+00
8.74E-01	-0.085517437	7	1.48E+00

8.51E+00	0.059088674	5	6.98E-01
4.12E+00	0.120011073	3	5.31E-01
1.15E-05	2	11	5.01E-05
3.87E-03	0.82280203	8	1.99E-02
8.60E+00	-0.449385785	10	1.76E+01
1.16E+01	-0.119619138	12	3.44E+00
1.26E-03	0.279162493	47	5.31E-02
2.20E+00	-0.719224171	6	1.63E+01
1.53E+01	-0.368871083	4	2.46E+00
1.94E+00	0.424682906	6	1.73E-01
4.52E-01	0.633578776	8	5.01E-02
1.08E+02	0.443104213	13	7.07E-02
7.01E-01	0.142532918	4	5.11E-01
1.14E-06	0.939004178	27	1.71E-05
4.48E+03	-1	9	4.86E+02
3.54E-22	2	52	1.95E-17
5.57E-04	1	14	6.59E-05
2.00E+00	-0.35318548	6	3.81E+00
2.08E+00	0.09154745	5	6.23E-01
2.18E-01	0.881188116	14	2.25E-03
3.59E-03	0.94934544	14	1.34E-03
4.51E+00	0.318419714	6	2.64E-01
1.49E+00	0.089068991	6	6.56E-01
2.15E+02	-0.593775643	9	2.85E+01
9.94E-01	0.024998945	9	1.05E+00
6.97E+01	-0.836026698	5	1.64E+01
4.87E-01	0.04153021	3	6.53E-01
8.49E+01	0.14776031	12	5.74E-01
9.79E-01	-0.302421491	4	2.00E+00
2.15E+00	0.538450988	12	4.20E-02
1.60E+04	-0.762472687	16	1.41E+03
6.45E-02	0.615476061	12	2.51E-02
1.76E-01	0.303416773	14	1.82E-01
2.09E-03	0.725025123	16	4.53E-03
5.34E+02	-0.272694662	13	1.18E+01
1.68E+03	0.333151465	9	2.03E-01
1.24E+05	-2	8	1.55E+04
6.17E+10	-2	14	6.20E+06
2.85E+01	-0.956136387	5	2.50E+01
5.60E+00	-0.60983791	6	1.06E+01
1.36E+00	0.518543691	4	1.61E-01
3.08E-11	2	35	1.65E-12
5.45E+02	-0.406641877	31	3.79E+03
2.91E-01	0.697734263	3	1.17E-01
1.10E-02	0.983325295	15	7.22E-04
1.67E+04	-0.555761985	25	4.97E+03
8.70E-01	0.483586053	3	2.05E-01

7.55E+04	-2	7	1.08E+04
3.60E+01	-0.371665209	16	5.08E+01
9.15E-02	0.625759211	5	9.48E-02
2.31E-01	1	2	7.22E-02
7.09E+01	0.321853225	45	2.30E-02
8.89E-01	0.34798809	4	2.72E-01
1.35E+04	-0.614895675	12	9.46E+01
5.25E-02	2	4	1.33E-03
3.05E-12	0.632783246	30	5.78E-04
3.14E-01	-0.207386414	6	2.13E+00
3.75E+01	-1	5	4.71E+01
7.64E+02	-0.915931889	11	4.31E+02
1.14E+00	-1	3	1.11E+01
8.83E+02	0.119143332	10	6.55E-01
9.16E-02	0.468310489	9	9.87E-02
3.40E-02	0.479023629	8	1.07E-01
5.32E-04	0.807487589	12	6.94E-03
6.28E-02	0.526442316	18	1.80E-02
5.62E-01	0.86355295	12	4.77E-03
1.07E+01	-1	2	6.59E+00
6.30E+01	-0.970176969	4	1.56E+01
3.46E+04	-1	15	1.19E+04
5.17E+12	-0.715836082	34	1.46E+06
3.10E+02	-0.356417449	4	2.36E+00
4.02E-01	0	5	8.60E-01
4.60E-01	0.019649518	1	5.95E-01
4.60E-01	0.019649518	1	5.95E-01
2.81E+00	-0.080910819	2	7.97E-01
3.42E+00	-0.228467284	2	1.10E+00
7.46E+00	-0.08946643	5	1.18E+00
4.58E-01	0	1	6.16E-01
4.58E-01	0	1	6.16E-01
9.00E+02	-0.959673355	11	5.66E+02
2.25E+01	-0.295818403	6	3.03E+00
7.33E+00	-0.623015296	4	5.36E+00
3.69E+00	0.197847461	3	4.33E-01
1.20E+00	0.041666157	1	5.73E-01
5.36E-01	0.034565942	1	5.80E-01
3.23E+00	0.587692075	2	1.87E-01
5.15E+00	-0.105066846	3	9.58E-01
1.07E+01	-0.705354845	4	6.90E+00
1.42E+01	-0.627160207	6	1.13E+01
8.96E-01	-0.445773713	3	2.34E+00
4.10E-01	0.406470333	2	2.78E-01
2.96E-01	0.50733842	11	5.99E-02
7.05E+02	-0.361811549	13	2.23E+01
3.53E+13	-1	36	1.06E+09

1.85E+02	-2	2	7.59E+01
2.02E-01	1	6	3.63E-03
5.69E-04	1	9	9.44E-04
8.34E-02	2	4	3.13E-03
2.29E-01	0.2892292	2	3.58E-01
1.02E+00	-0.519918545	8	1.40E+01
4.11E-01	-0.098154384	11	2.62E+00
4.91E-01	-0.378960233	3	1.96E+00
6.17E-01	-0.046050947	7	1.25E+00
3.85E-01	0	7	1.02E+00
6.28E+00	-0.233536193	19	2.77E+01
2.23E+00	0.394846674	7	1.77E-01
7.85E-01	0.1090433	3	5.47E-01
1.71E-06	1	17	7.51E-05
7.09E-05	2	15	3.56E-06
5.26E+00	-0.364294971	7	5.10E+00
4.84E+04	-0.925341799	10	2.76E+02
1.05E+01	-0.26578247	8	4.04E+00
3.69E+00	-0.411803847	6	4.81E+00
1.87E+01	-0.736555445	10	9.27E+01
1.94E+00	0.383106543	20	5.78E-02
1.42E+03	-1	6	5.81E+01
2.53E+01	-0.473568547	7	8.28E+00
3.45E+00	-0.103127946	4	1.09E+00
9.49E-01	-0.011170564	5	8.94E-01
1.62E+01	-0.51332902	2	2.03E+00
4.06E+00	-0.769483459	2	3.54E+00
9.25E-01	-0.36569599	4	2.43E+00
1.24E+03	-0.523937378	13	7.09E+01
1.64E+04	-0.74793161	11	1.51E+02
1.11E+02	-0.966350944	6	4.36E+01
2.36E+00	0.078398701	3	5.93E-01
1.95E+03	-0.324999177	26	3.43E+02
1.45E+01	-0.213594248	10	4.49E+00
3.07E-02	-0.10355813	5	1.24E+00
2.58E-01	-0.288262065	2	1.25E+00
6.81E-21	2	67	9.37E-21
3.53E+01	-0.197142911	12	5.77E+00
1.75E+00	0.088153582	10	7.84E-01
1.94E+00	-0.141236187	4	1.22E+00
6.17E-01	-0.141715288	4	1.22E+00
2.75E+00	-0.14179311	4	1.22E+00
1.46E+01	-0.058622912	4	9.47E-01
1.59E+03	-0.112643016	35	7.24E+01
2.25E-01	0.130339673	4	5.30E-01
8.27E+00	-0.993274439	5	2.85E+01
2.66E+00	0.199182258	7	4.21E-01

8.86E-01	0.655254395	3	1.31E-01
4.18E-01	0.007195257	3	7.14E-01
6.18E-01	0.209687972	3	4.20E-01
4.77E+01	-0.101802326	8	1.82E+00
1.05E+00	-0.339770978	2	1.40E+00
3.20E+01	-0.208203828	7	2.56E+00
8.33E-01	-0.078344064	1	7.04E-01
1.82E+00	-0.815241026	2	3.91E+00
9.63E-05	0.954612894	18	3.20E-04
2.76E-02	1	2	4.25E-02
5.02E-13	1	46	2.29E-12
7.11E-06	2	6	6.19E-05
6.25E-01	1	5	7.41E-03
1.69E+00	0.012431089	5	8.23E-01
5.89E+01	-0.515884332	11	3.55E+01
2.58E+00	-0.878209398	2	4.48E+00
1.13E+02	-0.840919034	4	1.05E+01
3.40E+01	-0.253958979	9	4.65E+00
7.11E-01	-0.317214782	2	1.33E+00
6.66E+08	-1	28	4.71E+09
4.15E+00	-0.345264083	6	3.69E+00
5.45E-01	-0.063458847	2	7.68E-01
3.68E+01	0.370904148	20	6.56E-02
4.40E-01	-0.128652163	2	8.84E-01
2.64E-01	-0.211306888	11	5.31E+00
1.14E+03	0.323753517	21	1.00E-01
6.02E-01	-0.058112619	7	1.31E+00
1.24E+02	-0.191614285	8	2.82E+00
2.15E+01	-0.35349125	7	4.86E+00
2.41E+01	-0.5524404	8	1.64E+01
4.70E+00	-0.450185973	4	3.15E+00
1.96E-01	1	3	3.39E-02
9.66E-02	0.879406067	6	2.83E-02
1.83E-01	0.794435388	11	9.98E-03
1.43E+06	-0.389179921	17	7.65E+01
8.04E-01	0.283081177	11	2.43E-01
4.06E-01	0.313186132	1	3.60E-01
1.89E-01	2	3	1.10E-02
1.86E+00	0.187307014	8	4.43E-01
2.53E-03	0.643911542	16	9.02E-03
1.39E+03	-0.05304544	9	1.59E+00
1.64E+01	0.100355715	15	8.84E-01
1.92E-02	1	5	1.72E-02
4.45E-04	2	8	1.77E-05
2.35E-05	1	17	6.18E-05
4.11E+00	-0.010308784	8	1.16E+00
9.05E+02	0.705285176	14	8.58E-03

5.52E-03	1	9	4.61E-03
2.07E-03	1	20	7.85E-05
4.58E+01	-0.337126851	7	4.52E+00
7.98E+00	-0.211262573	5	1.81E+00
5.53E-01	0.233955093	2	4.03E-01
4.78E-01	0.057124051	3	6.26E-01
2.04E-03	1	6	3.20E-03
1.15E+00	-0.120183302	5	1.31E+00
6.44E+00	0.152778279	35	7.72E-01
1.66E+07	-0.828256419	18	6.18E+03
3.72E+02	-0.802269649	4	9.29E+00
5.93E+01	-0.176077832	3	1.15E+00
6.47E+01	-0.124338698	7	1.76E+00
1.18E+00	-0.295294781	5	2.43E+00
2.79E-03	0.927148927	5	3.28E-02
4.13E-02	0.405558802	36	9.25E-03
4.16E-01	0.601827159	3	1.51E-01
5.39E-03	1	3	1.99E-02
1.31E+00	0.070179837	6	7.07E-01
2.81E+01	-1	3	2.09E+01
1.29E+00	1	9	2.69E-03
1.38E+07	-0.87754483	24	1.76E+05
5.12E-01	-0.082151777	1	7.09E-01
9.22E+01	0.201683187	15	3.91E-01
2.22E+00	1	9	2.05E-03
1.23E-01	0.382802057	8	1.70E-01
2.98E+02	-1	17	1.02E+05
1.72E+01	-1	6	7.99E+01
1.16E+00	-0.343176208	2	1.41E+00
5.93E+03	-1	9	2.75E+02
2.31E+07	-2	15	2.28E+06
6.26E+01	0.64221726	9	3.90E-02
5.29E+00	-0.260050411	4	1.76E+00
7.80E-03	0.5226507	27	4.70E-03
9.95E-01	-0.322159379	7	4.23E+00
9.05E+02	-1	13	1.79E+04
1.73E+02	-0.171272096	26	4.63E+01
3.86E-01	0.404553167	1	3.08E-01
6.20E-01	0.027703343	9	1.04E+00
3.94E-01	-0.029354272	2	7.13E-01
1.89E-02	0.702777538	7	4.52E-02
1.97E-03	1	13	6.83E-04
9.00E-01	0.620721809	5	9.65E-02
1.38E-01	-0.023701868	4	8.51E-01
5.13E+02	-0.750219895	13	3.57E+02
1.02E-03	0.64588561	19	4.74E-03
1.81E+01	-0.889148728	7	5.22E+01

5.31E+01	-0.071739318	6	1.24E+00
1.24E+01	0.249762369	8	3.26E-01
1.32E-02	0.834302429	35	6.67E-06
1.44E-02	2	5	2.00E-03
1.02E-01	-0.153548112	4	1.27E+00
2.66E-01	0.865595396	7	2.20E-02
1.32E+00	-0.230759068	21	3.93E+01
8.02E-04	2	4	3.78E-04
8.44E-12	5	8	3.63E-11
9.98E-01	0.199040234	6	4.24E-01
3.35E+01	-0.299595298	10	7.39E+00
3.56E+00	-0.255732393	4	1.73E+00
2.32E+01	0.098238894	15	8.99E-01
4.37E-01	-0.031691299	4	8.72E-01
6.80E-01	-0.422330147	9	1.14E+01
4.41E-01	-0.212123143	5	1.82E+00
2.90E+01	-0.187459273	4	1.41E+00
1.90E+00	-0.57817777	3	3.31E+00
5.59E+00	0.235102387	15	2.99E-01
4.65E+01	0.454070588	8	1.20E-01
1.27E+02	-0.259650761	10	5.87E+00
2.10E+02	-0.641079698	13	1.64E+02
2.45E-03	0.746493478	12	1.04E-02
6.44E-01	-0.171722657	3	1.14E+00
1.19E+00	0.427335171	5	1.91E-01
1.38E+00	0.187348189	8	4.43E-01
1.82E-01	-0.556766656	4	4.37E+00
8.55E+02	-0.48057603	12	3.85E+01
2.68E+03	-0.726721402	11	1.32E+02
5.23E-01	-0.029360882	1	6.47E-01
1.27E-01	0.468651922	7	1.27E-01
8.13E-01	-0.132203375	4	1.19E+00
1.44E+03	-0.054313151	26	1.01E+01
8.99E+00	-0.433027968	10	1.60E+01
6.73E+03	-0.237955117	32	3.48E+02
4.76E+00	-0.045939163	11	1.89E+00
8.29E-01	0.669464355	3	1.26E-01
3.64E+00	0.5322625	6	1.13E-01
8.86E+02	-0.273556332	7	3.41E+00
4.89E-01	-0.069298759	4	9.78E-01
3.61E+05	-0.637161185	21	3.12E+03
1.06E+06	-0.970356886	20	6.69E+04
5.73E+00	-0.230436696	3	1.33E+00
2.35E+00	-0.415931309	2	1.65E+00
5.71E-02	2	3	1.17E-02
5.52E-02	0.493445375	7	1.14E-01
4.79E-18	2	48	3.34E-20

5.43E+02	0.735557582	8	3.05E-02
1.23E-01	0.340895343	14	1.37E-01
3.87E+01	-0.547287098	10	3.10E+01
1.05E+00	0.005699519	17	2.23E+00
3.67E+00	-0.141418944	7	1.90E+00
1.75E+02	-0.480166892	7	8.52E+00
2.91E+00	0.60708674	4	1.23E-01
9.84E+01	-0.540130462	10	2.97E+01
4.18E-01	-0.005612482	4	8.05E-01
6.41E-01	0.130716889	3	5.17E-01
6.40E-01	-0.057070979	3	8.45E-01
2.10E+01	-0.656516186	9	3.99E+01
2.51E+01	0.243506071	4	3.74E-01
2.58E+03	-2	12	1.47E+05
1.11E+04	-0.312711819	24	1.86E+02
5.80E-01	0	6	9.35E-01
7.86E-01	-0.106643628	5	1.25E+00
4.42E-01	-0.001556134	2	6.71E-01
7.78E-01	-0.261542422	2	1.18E+00
1.45E+00	0	4	7.91E-01
3.29E+00	-0.245486223	4	1.68E+00
1.36E+01	-0.430620164	8	9.04E+00
4.30E+00	-0.55910717	4	4.40E+00
1.57E+00	-0.275879493	10	6.44E+00
1.44E-01	0.808518612	9	1.61E-02
6.23E-05	1	13	2.04E-04
3.63E-03	2	6	1.54E-03
1.60E-03	2	5	1.96E-03
1.05E-02	2	4	3.85E-03
9.08E-01	1	4	1.36E-02
6.29E-01	-0.011234908	4	8.19E-01
1.39E+09	-2	26	4.09E+09
6.35E-01	-0.038842824	3	8.05E-01
3.27E+00	-0.267587783	7	3.32E+00
1.99E+00	0.405192051	8	1.53E-01
4.35E-01	-0.075601915	3	8.87E-01
3.16E-03	2	7	1.11E-03
3.64E-02	1	3	3.48E-02
5.99E+00	0.515656326	13	4.21E-02
4.82E+00	0.096163813	4	5.89E-01
3.20E+02	0.301778286	68	1.05E-02
4.29E-01	-0.036334379	2	7.24E-01
4.14E+07	-1	10	4.25E+03
1.32E+03	-1	12	4.00E+03
3.33E+04	-1	9	3.03E+03
1.81E+00	-0.330106664	3	1.73E+00
8.57E+03	0.364554908	33	2.43E-02

4.45E+00	-0.001066433	8	1.11E+00
1.64E+00	-0.304315002	9	6.09E+00
1.69E+04	-2	12	9.82E+04
3.96E+03	-0.360271611	28	8.90E+02
6.43E+00	-1	3	1.03E+01
2.18E+03	-0.583635242	14	1.54E+02
3.11E+00	-0.621209322	4	5.33E+00
3.97E-02	0.305833267	20	1.28E-01
3.28E-02	0.803136808	11	9.45E-03
1.17E+00	0.852704829	5	4.26E-02
9.03E-02	1	7	2.49E-03
7.44E+00	-0.532362985	2	2.12E+00
1.44E+00	0.141133788	14	6.24E-01
6.28E-01	0.014794131	3	7.00E-01
8.01E-07	1	26	5.47E-07
9.50E+01	-0.381495717	11	1.53E+01
1.32E+00	0.012124379	3	7.05E-01
7.46E+00	0.031084847	9	1.02E+00
6.69E+02	-0.386520624	14	3.44E+01
1.01E+02	-1	7	9.92E+01
4.55E-01	-0.009248069	3	7.45E-01
4.29E-01	-0.004974259	2	6.76E-01
3.70E+00	-0.449794979	4	3.15E+00
1.34E+00	-0.153619506	2	9.33E-01
2.45E+02	-0.901659532	13	1.05E+03
4.38E-01	0	2	6.69E-01
1.52E+01	-0.482332984	6	6.36E+00
2.83E-01	0.391322019	2	2.87E-01
1.62E-01	0.637562263	8	4.91E-02
5.84E+00	-0.881255191	4	1.18E+01
6.51E-01	-0.263294542	2	1.18E+00
4.32E-01	-0.008205285	3	7.43E-01
7.75E+01	-0.952878572	5	2.47E+01
1.19E+00	0.12323095	4	5.42E-01
7.09E-01	-0.230211157	4	1.60E+00
1.68E+05	-0.570387212	19	7.68E+02
1.15E+07	0.166573208	73	8.30E-01
5.07E-15	3	22	1.59E-12
3.96E-09	2	8	5.60E-06
1.30E-01	0.184418428	31	4.49E-01
9.00E+00	-0.087084482	5	1.17E+00
6.52E+05	-1	16	1.56E+04
2.23E+01	0.111652085	5	5.80E-01
5.42E-01	1	6	2.43E-03
2.39E-01	0.928219441	9	8.49E-03
1.49E-01	0.109868874	5	5.84E-01
1.13E-10	2	20	2.77E-08

7.67E+01	-2	3	4.12E+02
1.05E+01	-1	1	6.29E+00
7.93E+00	-2	2	7.12E+01
1.01E+02	-3	2	2.67E+02
4.52E+02	-0.31413159	31	9.21E+02
6.55E+01	0.019706461	15	1.69E+00
9.23E-01	0.346718823	3	2.94E-01
3.06E-01	0.292923178	11	2.28E-01
4.47E+00	-0.353473733	6	3.81E+00
9.96E+00	-0.748239388	4	7.87E+00
4.55E-01	0	1	6.16E-01
4.54E-01	0.038098733	2	6.16E-01
1.99E-03	1	11	2.27E-03
2.55E+08	-0.496393512	43	6.05E+05
4.96E-01	-0.48716293	2	1.92E+00
2.03E+00	-0.459466941	4	3.24E+00
4.13E+00	-0.493213816	3	2.65E+00
9.45E+01	-1	5	3.16E+01
9.63E+01	-0.66583291	5	8.98E+00
2.91E+00	0.181464571	2	4.52E-01
3.82E-01	-0.31445673	9	6.43E+00
1.00E-04	-0.165453473	48	1.40E+03
1.59E+00	-0.469439216	3	2.49E+00
6.47E-01	-0.484606468	4	3.50E+00
7.29E+02	-0.966992867	10	3.52E+02
5.24E+00	-0.702355268	7	2.28E+01
6.38E-03	1	11	6.26E-04
9.28E-01	2	1	4.49E-02
1.98E-01	0.375961257	6	2.10E-01
1.42E+08	-2	20	2.00E+08
5.22E+01	-0.355771291	4	2.36E+00
4.03E+08	-2	15	1.76E+07
4.40E+01	-1	5	6.89E+01
9.04E+04	-2	10	2.98E+05
3.91E+02	-1	9	9.62E+02
9.44E+04	-1	10	3.62E+03
6.48E+03	0.123429372	27	1.02E+00
4.79E-01	-0.014020948	1	6.31E-01
5.80E+01	-0.604637838	4	5.06E+00
1.95E+00	-0.492175408	4	3.59E+00
2.10E-01	0.064690215	5	6.85E-01
5.33E-01	-0.466317927	9	1.45E+01
1.19E+02	-0.382558627	12	2.00E+01
2.43E+01	-0.710759081	10	7.98E+01
4.72E-01	0.070715579	3	6.05E-01
8.42E+00	0.503436378	15	3.44E-02
3.04E-01	0.123380453	3	5.27E-01

8.22E+01	-0.225670125	11	5.80E+00
3.16E+03	-0.992390443	8	1.40E+02
1.34E+02	-0.663490694	12	1.31E+02
3.27E+00	-0.271705455	7	3.39E+00
1.93E+00	0.60583208	29	1.04E-03
1.37E-01	2	8	1.08E-04
6.54E+02	0.442150077	23	2.22E-02
4.95E+07	-1	17	4.41E+05
1.04E+00	-0.183999957	4	1.39E+00
1.35E+01	-0.195274578	4	1.44E+00
7.20E+04	-0.782564279	15	1.08E+03
2.97E+01	-0.431160854	5	3.93E+00
5.85E+00	-0.250958764	4	1.71E+00
1.76E+00	-0.574529601	5	6.51E+00
5.96E+03	-0.525457797	10	2.73E+01
5.80E+01	-0.842666843	4	1.05E+01
8.57E+03	-0.329685874	9	6.97E+00
5.54E+00	-0.786193112	8	5.13E+01
6.19E+00	-0.494781367	3	2.66E+00
4.54E-01	-0.047272182	3	8.23E-01
2.62E+00	0.036055318	11	1.13E+00
1.04E+00	0.385173913	10	1.40E-01
1.41E-01	0.49302473	3	2.00E-01
2.50E-01	-0.234214475	2	1.11E+00
1.99E-01	0.036801377	2	6.18E-01
8.50E-03	1	8	3.28E-03
2.11E-01	0.945050025	6	2.18E-02
2.08E-02	0.095161119	9	7.23E-01
7.36E+04	-0.009843998	16	2.34E+00
1.25E+02	-1	6	5.95E+01
4.19E+02	-0.357970843	8	6.34E+00
8.12E+01	-0.71594197	4	7.13E+00
2.50E+00	-0.695840013	2	3.02E+00
4.04E+01	-0.850918655	13	7.33E+02
5.19E+00	-0.728493442	4	7.41E+00
2.63E-04	-0.233442186	26	1.04E+02
6.34E+01	-0.567969256	13	9.71E+01
2.59E+01	0.13332601	6	5.50E-01
5.90E+00	0.715073055	9	2.65E-02
2.06E+00	0.876717029	2	1.00E-01
5.21E+24	-1	68	5.98E+20
1.45E+00	-0.029218383	7	1.16E+00
2.62E+02	-0.703450355	10	7.65E+01
1.63E+00	0.088478612	7	6.87E-01
6.72E-01	0.186414776	3	4.47E-01
1.49E+01	-0.024041927	8	1.24E+00
6.85E+03	-1	5	5.68E+01

5.00E+03	-2	4	1.53E+03
3.41E+03	-1	8	5.02E+02
1.55E+00	1	8	3.03E-03
1.19E+04	-0.777562908	25	8.09E+04
6.23E-04	2	20	4.81E-07
3.31E+01	-0.632548893	11	7.35E+01
4.19E+00	-0.376682203	11	1.49E+01
1.57E+00	0.808994176	5	4.97E-02
3.22E-01	0.718438835	9	2.60E-02
4.96E-01	-0.028790156	3	7.84E-01
9.60E+03	0.166793999	24	5.56E-01
1.05E+00	0.084414605	3	5.83E-01
2.55E-01	-0.104642863	10	2.39E+00
3.58E+00	-1	2	6.44E+00
1.33E+02	-0.19170436	5	1.69E+00
3.49E+02	-0.430282358	8	9.03E+00
4.92E+03	-2	10	1.43E+04
6.27E+00	-0.514705076	5	5.27E+00
1.43E+00	-0.490667863	2	1.94E+00
2.58E+00	-0.780773638	5	1.35E+01
5.31E+00	-0.458038007	5	4.32E+00
3.27E+01	0.089136433	3	5.76E-01
6.68E+01	-1	2	1.68E+01
5.02E+02	-2	6	6.09E+03
1.17E+03	-0.55397059	8	1.65E+01
1.83E+01	-0.500550788	4	3.68E+00
1.23E+00	-0.024680094	4	8.53E-01
6.35E+00	0.230526323	8	3.58E-01
2.17E-04	1	18	7.59E-06
2.86E-02	1	7	2.10E-03
7.96E+00	-0.211970353	7	2.60E+00
1.36E+04	-0.764361903	11	1.67E+02
2.01E+01	-1	6	6.12E+01
1.97E+01	-0.49149065	7	8.96E+00
9.48E+00	-0.535013375	7	1.09E+01
7.08E-01	-0.308672942	3	1.63E+00
1.85E+00	0.067871965	4	6.42E-01
1.38E+02	0.708177163	12	1.35E-02
3.59E+01	0.084753997	8	7.30E-01
1.91E+02	-1	7	1.06E+02
1.50E+02	0.377073822	5	2.28E-01
1.16E+01	-0.411901937	5	3.67E+00
8.67E+00	0.303281891	29	8.12E-02
3.70E-01	0.074730368	7	7.30E-01
3.27E+00	-0.317986823	5	2.64E+00
4.89E+02	-0.700529996	7	2.26E+01
1.15E+04	-1	11	1.07E+04

1.35E+01	0.338530875	9	1.97E-01
5.88E+00	-0.058824887	16	3.55E+00
1.14E-04	1	12	1.59E-04
9.75E+00	-0.220454694	5	1.87E+00
2.34E+04	-1	13	7.00E+03
8.77E-01	-0.688849553	2	2.97E+00
7.41E-01	-0.12415329	2	8.76E-01
5.33E-01	-1	2	8.05E+00
4.53E+00	-2	3	7.31E+01
3.34E+02	-2	3	1.07E+02
7.04E+01	-1	3	3.05E+01
8.50E+01	0.186203232	6	4.46E-01
9.68E-01	1	5	2.33E-02
5.31E-04	2	10	4.73E-05
1.76E-02	2	7	6.04E-04
2.82E-01	0.511466893	23	9.87E-03
2.13E+00	0.662713127	5	8.32E-02
1.15E-01	2	4	2.30E-03
6.35E-03	0.783442231	16	2.75E-03
2.93E-05	1	32	1.85E-07
2.18E-03	1	15	6.85E-05
1.50E+00	0.206067866	11	3.92E-01
1.98E+00	0.140051466	13	6.17E-01
9.61E-01	-0.071057704	27	1.41E+01
3.28E+01	0.537286174	20	1.18E-02
3.23E+00	-0.532148337	5	5.61E+00
2.05E+03	-0.295190316	32	8.57E+02
2.89E-02	0.437581574	16	5.22E-02
9.24E-02	0.094710533	5	6.16E-01
1.55E-01	0.840150149	5	4.45E-02
7.66E+03	-2	10	8.75E+03
1.10E+00	-0.470994223	5	4.52E+00
4.13E+00	-0.346061005	5	2.91E+00
1.31E+00	-0.182435223	13	6.18E+00
1.13E+00	-0.20013914	7	2.47E+00
1.40E+01	-0.752609173	8	4.35E+01
4.28E+00	-0.563787507	11	4.79E+01
7.03E+00	-0.177933127	6	1.90E+00
1.34E+02	0.010956945	15	1.81E+00
2.24E+04	-1	14	1.17E+04
3.90E-03	0.920888349	20	2.25E-04
9.47E+00	0.028664364	18	1.94E+00
2.23E+01	-0.753627415	4	8.00E+00
4.09E+00	-0.363286727	7	5.08E+00
2.47E+00	-0.049833569	4	9.22E-01
1.24E+01	-1	2	1.34E+01
8.83E+00	-0.345723717	7	4.70E+00

2.82E+04	-0.120413959	16	6.00E+00
2.55E+00	-0.183839994	10	3.78E+00
8.35E-07	2	20	8.43E-08
1.18E+00	0.548125711	3	1.73E-01
5.73E-01	0.260500889	3	3.68E-01
1.21E+06	-0.751302861	26	8.88E+04
3.91E+01	-0.820615347	3	6.24E+00
5.04E+03	-1	13	3.26E+03
4.49E+01	-0.217361076	4	1.54E+00
8.35E-01	-0.025392489	5	9.40E-01
5.51E-20	1	69	6.68E-19
1.36E+01	-0.200888136	7	2.47E+00
7.66E-01	-0.021616033	3	7.70E-01
4.44E+01	-0.822954328	9	9.69E+01
2.27E-03	0.806604772	7	2.85E-02
4.95E-01	-0.071465348	6	1.24E+00
9.47E-03	1	13	8.67E-04
1.64E-01	0.914227784	7	1.77E-02
1.67E+00	1	26	1.82E-06
2.67E-01	0.961719121	9	7.10E-03
9.17E-04	0.799759374	41	2.26E-06
2.10E-02	0.841668122	5	4.43E-02
1.29E+07	-0.832446028	21	2.56E+04
1.69E+04	-1	11	2.47E+03
5.92E-01	0.204137917	2	4.30E-01
5.17E-10	2	21	8.91E-09
1.30E-01	1	2	7.57E-02
1.52E-02	1	13	7.20E-04
9.77E-03	1	13	1.29E-03
7.50E-02	0.345221239	9	1.90E-01
6.30E+00	0.023664056	8	9.84E-01
3.08E+03	-1	8	1.67E+02
1.68E+01	-0.393418048	14	3.62E+01
5.69E+00	-0.485054915	4	3.51E+00
3.27E-01	-0.051945796	7	1.28E+00
2.84E-01	-0.181689889	7	2.27E+00
3.25E-01	0.879927018	8	1.51E-02
3.16E+02	-0.509807336	11	3.42E+01
2.09E+04	-0.993767245	14	3.47E+03
4.30E+03	-0.657500004	10	5.87E+01
1.18E+05	-0.701695633	25	3.11E+04
1.24E-10	3	12	1.36E-08
3.86E-01	0.033858452	2	6.22E-01
1.21E+01	0.066655494	36	3.55E+00
3.64E-10	2	21	1.89E-09
2.36E+00	-0.620000576	5	7.64E+00
1.30E-07	2	21	6.83E-08

2.66E-02	1	3	5.05E-02
1.31E-01	0.583331777	5	1.10E-01
7.43E-01	-0.296615595	7	3.78E+00
1.03E+01	0.336669702	9	1.99E-01
2.77E+01	-0.036133762	14	2.40E+00
2.50E+00	0.205558541	30	3.28E-01
2.42E+02	-0.523267085	10	2.70E+01
4.11E+02	-0.684091296	12	1.50E+02
4.24E+00	-0.23416753	7	2.87E+00
2.86E+00	0.418153609	11	1.04E-01
3.26E+00	-0.231873135	10	5.00E+00
4.23E-01	-0.203496637	7	2.50E+00
1.18E+00	0.206969712	4	4.19E-01
1.30E+00	-0.149569674	8	2.29E+00
3.99E+03	-0.978754584	10	3.77E+02
3.43E+00	-0.420309617	2	1.66E+00
6.77E+02	-0.558075678	12	6.46E+01
3.87E+00	-0.972536275	6	4.47E+01
1.07E+01	-0.799996152	7	3.51E+01
9.89E+03	-1	10	1.05E+03
1.32E+01	0.630873504	6	7.61E-02
7.54E-01	1	18	1.96E-05
1.19E-01	1	5	1.43E-02
1.36E+09	-0.898162296	30	4.28E+06
1.29E+03	-0.482854694	9	1.58E+01
8.37E+05	-0.788991453	13	4.71E+02
1.34E+00	-0.310070475	10	7.85E+00
1.15E-03	1	13	1.25E-03
2.17E+04	-1	13	9.79E+03
3.05E+03	-2	11	8.73E+04
1.25E+02	-1	5	1.52E+02
7.42E+32	-2	60	9.20E+21
1.59E+01	-0.78694902	6	2.14E+01
3.71E+04	-1	10	2.07E+03
6.00E+02	-2	7	1.13E+03
3.14E+02	-2	3	1.66E+02
5.26E+00	-0.981805189	3	9.51E+00
3.74E+00	-0.726263432	3	4.87E+00
6.92E+00	-1	7	1.14E+02
4.27E+02	-0.835202845	19	1.05E+04
6.68E+01	0.033486817	11	1.15E+00
2.86E-02	-0.488726525	5	4.81E+00
2.65E+03	-0.912211964	24	2.68E+05
4.94E+00	-0.44220019	5	4.08E+00
4.29E-01	0.049089108	2	6.02E-01
3.88E+03	0.378457684	22	5.09E-02
4.48E-01	0	1	6.16E-01

5.88E+01	-0.297418004	9	5.87E+00
6.52E+01	-0.848165855	7	4.35E+01
2.11E+01	-1	4	4.88E+01
2.56E+01	-1	4	4.18E+01
1.28E-02	0.601616714	10	4.01E-02
3.10E-01	1	7	9.48E-03
1.77E+02	-0.478371983	9	1.54E+01
3.74E+03	-1	14	1.59E+04
9.65E-01	-0.141664313	5	1.42E+00
1.52E+02	-0.783110975	12	2.91E+02
4.58E+03	-0.939171213	12	8.28E+02
5.67E-01	-0.239093612	2	1.12E+00
5.58E-01	-0.049488478	2	7.45E-01
2.87E+01	0.287299585	6	2.98E-01
2.39E-03	0.703945717	17	4.28E-03
3.92E-04	1	9	9.72E-04
2.34E+01	-0.447592017	10	1.74E+01
9.97E+01	0.188108845	7	4.42E-01
6.01E+00	0.53627277	15	2.64E-02
2.76E+00	-0.333834743	7	4.46E+00
1.36E-03	0.772502918	33	3.27E-05
2.40E+00	-0.431971657	7	6.88E+00
1.68E+05	-1	11	1.34E+04
2.06E-02	0.314332216	21	1.11E-01
5.48E+01	1	9	2.63E-03
6.40E-01	0.162392826	9	5.05E-01
6.03E-01	0.156115797	10	5.29E-01
9.76E-02	0.949394663	15	9.49E-04
9.36E+00	1	12	5.68E-04
1.65E-06	0.786726163	26	1.75E-04
3.96E-06	2	11	2.99E-05
4.88E-01	-0.112558438	2	8.54E-01
4.38E-01	-0.27541684	1	9.87E-01
1.10E+00	-0.154587732	4	1.27E+00
4.29E-01	-0.246042686	2	1.14E+00
2.34E+01	-1	5	3.31E+01
6.99E+00	-0.295595318	6	3.03E+00
1.87E+01	-0.68932046	4	6.57E+00
4.49E-01	0	1	6.16E-01
4.47E-01	0	1	6.16E-01
8.05E-01	-0.02408536	2	7.05E-01
3.53E+00	-0.314659413	3	1.66E+00
1.19E+00	-0.264726097	5	2.19E+00
6.74E-01	-0.26540652	3	1.46E+00
4.49E-01	-0.029360882	1	6.47E-01
6.02E-01	0.023611701	2	6.36E-01
2.37E+01	0.04373512	6	7.86E-01

1.78E+01	-0.166780364	5	1.55E+00
8.28E+02	-0.03919518	12	2.01E+00
1.04E+03	-0.695351784	6	1.48E+01
2.41E+00	0.007796868	3	7.13E-01
7.66E-03	1	29	6.64E-07
5.23E-03	0.777615716	23	4.42E-04
1.45E-03	2	5	7.07E-04
1.28E-04	2	9	1.56E-04
1.92E-01	0.659352703	13	1.51E-02
9.05E+00	0.61442338	8	5.50E-02
3.17E+02	-0.54760444	6	8.25E+00
4.08E+05	-1	16	1.20E+04
1.02E+04	-0.602706503	12	8.71E+01
6.35E+01	-1	4	5.47E+01
5.56E+00	-0.343448801	10	9.53E+00
3.58E+01	-0.496430719	14	7.93E+01
2.22E+00	-0.327899469	6	3.44E+00
1.03E-01	0.325334601	6	2.56E-01
1.57E+00	-0.135336312	6	1.60E+00
6.21E+04	-2	6	6.37E+02
1.07E+05	-1	14	2.07E+04
1.90E+03	-0.81679428	9	9.37E+01
6.61E+00	-0.706239776	2	3.09E+00
4.38E-01	0	1	6.16E-01
1.31E+01	-0.790090699	13	4.75E+02
3.26E+00	0.303116595	13	1.92E-01
1.57E+01	-0.177774484	18	1.36E+01
2.28E+00	0.231062829	3	3.97E-01
9.19E-01	-0.111299989	17	6.35E+00
5.66E+01	0.10073851	4	5.80E-01
9.89E+00	-0.326638131	5	2.72E+00
2.05E+00	-0.32576559	6	3.41E+00
5.76E-01	0.868293039	9	1.17E-02
9.83E+02	0.399423737	33	1.38E-02
5.34E+00	0.144332308	5	5.17E-01
1.53E+02	-0.663730284	9	4.14E+01
9.82E-01	-0.023723961	3	7.74E-01
5.84E+03	-0.576025013	21	1.62E+03
3.05E+03	-3	3	1.00E+03
5.29E-01	-0.039703766	1	6.59E-01
4.62E-01	0.113261887	4	5.59E-01
1.34E-04	1	14	2.65E-04
1.93E-03	2	9	6.27E-05
2.53E+03	-0.212199152	11	5.34E+00
3.49E+06	-0.750218165	30	4.76E+05
4.77E+04	-1	15	3.29E+04
8.04E-03	2	4	1.63E-03

7.36E+01	-0.67024117	7	1.98E+01
9.93E+00	0.064752993	5	6.84E-01
2.58E-01	0.638493757	3	1.37E-01
1.79E-03	2	4	3.08E-03
1.03E-06	2	8	5.62E-06
2.94E-03	1	5	6.57E-03
5.64E-05	3	4	1.50E-04
1.87E+00	-0.356741574	9	8.05E+00
2.07E-02	1	9	4.84E-03
5.15E-02	0.293254017	18	1.61E-01
1.06E+00	0.76171748	12	9.42E-03
5.66E-05	2	27	1.47E-10
4.66E-02	0.401436319	7	1.72E-01
1.99E-01	0.106088437	21	1.04E+00
7.68E+00	-0.19850588	6	2.06E+00
8.85E-02	0.905306398	3	6.80E-02
1.05E-02	2	8	1.28E-04
3.29E+00	0.6084188	25	2.17E-03
3.44E-01	0.795695716	4	6.87E-02
1.16E+03	-0.912416715	8	9.50E+01
9.20E+02	-0.578079609	13	1.04E+02
1.02E+01	-0.705797132	3	4.62E+00
1.26E+01	-0.739543937	3	5.04E+00
1.81E+05	-0.843571915	12	4.37E+02
1.76E+01	-0.275381222	14	1.48E+01
1.12E+00	1	4	2.99E-02
6.90E-01	0.432897401	4	2.09E-01
6.64E+01	-0.043640141	13	2.29E+00
1.33E-01	1	5	9.87E-03
1.54E-01	0.756722572	7	3.56E-02
1.58E+02	-0.766308011	6	1.97E+01
1.28E+00	-0.464212179	4	3.29E+00
3.47E-01	0.014273607	1	6.01E-01
4.72E-01	0.008146995	16	2.01E+00
1.52E+03	-1	8	2.68E+02
2.66E+02	-0.094227379	11	2.56E+00
9.28E-01	0.018373431	10	1.17E+00
4.53E-01	-0.019930387	3	7.66E-01
2.42E+00	0.097411356	4	5.86E-01
1.84E+00	-0.125194024	9	2.34E+00
5.85E-04	2	5	2.36E-04
5.58E+02	-1	4	2.58E+01
7.53E+07	-0.546702157	31	3.23E+04
1.06E+02	-0.28097336	7	3.53E+00
3.18E+03	-0.935004324	8	1.06E+02
2.41E+03	-1	8	3.87E+02
1.41E+00	-0.388924867	6	4.39E+00

2.83E+00	-0.168143206	6	1.82E+00
1.92E+07	-1	15	2.02E+05
5.78E+11	-0.691165752	33	6.51E+05
4.69E+12	-0.754898399	35	4.28E+06
1.72E+02	-0.732536989	15	7.22E+02
3.75E+00	-0.378584378	8	7.01E+00
2.93E-03	1	16	8.43E-05
5.06E-01	0.167198008	3	4.70E-01
6.52E-02	0.815903016	8	2.06E-02
4.34E-01	0.711949425	8	3.42E-02
2.52E-01	0.095490109	5	6.14E-01
3.71E-01	0.031704898	3	6.70E-01
2.61E-01	0	1	6.16E-01
9.86E+03	-1	15	2.11E+04
9.32E+00	-1	2	9.33E+00
1.25E+04	-0.80622134	13	5.33E+02
4.38E-01	-0.015570453	1	6.32E-01
4.29E-01	-0.00879127	2	6.82E-01
4.85E-01	0	2	6.69E-01
1.10E+00	0.04656344	3	6.44E-01
9.77E-02	0.984596213	2	7.94E-02
2.60E+00	0.655393481	10	2.94E-02
5.32E+00	0.176877404	15	4.77E-01
5.43E+11	-0.862523768	24	1.47E+05
1.33E+01	0.264896741	3	3.64E-01
5.58E-01	-0.184571687	2	9.98E-01
3.86E-01	0.029262589	2	6.28E-01
1.28E-01	0.269738324	3	3.59E-01
2.13E-15	1	61	1.08E-12
3.55E-10	3	9	1.99E-07
1.27E+00	-0.3180738	5	2.64E+00
7.64E+02	0.169885529	23	5.32E-01
1.03E+05	-0.422141558	22	4.06E+02
7.35E-03	2	3	4.18E-03
1.58E-04	0.951089195	12	2.65E-03
4.78E-03	0.655729355	5	8.53E-02
2.32E+00	-0.605584908	2	2.48E+00
7.81E-01	-0.676416387	1	1.96E+00
2.35E+02	-1	6	2.81E+02
1.83E+05	-2	12	3.77E+04
7.36E-01	-0.287621011	3	1.54E+00
4.53E-01	-0.537088154	2	2.14E+00
4.10E+08	-0.679481686	24	1.59E+04
1.57E+01	-0.310400025	6	3.21E+00
1.74E+00	-0.035644233	5	9.75E-01
5.12E+04	-0.637116755	20	2.15E+03
6.59E+00	-0.509110319	8	1.33E+01

3.28E-06	0.575176985	58	9.60E-06
8.49E-13	3	13	2.01E-09
5.83E-06	1	7	1.45E-03
2.98E+01	-0.047436203	9	1.55E+00
9.53E-02	0.222600496	1	4.20E-01
5.61E-03	0.515026593	10	6.63E-02
1.33E-07	2	19	8.93E-07
1.34E-01	1	7	3.68E-03
9.98E-01	0.809513694	8	2.12E-02
1.06E-12	1	42	3.02E-11
9.78E-01	-0.320635749	3	1.68E+00
7.99E+01	-0.278869998	15	1.87E+01
1.12E+04	-0.884773223	12	5.76E+02
1.59E+01	-0.060674174	11	2.07E+00
3.48E+00	-0.252505144	7	3.11E+00
8.98E-09	3	18	7.56E-11
3.26E-04	2	11	7.17E-05
7.49E-05	0.658889526	31	3.17E-04
9.39E-04	1	7	1.58E-03
3.97E-01	-0.046337787	14	2.59E+00
5.14E-06	0.790148776	28	9.68E-05
1.04E-12	2	38	2.12E-12
2.74E-04	0.765655396	21	8.59E-04
3.14E-08	2	20	1.25E-09
5.11E+00	0.068362119	12	9.76E-01
5.10E-01	-0.022386084	1	6.40E-01
1.49E-21	2	41	2.52E-18
2.48E-03	2	3	1.34E-02
6.24E-01	1	11	2.08E-04
6.44E-01	0.154522485	6	5.06E-01
4.59E-01	0.056771675	1	5.59E-01
3.70E+01	-0.283385538	7	3.56E+00
1.39E+00	-0.376350853	3	1.95E+00
8.63E+00	-0.155772395	4	1.28E+00
2.53E+00	0.365897871	10	1.57E-01
1.68E+01	0.099629811	16	9.24E-01
3.95E-02	1	7	2.55E-03
5.38E-02	0.724386681	6	5.24E-02
1.61E+00	0.261489797	6	3.30E-01
4.44E+03	-1	8	1.20E+03
3.84E+08	-3	10	7.76E+06
1.61E+04	-2	9	4.05E+03
5.05E+03	-0.553704869	8	1.65E+01
5.86E-01	-0.087195195	1	7.15E-01
4.68E+00	0.661765411	10	2.83E-02
3.11E-02	0.425352693	22	3.01E-02
7.80E+01	-0.033640893	10	1.59E+00

1.14E+01	-0.101181998	11	2.67E+00
2.30E+03	0.163046018	14	5.28E-01
1.93E+02	-0.700063387	6	1.51E+01
4.55E+04	-2	9	5.23E+04
1.16E+06	-2	13	1.46E+07
2.87E-01	0.512044124	5	1.42E-01
2.35E-02	0.485166742	7	1.18E-01
2.67E-01	0.002817349	1	6.13E-01
3.64E-01	-0.437428608	8	9.35E+00
5.44E+01	-0.477449349	11	2.79E+01
7.39E+01	-1	6	2.08E+02
3.08E+03	-1	23	6.48E+05
4.18E-21	1	53	2.56E-14
3.03E+06	-0.226540216	29	1.66E+02
4.08E+02	-0.69608401	4	6.71E+00
7.04E-01	-0.029360882	1	6.47E-01
1.79E+01	-0.378422318	5	3.26E+00
1.12E+01	-0.939496987	3	8.51E+00
5.68E+05	-2	14	2.36E+05
2.81E+10	-2	12	1.18E+06
6.84E+01	-0.767306564	6	1.98E+01
7.95E+01	-2	2	4.53E+01
2.27E+01	0.118565797	2	5.18E-01
4.44E-05	1	11	5.03E-04
4.52E+07	-0.627178748	20	1.94E+03
5.35E+02	-0.360281416	37	8.20E+03
5.87E-08	2	22	1.32E-09
9.71E+01	0.008217093	8	1.06E+00
1.23E+01	-0.66708424	7	1.95E+01
4.56E-01	0.423096445	2	2.68E-01
5.03E-06	2	17	2.32E-06
3.71E-06	2	9	2.23E-05
9.61E-01	0.565188692	2	1.97E-01
5.25E-01	-0.12340771	3	1.00E+00
3.93E+02	-0.802232992	18	4.83E+03
3.07E+04	-2	7	1.04E+04
2.09E+02	-0.735816131	13	3.22E+02
4.31E+01	-0.537423237	4	4.12E+00
3.65E+01	-0.588911964	6	9.72E+00
1.85E-03	0.415177737	17	5.68E-02
3.98E-02	0.719175772	4	8.69E-02
1.33E-01	0.370322373	7	1.97E-01
7.75E-08	1	18	2.77E-06
2.23E-01	0.480819324	4	1.81E-01
7.36E+04	0.503564235	34	2.21E-03
7.82E-01	-0.132676006	9	2.44E+00
1.93E+05	-0.324496693	20	8.56E+01

2.00E+03	-0.068599125	18	4.86E+00
2.03E+04	-1	14	3.65E+03
4.79E-01	-0.032892315	1	6.51E-01
6.46E+03	-0.75339857	10	1.02E+02
4.31E+00	-0.210436659	3	1.26E+00
9.20E-01	-0.386193993	3	2.00E+00
8.35E+01	-0.147327653	19	1.18E+01
3.02E+00	0.405713496	5	2.06E-01
6.21E+02	-0.827092169	6	2.51E+01
1.11E-01	1	8	5.28E-03
4.44E+03	-0.717846284	14	4.26E+02
8.67E+01	-0.588422599	13	1.12E+02
4.16E+05	-0.802886881	12	3.33E+02
7.51E+02	-1	9	4.43E+02
5.12E+07	-0.696871878	23	1.32E+04
6.85E-01	-0.320155831	2	1.34E+00
6.54E+00	-0.059159188	9	1.65E+00
3.87E-01	0.600485256	9	4.88E-02
2.09E-02	0.984964818	11	3.04E-03
5.46E+01	-0.241226834	7	2.96E+00
6.97E+05	-2	10	5.15E+05
5.41E+136	-2	208	1.51E+105
1.21E+02	-4	1	2.65E+02
1.08E+01	-1	3	1.28E+01
2.04E+02	-0.883571602	6	3.14E+01
1.06E-01	1	8	5.30E-03
1.96E+00	0.623420511	1	2.12E-01
1.77E+00	0.292087661	8	2.65E-01
8.53E-04	1	11	1.41E-03
9.85E-07	1	19	1.98E-06
1.98E+08	-0.5296429	38	2.39E+05
2.33E+00	0.817895694	10	1.15E-02
4.59E-01	0.986287468	4	3.83E-02
9.35E-05	0.83004717	27	7.44E-05
2.70E-01	0.594409836	5	1.06E-01
2.45E+08	-2	12	3.20E+05
7.81E-01	-0.229767362	4	1.60E+00
2.10E+01	-0.286709344	18	3.78E+01
2.63E+03	-0.934021582	6	3.83E+01
5.03E-02	-0.238864043	7	2.93E+00
1.36E-03	0.590020373	23	3.95E-03
8.55E-05	1	8	4.04E-03
1.67E-02	2	5	1.53E-03
1.62E-01	1	6	1.73E-02
6.65E-03	0.353486098	16	1.07E-01
8.74E-03	0.515731365	10	6.60E-02
3.18E-03	2	8	3.03E-04

9.82E-05	0.937428106	28	1.24E-05
1.84E+02	-0.312836861	15	2.46E+01
3.72E+00	-0.655933199	5	8.67E+00
3.36E+01	-0.15418781	4	1.27E+00
3.41E-02	0.657243624	30	4.02E-04
3.70E-02	1	6	1.48E-02
4.02E-03	0.767907315	8	2.60E-02
1.38E-01	0.370602682	12	1.29E-01
7.66E-07	2	16	1.62E-06
2.77E-03	2	11	4.44E-05
3.28E-02	0.21938025	18	3.23E-01
1.36E+00	0.452377967	14	5.86E-02
6.47E-01	0.40785054	17	6.07E-02
2.35E+01	-0.112674152	15	4.91E+00
2.46E+06	-2	17	2.06E+06
9.03E-04	0.561767269	21	7.72E-03
3.95E+00	-0.510170332	5	5.19E+00
1.15E-09	2	26	1.42E-09
2.28E+12	-1	27	2.83E+08
8.80E+01	-0.392317452	11	1.64E+01
9.82E-01	-0.611489493	3	3.61E+00
1.05E+00	-0.189439434	10	3.91E+00
3.44E+00	-0.17426965	8	2.59E+00
1.94E+00	-0.165917755	14	6.43E+00
3.61E-01	-0.119625436	3	9.95E-01
1.38E+00	0	5	8.60E-01
1.28E+01	-0.18286143	7	2.28E+00
3.93E-01	-0.022010804	6	1.02E+00
1.18E-01	0.221526747	6	3.87E-01
1.93E-02	1	5	1.10E-02
7.52E-01	0.557852103	3	1.69E-01
1.55E-04	2	15	1.15E-06
4.99E-02	0.877106621	3	7.32E-02
7.34E-02	2	2	7.74E-03
1.56E-01	0.843527996	25	1.13E-04
1.94E+00	0.094974122	6	6.41E-01
3.07E-01	0.266632097	2	3.76E-01
2.43E+03	0.053715893	14	1.21E+00
1.53E+00	-0.199493943	3	1.23E+00
2.88E+00	0.281105207	10	2.57E-01
6.43E-01	0.71202576	6	5.51E-02
1.06E+00	0.623950873	8	5.25E-02
1.91E+01	-0.944807684	7	6.67E+01
1.80E+01	0.433865147	10	1.06E-01
9.45E-02	0.080802789	20	1.31E+00
5.63E+00	-0.388564621	9	9.54E+00
1.37E+00	0.182685611	9	4.53E-01

4.61E+01	0.071475501	9	8.20E-01
4.02E-02	0.840077458	7	2.46E-02
8.85E-05	0.886239953	28	2.54E-05
1.01E+02	-2	2	1.10E+02
6.33E+09	-2	18	2.46E+08
2.01E+05	-0.022094317	25	6.03E+00
3.72E-04	0.674810551	26	7.53E-04
1.98E-11	1	38	2.75E-11
9.82E-01	-0.234785998	1	9.20E-01
4.61E-02	0.971274804	10	4.73E-03
1.33E+01	-0.218160233	9	3.85E+00
2.29E+00	-1	4	3.77E+01
4.81E+01	-0.969000962	4	1.55E+01
8.34E+00	-0.458540191	4	3.23E+00
9.91E-01	0.982546458	14	1.04E-03
1.97E-01	0.344072708	3	2.96E-01
6.55E-01	-0.031596937	1	6.50E-01
3.36E+01	-0.126063148	19	9.60E+00
9.92E-03	1	21	2.79E-05
9.64E-05	1	11	1.34E-03
6.38E-06	2	10	1.93E-06
3.10E-06	2	10	3.76E-05
3.64E-04	1	18	1.89E-05
1.30E-01	2	2	9.15E-03
1.04E-01	0.990256321	6	1.82E-02
5.75E-01	0.47566371	7	1.24E-01
4.53E-01	0.166723358	5	4.78E-01
6.72E-01	-0.487948877	3	2.61E+00
5.02E-02	1	5	4.66E-03
2.58E-01	0.823456583	5	4.72E-02
2.12E-03	0.662315349	29	4.63E-04
1.64E+04	-0.451426136	12	3.17E+01
4.57E-01	-1	9	8.21E+02
1.73E+00	-0.744738741	2	3.36E+00
2.11E+04	-0.759845921	17	2.12E+03
1.05E-06	1	38	4.03E-08
4.02E-01	0	5	8.60E-01
4.11E-01	0	4	7.91E-01
2.66E-01	0	24	4.20E+00
4.02E-01	0	5	8.60E-01
4.20E-01	0	4	7.91E-01
3.69E-01	0	4	7.91E-01
8.93E-01	0.223107117	14	3.35E-01
1.08E+02	-0.573545208	9	2.56E+01
4.28E-01	-0.133418733	3	1.03E+00
9.50E-01	-0.128188887	9	2.38E+00
4.34E-01	0	2	6.69E-01

4.25E-01	0	3	7.28E-01
3.82E+00	0.727922075	4	8.46E-02
1.57E-03	2	11	3.50E-07
3.03E-01	0.5104097	4	1.65E-01
3.65E+01	-0.397119784	10	1.30E+01
1.61E-05	2	12	7.48E-06
1.02E+00	0.30468739	23	1.10E-01
1.14E+02	-0.231700928	12	7.27E+00
8.15E+00	0.338607033	6	2.43E-01
6.87E-01	-0.927229663	5	2.26E+01
1.07E-03	0.770963517	18	1.80E-03
8.59E-02	-0.297037718	3	1.58E+00
7.01E+01	-0.254847246	17	2.30E+01
1.16E+00	0.019408917	3	6.91E-01
2.97E-01	0.392395472	20	5.26E-02
4.61E-02	0.836361951	4	6.06E-02
1.11E+01	0.07189537	5	6.67E-01
5.14E+03	-0.517543215	15	1.28E+02
5.18E-07	1	25	5.03E-07
3.85E-01	0.584029738	15	1.80E-02
5.19E+00	0.534911706	27	3.98E-03
3.18E-10	1	37	1.19E-09
9.27E-01	-0.012251923	2	6.87E-01
6.10E+02	-0.574038781	27	1.24E+04
1.80E-12	1	75	1.31E-13
8.11E-02	2	1	1.83E-02
3.64E-02	1	3	3.24E-02
2.06E+00	1	2	3.50E-02
8.48E-02	0.133169733	20	7.62E-01
9.79E-02	0.910459673	44	9.41E-08
6.90E-01	0.122801028	5	5.58E-01
5.06E+02	-0.242040047	17	2.05E+01
4.70E+00	-0.305427204	14	1.86E+01
1.06E+01	-0.546442367	6	8.21E+00
3.38E+00	-1	3	1.23E+01
6.14E+05	-2	11	4.79E+05
2.55E+03	-0.595466132	8	2.02E+01
3.17E-01	0.054876206	7	7.97E-01
1.85E+00	-0.285202474	20	5.70E+01
1.06E+03	-0.438453292	13	3.85E+01
2.38E+01	-0.619404125	10	4.71E+01
1.12E-01	0.867938772	8	1.60E-02
8.68E-01	-0.287435667	2	1.25E+00
1.12E-19	3	32	1.14E-17
1.93E-04	2	7	1.08E-03
4.23E-01	0	1	6.16E-01
4.38E-01	0	1	6.16E-01

4.82E-01	-0.04481178	3	8.18E-01
5.94E+06	-0.165500503	65	2.07E+04
9.76E-02	0.189416574	7	4.39E-01
4.76E-07	2	15	3.04E-06
5.84E-02	0.876554332	10	8.18E-03
1.19E-01	0.331142422	9	2.05E-01
1.51E+00	-0.09178381	12	2.85E+00
4.55E+05	-0.644444778	24	1.04E+04
3.95E+00	-0.536617696	7	1.09E+01
8.69E+00	-0.508446999	5	5.16E+00
1.21E+02	-0.61400245	9	3.18E+01
1.48E+00	-0.229635056	7	2.81E+00
2.02E+00	0	11	1.42E+00
1.76E+03	-0.462206188	14	6.11E+01
4.29E-01	0	2	6.69E-01
4.20E-01	0	3	7.28E-01
4.20E-01	-1.42E-07	3	7.28E-01
5.05E-01	-0.000129139	1	6.16E-01
3.38E+01	-0.139464113	2	9.05E-01
6.34E-01	-0.018336588	1	6.35E-01
4.31E-01	-0.002687842	2	6.73E-01
3.23E+01	-0.513786804	9	1.86E+01
9.39E+00	-0.114281402	7	1.69E+00
4.78E+01	-0.111008149	7	1.66E+00
4.81E+02	-0.085929833	10	2.15E+00
5.21E-01	0.010224239	4	7.66E-01
2.44E+03	-0.871697278	12	5.27E+02
6.85E-01	-0.00349624	6	9.48E-01
4.43E+00	0	3	7.28E-01
1.47E+00	-0.09944082	3	9.44E-01
4.02E-01	0	5	8.60E-01
4.77E-01	-0.01779561	3	7.62E-01
9.11E-01	-0.089550573	3	9.20E-01
4.02E-01	0	5	8.60E-01
4.40E-01	-4.31E-05	2	6.69E-01
9.84E-01	0.127122672	4	5.35E-01
2.64E-01	1	5	1.88E-02
1.33E+00	0.004507389	2	6.63E-01
4.20E-01	0	3	7.28E-01
4.86E-01	0	3	7.28E-01
4.37E-01	0	2	6.69E-01
3.25E+01	-0.171634165	7	2.17E+00
9.68E-01	-0.214516	7	2.63E+00
3.06E+02	-0.144562279	9	2.60E+00
1.69E+00	0.120839045	4	5.46E-01
8.72E-01	-0.157112171	4	1.28E+00
1.09E+00	-0.148765326	6	1.69E+00

8.35E+00	-0.5335136	7	1.08E+01
8.35E+00	-0.256587986	8	3.87E+00
7.63E+00	-0.410341774	5	3.65E+00
4.71E+00	-0.152217377	7	1.99E+00
1.06E-18	1	62	6.58E-16
3.76E+01	-0.585779117	9	2.73E+01
1.32E+03	-0.620062049	15	2.92E+02
1.15E+00	-1	2	1.26E+01
6.13E-01	-0.266036321	2	1.19E+00
2.47E+00	-0.110228615	4	1.11E+00
7.89E+00	-0.402647343	9	1.03E+01
4.49E+00	-1	4	5.53E+01
2.69E+01	-0.132970862	7	1.83E+00
1.81E+00	-0.409823753	4	2.78E+00
1.07E+01	-0.865806271	4	1.13E+01
2.02E+03	-0.559134281	9	2.37E+01
1.33E+00	-0.170357514	4	1.33E+00
4.03E+00	-0.502875024	3	2.71E+00
9.20E+00	0.019275715	6	8.66E-01
7.33E+01	-0.371208935	13	2.38E+01
3.17E+00	0.326060233	15	1.44E-01
1.19E+08	-2	21	2.04E+10
7.33E+00	-1	4	2.72E+01
3.71E-01	0.685107553	7	4.89E-02
4.28E+01	-1	8	2.67E+02
4.48E+00	0.15280146	7	5.16E-01
8.33E-03	1	11	2.41E-04
4.23E-01	0.130730819	2	5.04E-01
3.25E-01	0.331138647	6	2.51E-01
6.88E-01	0.396827771	15	8.12E-02
8.08E-01	0.207482191	8	4.01E-01
4.11E+02	-0.611279333	18	8.02E+02
5.75E-01	-0.381838418	4	2.55E+00
2.28E+01	-0.223284584	5	1.89E+00
9.98E+07	-1	16	1.36E+05
3.30E-01	0	14	1.82E+00
3.05E-01	0.121199559	14	7.26E-01
2.99E-02	0.823249502	7	2.65E-02
2.45E-01	-0.129219921	4	1.18E+00
2.02E-01	0.473624611	10	8.42E-02
4.73E-01	-0.257598593	37	1.29E+03
3.33E+00	-0.68444208	4	6.47E+00
1.37E+00	-0.087096224	8	1.69E+00
3.99E-02	0.796044893	9	1.72E-02
1.23E+00	-0.565173446	3	3.19E+00
1.94E+02	-0.156207043	3	1.10E+00
2.55E+01	-0.287241433	14	1.62E+01

3.16E+01	-0.379003773	13	2.52E+01
4.37E-01	-0.004455314	2	6.76E-01
2.13E+00	-0.1169293	16	5.82E+00
3.63E-01	-0.001779956	5	8.65E-01
5.17E-03	0.843377385	7	2.42E-02
1.75E+00	0.202889957	29	3.44E-01
2.58E-01	0.224032512	12	3.44E-01
9.96E-02	0.459313057	10	9.15E-02
7.88E-06	2	11	1.17E-05
2.69E+00	0.417384972	17	5.57E-02
9.53E-01	-0.064806528	4	9.65E-01
4.91E-01	-0.024753685	9	1.37E+00
4.79E+00	0.039540028	10	1.04E+00
3.78E+00	-0.244769032	5	2.04E+00
5.85E+06	-2	11	1.36E+05
2.60E+00	-0.206260982	5	1.78E+00
6.97E-01	-0.101622633	9	2.07E+00
4.33E-04	0.536507261	33	1.50E-03
1.23E-01	-0.073484727	24	1.02E+01
2.49E-01	-0.012994124	11	1.54E+00
3.01E+00	0.21149221	27	3.12E-01
6.50E+00	0.229119805	9	3.54E-01
9.97E-02	1	6	1.38E-02
2.77E+00	0.619479574	11	2.97E-02
5.64E+00	-0.21724389	19	2.36E+01
3.27E-09	3	11	5.52E-08
8.13E-01	0.090610428	8	7.10E-01
6.92E-01	-0.446901323	3	2.34E+00
4.45E+02	-0.340812873	12	1.51E+01
1.92E+03	-0.728785424	16	1.06E+03
7.48E-01	-0.535902392	3	2.96E+00
2.64E+05	-0.966675892	24	5.18E+05
1.00E+01	0.142451394	11	5.83E-01
2.06E+00	0.169124711	10	4.91E-01
7.32E+01	0.010793526	4	7.65E-01
1.29E-01	0.542020716	13	3.49E-02
6.91E-01	0.769464385	9	1.98E-02
6.52E-03	2	2	8.49E-03
2.10E-01	0.779372499	2	1.24E-01
2.83E-01	0.229213145	3	3.99E-01
3.15E-01	0.063832351	11	9.53E-01
8.21E-02	0.343683338	5	2.56E-01
4.04E-04	2	12	1.15E-05
2.32E-02	0.669543026	8	4.20E-02
6.25E-01	0.083008767	2	5.59E-01
5.45E-02	1	2	4.00E-02
4.48E-01	0.462548543	6	1.49E-01

7.97E-01	0.142468814	5	5.20E-01
1.46E+01	0.146475333	16	6.20E-01
1.14E+10	-3	10	3.73E+06
6.53E-01	-0.231328928	7	2.83E+00
2.25E+00	0.175849539	13	4.77E-01
1.93E-02	0.361095495	9	1.75E-01
6.10E+01	-0.09665897	11	2.59E+00
9.95E-01	-0.006234942	10	1.35E+00
1.15E+00	-0.069979668	15	3.48E+00
1.81E-01	0.18695883	4	4.45E-01
3.33E+01	-0.479984952	11	2.84E+01
6.35E+05	-0.38526833	43	6.04E+04
1.09E+00	0.135005409	19	7.31E-01
1.12E+00	-0.545964616	3	3.04E+00
4.54E-01	-0.011227639	1	6.28E-01
3.76E-01	0	8	1.10E+00
3.30E+04	-0.791861175	11	1.99E+02
1.22E+02	-1	8	6.49E+02
2.96E+02	-0.849534366	7	4.38E+01
7.20E+03	0.151261934	90	1.81E+00
1.82E-01	0.256842067	5	3.48E-01
4.66E+02	0.092210071	17	1.03E+00
1.51E-01	1	2	2.93E-02
1.49E-01	0.631650897	7	6.19E-02
1.02E+01	0.103605894	14	8.30E-01
3.14E+01	-0.209006418	7	2.56E+00
3.00E-01	0.057958579	12	1.05E+00
1.04E-01	0.034236529	51	1.74E+01
1.08E+01	-0.152205158	13	4.98E+00
6.09E+05	-0.50022773	28	6.26E+03
1.45E+07	-0.308173306	58	3.47E+05
1.64E+00	-0.208860965	5	1.79E+00
1.04E+02	-1	7	2.62E+02
4.26E-01	-0.010366877	4	8.16E-01
7.16E-01	0	4	7.91E-01
4.77E-01	-0.036215878	3	8.00E-01
1.49E+01	-0.856920585	4	1.10E+01
4.69E-01	-0.010912137	2	6.85E-01
1.43E+00	-0.118428073	4	1.14E+00
1.47E+00	-0.046924709	2	7.41E-01
2.08E+01	-0.856579042	7	4.51E+01
1.02E+00	-0.449736461	5	4.19E+00
2.84E+00	-0.27156381	7	3.38E+00
4.10E-01	-0.077422025	4	1.00E+00
3.34E-01	-0.036011302	3	7.99E-01
6.11E+01	-0.333078397	15	2.90E+01
4.96E-01	-0.056303823	7	1.30E+00

1.40E+02	-1	7	7.44E+02
8.45E+00	-0.61125565	10	4.49E+01
6.34E-01	-0.003290351	3	7.34E-01
1.06E+00	0	2	6.69E-01
5.12E-01	-0.053581533	5	1.04E+00
1.79E+00	-0.277048778	2	1.22E+00
1.04E+00	-0.025392138	1	6.43E-01
6.36E-01	0	3	7.28E-01
5.63E+00	-0.288919647	10	6.95E+00
1.75E+00	0.042231564	2	6.11E-01
5.62E-01	0.424004017	4	2.15E-01
1.30E+01	-0.521603753	8	1.41E+01
1.37E+01	-0.399890228	9	1.01E+01
2.05E+01	-0.412602895	7	6.32E+00
4.13E+00	0.031474362	11	1.17E+00
1.24E-04	1	7	4.78E-03
3.50E-01	0.125828888	9	6.14E-01
1.08E-02	2	4	5.85E-03
5.67E-01	-0.01076348	4	8.17E-01
2.13E+03	-0.790064626	16	1.78E+03
4.14E+01	-0.250127468	7	3.08E+00
3.94E-01	-0.012428252	3	7.52E-01
4.41E+02	-0.200932534	40	7.84E+02
1.75E+00	-0.489147965	4	3.55E+00
6.94E+00	-0.639096154	5	8.17E+00
1.48E-02	0.386669674	5	2.20E-01
6.21E-03	0.470231704	14	5.12E-02
7.99E-02	0.922311028	12	3.22E-03
2.89E-01	0.635245311	4	1.12E-01
6.35E-01	0.177715885	4	4.58E-01
1.98E+01	-0.35245312	7	4.84E+00
3.93E-01	-0.026381953	16	2.70E+00
6.30E-01	0.178328293	3	4.56E-01
6.39E-01	-0.16744623	6	1.82E+00
5.42E-01	-0.110164045	9	2.16E+00
8.41E+00	-0.024271998	26	6.82E+00
1.67E+01	-0.363593701	7	5.09E+00
4.81E-01	-0.045389232	6	1.12E+00
6.43E-01	-0.068141763	2	7.76E-01
3.94E-02	0.159169263	13	5.38E-01
6.52E-01	0.423839655	4	2.15E-01
9.57E-02	1	2	5.89E-02
1.19E-04	1	12	1.39E-04
2.44E-20	3	29	1.28E-15
5.97E-01	-0.124323312	9	2.33E+00
6.84E-01	-0.160903351	11	3.87E+00
1.59E+05	-0.139858399	56	2.52E+03

1.75E-09	2	55	8.50E-17
3.78E+01	0.011933694	6	8.91E-01
1.26E+00	-0.108684234	9	2.14E+00
9.30E-01	-0.005695871	6	9.56E-01
4.71E-01	0.114688759	30	1.26E+00
1.74E-01	0.015233759	5	8.15E-01
5.17E-01	-0.016060962	7	1.09E+00
1.03E+00	0.127043944	6	5.64E-01
1.28E+01	0.131665358	10	6.09E-01
2.07E+07	-0.763979388	28	2.47E+05
2.77E+00	-0.612126703	1	1.76E+00
3.73E+05	-0.43905451	52	2.34E+06
1.79E-08	2	23	8.13E-10
1.96E-01	0.274087096	15	2.18E-01
1.99E-03	1	9	4.89E-03
1.43E-05	1	25	5.95E-06
7.19E-01	-0.339041953	4	2.24E+00
4.37E-01	0.019649518	1	5.95E-01
6.70E-01	0.004438735	4	7.80E-01
4.27E-03	0.535897527	25	5.40E-03
4.36E-01	-0.016977652	1	6.34E-01
4.33E+00	-0.366474429	5	3.13E+00
1.06E+00	-0.027092086	5	9.46E-01
4.07E-01	-0.200889506	5	1.75E+00
7.71E+02	-0.839261595	14	1.07E+03
7.46E+00	-0.456912152	9	1.37E+01
1.01E+00	-0.101809981	7	1.60E+00
5.55E+00	-0.403970952	9	1.04E+01
1.29E+00	-0.116114272	8	1.95E+00
1.80E+00	-0.562086804	3	3.17E+00
8.81E+01	-0.279689823	11	8.13E+00
2.07E+00	-0.167827621	5	1.55E+00
4.10E+00	-0.036995037	18	3.61E+00
6.60E+00	-0.477086874	5	4.62E+00
1.74E+03	-0.799579889	13	5.08E+02
5.06E+01	-0.454739641	11	2.42E+01
2.90E+07	-1	16	9.57E+04
1.18E+00	0.300112648	8	2.55E-01
4.01E-01	0.002351734	5	8.53E-01
6.68E-01	0	3	7.28E-01
8.47E-01	-0.19238602	7	2.38E+00
4.11E-01	0	4	7.91E-01
4.04E-01	0	5	8.60E-01
1.73E+00	0.074492759	9	8.07E-01
1.63E-12	2	25	2.23E-12
3.30E+04	-0.025370317	62	2.11E+02
4.94E-01	-0.014299445	5	9.04E-01

1.32E+00	-0.043634715	10	1.68E+00
1.99E+04	-0.40605348	24	5.78E+02
4.29E-01	0	2	6.69E-01
7.58E-01	-0.150308661	6	1.70E+00
1.30E+00	-0.317139802	2	1.33E+00
4.52E-01	-0.078451337	9	1.82E+00
1.20E-04	0.507842788	16	2.87E-02
1.50E-04	1	16	1.23E-04
5.26E-01	0.13459981	11	6.13E-01
3.52E+02	-0.299110701	24	1.58E+02
2.17E+01	-0.19827485	24	4.65E+01
4.32E-01	-0.001062621	2	6.71E-01
5.21E-01	0	4	7.91E-01
4.04E-01	0	2	6.69E-01
4.29E-01	0	2	6.69E-01
5.14E-01	-0.060181253	2	7.62E-01
4.58E-01	0.015762686	1	5.99E-01
5.99E+02	0.249145502	21	2.24E-01
4.18E-01	-0.0210045	6	1.02E+00
1.36E+00	0.251037402	15	2.63E-01
4.86E-01	-0.079290435	4	1.01E+00
3.65E-04	0.400023682	39	7.61E-03
4.82E-01	0	2	6.69E-01
3.57E+04	-0.726211322	16	1.04E+03
2.07E+00	-0.041675073	5	9.96E-01
7.82E-01	-0.39956407	5	3.51E+00
4.17E-01	-0.047989463	3	8.25E-01
6.89E-01	-0.030976154	2	7.16E-01
5.03E-01	-0.219088501	6	2.23E+00
3.01E-01	-0.207816202	7	2.55E+00
3.10E+00	-0.20615103	8	3.02E+00
3.54E+01	-0.212050408	10	4.45E+00
4.36E-01	-0.00739579	2	6.80E-01
4.56E-01	-0.001101773	2	6.71E-01
5.64E-01	-0.113700681	3	9.80E-01
3.59E-01	0.418141201	3	2.43E-01
1.34E-03	2	7	3.95E-05
3.75E-01	0.49063471	1	2.66E-01
8.01E+00	-0.990073911	3	9.72E+00
3.21E-01	0.030322014	3	6.72E-01
6.51E-07	0.611781607	34	3.64E-04
4.44E-01	0	2	6.69E-01
5.05E-01	0	3	7.28E-01
8.16E-01	-0.139579562	6	1.63E+00
1.41E-03	0.782987083	19	1.23E-03
4.41E-04	3	5	3.86E-05
5.82E-02	0.184610671	31	4.48E-01

2.47E-01	-0.092099919	10	2.22E+00
4.39E-01	0	2	6.69E-01
2.50E+01	-0.264701339	13	1.11E+01
5.16E-01	-0.080443169	3	8.98E-01
5.96E-01	-0.011955975	3	7.51E-01
2.65E+01	0.048491033	18	1.61E+00
2.64E+00	-0.13563335	12	3.82E+00
2.52E+00	-0.267938454	18	3.17E+01
3.72E-01	-0.674124187	7	2.01E+01
2.21E+00	-0.515194164	5	5.28E+00
3.94E+02	-0.508252363	15	1.19E+02
2.99E-01	0.20427871	7	4.11E-01
2.86E-02	1	8	7.31E-04
2.67E-01	1	7	9.63E-03
2.48E+00	-0.344230343	7	4.67E+00
2.80E+01	0.10656702	9	6.80E-01
2.27E-01	2	3	8.54E-03
2.15E-02	0.786533048	8	2.37E-02
1.45E+01	-0.382779249	5	3.31E+00
1.42E+00	-0.231057497	5	1.94E+00
2.04E+01	-0.386768612	3	2.00E+00
1.87E+01	-0.705174455	3	4.61E+00
5.59E-03	0.909032657	17	6.82E-04
1.25E-07	2	10	5.56E-06
1.09E-03	1	11	5.30E-04
1.72E+00	0.819399571	4	6.39E-02
2.10E+00	0.609399895	2	1.79E-01
6.42E-02	0.460566895	6	1.50E-01
6.89E-01	-0.070323233	4	9.82E-01
4.50E-01	-0.032776146	1	6.51E-01
6.19E-06	2	14	2.78E-07
3.13E-01	0.16593383	4	4.75E-01
6.49E-06	2	15	9.97E-07
2.33E-03	1	4	1.38E-02
7.18E-03	0.50699796	7	1.08E-01
1.55E-10	1	42	1.21E-10
1.35E-03	2	7	1.25E-04
2.28E-01	-0.133563011	1	7.74E-01
4.59E-01	-0.02354028	9	1.36E+00
1.32E+00	-0.082336471	12	2.68E+00
1.99E+02	-0.005846748	39	1.64E+01
3.60E-01	-0.086236048	10	2.15E+00
4.54E-01	-0.491250693	1	1.43E+00
2.99E+01	-0.551812875	8	1.63E+01
2.80E+02	-0.86534335	4	1.13E+01
1.53E+00	-0.039864117	2	7.30E-01
6.21E-01	0.079414013	7	7.15E-01

1.62E+00	-0.214687545	5	1.83E+00
4.41E-01	0.20797439	4	4.18E-01
4.89E-02	0.642276761	21	3.24E-03
1.21E+01	-0.207536921	26	7.43E+01
3.78E+00	-0.469968012	4	3.35E+00
2.84E+04	-2	7	7.20E+03
4.95E-02	0.153878656	14	5.66E-01
9.82E-10	1	37	2.74E-11
7.28E-01	0.153898017	35	7.57E-01
4.39E-01	0.044082451	2	6.08E-01
6.22E-03	0.492848224	23	1.23E-02
2.07E-05	0.669920814	41	2.97E-05
1.44E+00	-0.232277671	10	5.01E+00
1.00E+00	-0.165314837	4	1.31E+00
7.29E-01	0	2	6.69E-01
3.72E+00	-0.235102225	10	5.09E+00
1.41E+00	0	6	9.35E-01
9.61E-01	-0.078977474	17	4.75E+00
5.77E-01	-0.281219072	11	8.21E+00
1.96E+01	-0.336468334	8	5.71E+00
5.29E+00	0.266345923	7	3.12E-01
4.58E-01	0	1	6.16E-01
6.69E-01	0	1	6.16E-01
5.02E-01	0.02412127	3	6.83E-01
4.27E-01	-0.003363839	3	7.34E-01
4.48E-01	-0.007027507	1	6.23E-01
3.90E-01	-0.591291188	5	6.91E+00
4.88E-01	-0.180070837	3	1.17E+00
3.28E+01	-0.631256841	10	5.04E+01
6.22E-01	-0.116879438	2	8.62E-01
7.09E-01	-0.144069757	6	1.66E+00
7.61E-01	-0.169581854	7	2.15E+00
3.66E-01	0.015014335	6	8.81E-01
6.99E-01	-0.159503703	8	2.41E+00
5.60E-01	-0.030944876	9	1.42E+00
5.48E+02	-0.413127633	12	2.45E+01
1.90E+00	-0.087850923	33	3.70E+01
7.41E+02	-0.420408426	18	1.33E+02
7.33E+01	-0.758754583	3	5.30E+00
4.54E+01	-0.359465119	19	9.59E+01
3.83E-01	-0.057182918	12	2.26E+00
4.38E-01	0	1	6.16E-01
1.19E+00	-0.140765966	4	1.22E+00
1.91E-07	0.994137795	25	1.69E-05
7.33E-01	-0.051344297	10	1.76E+00
3.33E-02	2	1	4.35E-02
4.43E-01	-0.019988462	1	6.37E-01

7.91E-01	-0.245688716	3	1.38E+00
1.30E+01	-0.167743097	18	1.23E+01
1.79E-01	0.982313721	3	5.56E-02
3.29E-01	0.469763295	4	1.87E-01
1.07E-01	1	3	4.81E-02
4.02E-01	0.027578451	2	6.30E-01
1.78E-01	-0.312292585	6	3.24E+00
2.80E+00	-0.120368933	6	1.51E+00
5.65E+00	-0.093128093	10	2.24E+00
1.07E+00	0.008201372	15	1.86E+00
3.80E+01	-0.279147622	9	5.32E+00
4.38E-01	0	1	6.16E-01
4.54E-01	-0.027551396	6	1.04E+00
1.21E+00	-0.100935404	8	1.81E+00
1.81E+00	-0.204553749	5	1.77E+00
6.10E-01	-0.152753215	17	9.20E+00
2.93E-01	-0.012750069	21	3.75E+00
2.16E-01	0.878033238	4	5.34E-02
1.68E-01	0.296986398	6	2.87E-01
2.32E-01	0.116869855	18	8.48E-01
5.41E-01	-0.248584473	2	1.15E+00
9.77E-01	0.532373569	11	5.12E-02
1.62E+00	-0.047921964	13	2.36E+00
1.47E+02	0.348873763	15	1.19E-01
4.28E-01	0	1	6.16E-01
5.52E-01	-0.098476791	6	1.38E+00
4.45E-01	0	1	6.16E-01
4.55E-01	0	1	6.16E-01
4.38E-01	-0.014755132	1	6.31E-01
6.69E-01	0.247787701	7	3.39E-01
8.74E-01	-0.074789866	7	1.42E+00
4.20E-01	-0.063589721	3	8.59E-01
4.38E-01	-0.257395919	1	9.57E-01
5.90E+01	-0.424870984	7	6.67E+00
4.34E+00	-0.060376153	2	7.63E-01
4.40E-02	1	3	3.98E-02
1.67E+00	0.668474568	1	1.96E-01
7.61E-01	-0.058260629	2	7.59E-01
9.81E-06	0.408402497	56	1.16E-03
5.08E-01	0	1	6.16E-01
7.92E-01	1	3	4.13E-02
1.17E-04	1	19	1.11E-05
5.80E-01	0	5	8.60E-01
1.51E+00	-0.304099423	3	1.61E+00
1.34E+01	0.015046424	11	1.29E+00
4.02E-01	0	5	8.60E-01
1.60E+00	-0.188884804	18	1.51E+01

2.31E+01	-0.217435375	11	5.51E+00
5.26E-01	-0.096121603	4	1.06E+00
1.31E-01	0.853923818	3	7.78E-02
6.92E-01	-8.83E-05	7	1.02E+00
4.85E-01	0	7	1.02E+00
1.19E-05	3	8	4.54E-07
1.08E-03	2	6	1.38E-03
9.76E+00	-0.153338656	11	3.70E+00
2.40E-01	-0.175072544	2	9.78E-01
6.54E-01	-0.33154385	4	2.19E+00
1.36E+00	-0.240138238	4	1.65E+00
4.64E-01	-0.069019856	10	1.95E+00
7.99E-01	-0.006964659	3	7.41E-01
3.64E-01	-0.248394943	5	2.06E+00
8.68E+00	-0.181484054	7	2.27E+00
9.01E-01	-0.049261692	6	1.14E+00
1.38E-08	0.59948237	53	1.26E-05
6.25E-01	-0.06639451	3	8.66E-01
3.73E+00	-0.009310493	6	9.70E-01
5.44E-01	0.132514409	8	5.78E-01
3.72E+03	-0.893304508	13	9.93E+02
5.46E-01	-0.060159306	2	7.62E-01
4.91E-01	-0.290678345	9	5.66E+00
1.56E+01	-0.258295062	9	4.76E+00
4.45E-01	-0.019303795	1	6.36E-01
1.51E+00	-0.208394701	7	2.56E+00
4.62E-01	-0.007877149	2	6.81E-01
8.77E-01	-0.067640882	7	1.37E+00
6.05E-01	-0.117728836	9	2.25E+00
5.71E+02	-0.674456646	7	2.02E+01
6.31E-01	-0.02132903	7	1.12E+00
4.25E-01	0	3	7.28E-01
4.18E-01	0.008588099	5	8.34E-01
1.69E+00	0	5	8.60E-01
1.48E+01	0	4	7.91E-01
1.01E+00	0.026176963	3	6.79E-01
1.19E+02	0	6	9.35E-01
3.90E+01	-0.116478084	5	1.30E+00
1.13E+00	-0.0506286	4	9.24E-01
2.02E+00	-0.171288081	3	1.14E+00
9.72E-01	-0.257395919	1	9.57E-01
4.11E-01	0	4	7.91E-01
4.04E-01	-0.001592977	5	8.65E-01
5.20E-01	-0.101876253	4	1.08E+00
1.04E+01	-0.826959419	3	6.34E+00
1.38E+00	-0.104641052	4	1.09E+00
7.24E+00	-0.731499038	8	3.93E+01

1.93E+00	-0.057429992	2	7.58E-01
1.37E+02	-1	7	2.32E+02
6.26E-01	0	5	8.60E-01
4.02E-01	0	5	8.60E-01
7.71E-01	-0.389001719	2	1.55E+00
9.54E+00	-1	5	7.08E+01
3.04E-01	0.472984532	1	2.74E-01
4.37E-01	-0.093764658	4	1.05E+00
3.14E-05	3	6	3.74E-06
4.83E-01	-0.004893933	5	8.75E-01
2.87E-01	0	10	1.31E+00
7.02E-01	-0.094251827	8	1.75E+00
4.38E-01	0	3	7.28E-01
3.62E+01	-0.029130203	10	1.55E+00
2.18E-01	0.044685982	6	7.83E-01
2.82E-01	0.378020549	1	3.22E-01
7.78E-03	0.813996241	9	1.56E-02
2.41E-01	0.41686987	5	1.98E-01
4.33E-01	-0.008044159	2	6.81E-01
1.09E+00	-0.033355743	11	1.75E+00
4.38E-01	0	1	6.16E-01
4.38E-01	0	1	6.16E-01
3.52E+00	-0.044328465	22	5.85E+00
6.14E-01	-0.235180553	10	5.09E+00
5.67E+01	-0.153786823	12	4.32E+00
7.22E-01	0.162371759	2	4.71E-01
4.38E-01	0	1	6.16E-01
4.48E-01	0	1	6.16E-01
7.67E-01	-0.047245004	2	7.41E-01
1.26E+00	-0.13083552	18	8.72E+00
1.26E-07	1	33	7.52E-07
4.33E-01	-0.037922557	1	6.57E-01
4.41E-01	0.576918341	13	2.72E-02
4.93E-01	0	3	7.28E-01
2.65E+02	-0.530168146	12	5.36E+01
1.26E+00	0	5	8.60E-01
3.00E+02	-0.314187753	20	7.69E+01
2.37E+01	-0.398370013	10	1.31E+01
3.34E+00	-0.410284824	4	2.79E+00
3.17E-02	0.247224048	21	2.28E-01
5.05E-01	-0.312897643	2	1.32E+00
5.19E-01	0.226953614	4	3.94E-01
1.64E-01	0.41630562	40	5.03E-03
3.91E-01	-0.151411407	5	1.47E+00
1.90E+00	-0.26409752	4	1.78E+00
4.29E-01	0	2	6.69E-01
2.22E+01	-0.516448299	7	1.00E+01

5.06E+00	-0.279400038	8	4.32E+00
7.50E-01	0	2	6.69E-01
4.32E-01	0	3	7.28E-01
4.38E-01	0.041380849	1	5.73E-01
1.54E-02	0.216104112	28	2.89E-01
7.50E-03	0.381081071	32	2.03E-02
8.08E-01	0.495255095	10	7.43E-02
1.65E+00	0.978750729	7	1.33E-02
5.80E+00	-0.756347861	3	5.27E+00
6.69E-01	0.020289052	2	6.40E-01
1.10E+00	-0.239372915	4	1.65E+00
2.14E+00	-0.513880889	4	3.83E+00
9.86E-01	0.130745677	5	5.42E-01
9.05E-01	0.655614351	2	1.62E-01
7.17E-01	-0.003634896	1	6.19E-01
8.78E-01	0.265077533	3	3.63E-01
6.16E+01	0.305268008	17	1.52E-01
2.80E-02	1	20	1.16E-05
2.96E+01	0.09471829	5	6.16E-01
1.50E-01	-0.02215671	10	1.48E+00
1.61E-01	0.409459148	14	8.12E-02
6.11E-01	-0.118998489	4	1.14E+00
2.92E+00	-0.044576855	41	4.21E+01
2.15E+02	-0.397063165	19	1.39E+02
4.35E-01	-0.014008463	2	6.90E-01
3.29E+00	0.000641567	41	1.72E+01
9.27E+00	-0.987389758	5	2.79E+01
2.99E+00	-0.020809995	6	1.02E+00
8.31E+00	-0.289812477	5	2.39E+00
4.93E+00	-0.160751484	4	1.30E+00
4.34E+01	-0.280217743	7	3.52E+00
4.30E-01	0	3	7.28E-01
3.64E+00	-0.254514642	10	5.69E+00
4.39E-01	-0.016676225	1	6.33E-01
4.39E-01	-0.016676225	1	6.33E-01
4.47E-01	-0.024297375	1	6.42E-01
3.83E+00	-0.21473431	14	9.32E+00
3.94E-01	0.034605823	7	8.72E-01
3.55E-02	0.372935395	23	4.97E-02
1.88E-01	0.34877467	4	2.71E-01
3.15E-01	0.376644794	2	2.96E-01
3.74E-01	0.084581076	5	6.38E-01
3.54E-01	0.263224273	3	3.65E-01
3.25E-01	0.351968817	8	1.98E-01
1.00E+00	0.450135992	11	8.55E-02
4.94E-02	0.327610627	27	6.51E-02
7.31E-02	0.795238057	16	2.49E-03

5.91E-02	1	12	4.56E-04
4.13E-01	-0.192725936	7	2.39E+00
1.99E-02	0.813338515	18	1.21E-03
1.63E+01	-0.226601341	6	2.30E+00
3.89E-01	-0.083716531	15	3.89E+00
1.12E+01	-0.489153226	18	2.54E+02
1.07E+00	-0.198917377	5	1.73E+00
3.65E+00	-0.412816994	4	2.81E+00
7.96E+00	-0.607077704	4	5.10E+00
9.18E+00	-0.091364024	6	1.34E+00
2.28E+03	-0.31598086	37	3.69E+03
7.22E-01	-0.304799796	5	2.52E+00
2.15E+00	-0.537643922	5	5.72E+00
3.61E-02	0.42938553	15	6.25E-02
1.18E+01	0.035038059	4	7.10E-01
2.96E+00	-0.861827021	3	6.95E+00
1.76E+00	-0.151959214	10	3.15E+00
3.95E-01	-0.000714782	4	7.93E-01
2.04E-01	0.357451074	17	9.53E-02
1.24E+01	0.355847288	8	1.94E-01
4.85E+01	-0.63894023	17	7.16E+02
1.32E+02	-1	10	5.97E+02
4.62E+00	-0.63359893	4	5.53E+00
2.18E+02	-1	6	5.18E+01
4.98E-03	0.674615302	20	2.86E-03
5.43E+00	-0.219983977	11	5.60E+00
3.33E+00	-0.222395012	5	1.88E+00
1.66E+00	0.285413014	1	3.78E-01
9.00E-15	2	21	1.76E-08
2.82E-02	0.668974966	18	4.70E-03
2.15E+06	-1	16	2.39E+04
2.36E-02	0.29192829	13	2.08E-01
4.42E-01	-0.042166239	1	6.62E-01
1.01E-01	0.7703134	25	2.83E-04
6.76E-02	0.258694734	5	3.46E-01
1.73E+02	-1	9	2.78E+02
1.59E+01	-0.611045171	12	9.21E+01
8.67E-01	-0.062143847	13	2.61E+00
5.67E+00	-0.846142343	2	4.18E+00
1.88E+05	0.024496361	28	4.17E+00
1.81E+00	0.85473137	7	2.31E-02
1.17E-01	1	3	1.99E-02
3.13E-02	2	9	1.25E-05
3.39E-01	-0.057016189	1	6.79E-01
2.70E-01	0.078714496	6	6.84E-01
2.71E-01	0.223767331	10	3.58E-01
4.91E-01	-0.073102974	4	9.90E-01

4.54E-01	-0.026896737	2	7.09E-01
4.20E-01	0	3	7.28E-01
4.29E-01	0	2	6.69E-01
4.51E-01	-0.032310693	3	7.92E-01
4.89E+00	-0.570735686	10	3.55E+01
1.17E+00	-0.335239438	5	2.80E+00
1.52E+01	-1	6	2.04E+02
8.11E+00	-0.096428069	9	2.01E+00
1.12E+03	-0.681696075	14	3.24E+02
4.02E-01	0.423025763	9	1.26E-01
1.15E+00	0.341325756	4	2.77E-01
1.50E-01	0.134021766	6	5.49E-01
2.60E-01	0.025203256	5	7.87E-01
2.39E+01	-0.772873646	12	2.72E+02
8.51E-01	-0.477664658	4	3.43E+00
1.55E+01	-0.561025236	4	4.43E+00
8.79E+05	-0.678879821	16	6.93E+02
1.15E+03	-0.513777862	12	4.81E+01
8.00E-01	0.06648358	2	5.79E-01
7.24E-01	0	1	6.16E-01
2.48E+00	-0.153100911	18	1.08E+01
7.09E-01	-0.160688932	2	9.48E-01
3.09E+00	-0.029684312	9	1.41E+00
1.05E+01	-0.260531893	10	5.90E+00
3.54E-01	0.159165275	3	4.80E-01
1.76E+00	-0.613675059	1	1.76E+00
6.22E+00	-0.279389976	7	3.50E+00
2.04E+00	-0.141123281	4	1.22E+00
2.94E+08	-0.849714045	19	1.21E+04
9.85E+01	-0.352880737	9	7.89E+00
3.77E+00	-0.318929891	4	2.11E+00
8.38E-01	0.319918009	7	2.46E-01
3.09E+00	0.532072473	5	1.32E-01
1.46E-01	0.402993827	4	2.29E-01
4.41E-01	1	6	3.30E-03
5.15E+02	-0.511649623	16	1.67E+02
2.28E+02	-2	5	2.40E+02
2.21E+00	-0.580314943	3	3.32E+00
1.01E+01	-0.529076251	8	1.46E+01
2.42E+06	-2	20	2.43E+07
9.07E-01	0.039588733	13	1.26E+00
4.15E-02	0.867744423	7	2.18E-02
1.24E-01	1	1	9.18E-02
2.07E-20	2	55	1.27E-16
4.38E-01	0	1	6.16E-01
1.30E+01	-0.825062673	6	2.49E+01
9.30E-02	0.772989932	15	3.93E-03

2.23E+00	-0.113246089	9	2.20E+00
1.47E+00	0.026395553	4	7.29E-01
6.58E+01	-0.15283867	43	4.88E+02
3.93E-02	1	2	3.48E-02
4.87E+00	0.123812158	35	1.27E+00
1.10E-01	0.132837583	16	6.96E-01
1.76E+00	-0.110297451	12	3.23E+00
4.17E-01	-0.464688622	3	2.46E+00
3.91E+00	0.208650844	16	3.65E-01
1.43E+02	-0.252201417	21	4.95E+01
1.78E+03	-0.614358954	11	6.56E+01
4.16E-01	0	2	6.69E-01
2.86E+00	0.069353116	10	8.74E-01
2.44E-01	0.109757528	27	1.23E+00
4.29E-01	0.141139041	25	7.74E-01
5.34E-01	0.006617906	19	2.59E+00
1.63E-01	0.066492188	21	1.60E+00
2.90E-03	0.289865357	51	3.45E-02
3.81E-01	-0.157172108	9	2.78E+00
4.04E-01	-0.06961218	14	3.09E+00
7.96E+02	-0.081376333	13	3.00E+00
6.81E-01	0.515532846	4	1.62E-01
6.04E-01	0.075156945	7	7.28E-01
4.22E+00	-0.288652135	17	3.11E+01
3.74E+04	-0.775533387	11	1.79E+02
1.40E+01	-0.132500354	6	1.58E+00
4.38E-01	0	1	6.16E-01
4.81E-01	-0.048326678	6	1.13E+00
7.91E+01	-0.296867948	17	3.35E+01
1.00E+00	-0.093220877	5	1.19E+00
2.59E+00	-0.045297728	8	1.38E+00
8.72E+00	-0.000814209	11	1.43E+00
6.21E+00	-0.192593829	6	2.01E+00
5.19E-06	2	10	1.94E-05
8.49E-03	-0.182526668	9	3.18E+00
5.90E-02	0.089576378	14	9.23E-01
1.29E+00	0.159636843	13	5.36E-01
5.82E+02	-0.83878618	12	4.23E+02
1.01E+15	-1	32	4.70E+10
6.57E-01	-0.148051571	4	1.25E+00
1.71E+08	-1	24	6.58E+07
3.41E-01	0.129844076	20	7.89E-01
3.53E-01	-0.057527436	12	2.27E+00
1.02E+06	-0.73245966	22	1.32E+04
8.13E+05	-0.911612834	22	9.85E+04
2.80E+04	-0.38734697	17	7.52E+01
9.15E+01	-0.495347441	19	3.66E+02

8.84E+00	-0.157876264	8	2.39E+00
2.63E+00	-0.077940477	9	1.82E+00
2.22E+00	-0.236494232	6	2.39E+00
1.96E+02	-0.872629086	6	3.00E+01
8.42E-01	-0.217189356	7	2.66E+00
6.53E-01	-0.015384975	4	8.29E-01
1.24E+03	-2	12	5.48E+04
4.11E-01	0	4	7.91E-01
4.34E-01	0	4	7.91E-01
3.05E+03	-1	12	2.14E+03
4.43E+00	-0.49873798	4	3.66E+00
7.17E+02	-0.4741971	9	1.51E+01
4.01E-01	-0.055552803	12	2.24E+00
2.78E+00	-0.983735811	8	1.35E+02
6.48E-01	-0.111671296	8	1.91E+00
4.79E-01	-0.073251429	1	6.98E-01
3.74E+02	-1	8	2.46E+02
3.23E-01	-0.200481154	5	1.74E+00
7.56E+01	-0.882626893	7	5.07E+01
1.30E+01	-0.319153721	4	2.11E+00
2.31E+00	-0.340252734	5	2.85E+00
1.46E+01	-0.429648979	10	1.57E+01
1.47E+06	-0.986462149	18	2.74E+04
4.50E-01	-0.000172749	3	7.28E-01
4.29E-01	0	2	6.69E-01
1.44E+00	-0.24399021	3	1.38E+00
1.16E+00	-0.217815483	5	1.85E+00
4.11E-01	-0.11356188	8	1.92E+00
1.94E+00	-0.13518457	12	3.81E+00
5.67E+00	-0.257141852	6	2.60E+00
1.47E+02	-0.705211058	9	5.17E+01
6.58E-01	-0.15832453	3	1.10E+00
2.87E+02	-0.789310434	8	5.21E+01
3.04E+00	-0.535956476	7	1.09E+01
1.54E+00	-0.088358635	6	1.33E+00
1.71E+02	-0.404100568	7	6.08E+00
8.03E+02	-1	6	2.92E+02
3.40E+01	-0.792637404	9	8.24E+01
4.94E-01	-0.031668403	1	6.50E-01
4.49E+00	-0.500072101	3	2.69E+00
1.89E+00	-0.102891404	4	1.08E+00
1.18E+01	-0.265442226	7	3.29E+00
9.94E-01	-0.041524355	4	8.98E-01
1.14E+02	-0.627893926	9	3.42E+01
1.77E+00	-0.739579715	2	3.32E+00
2.82E-01	-0.276571858	5	2.28E+00
1.60E+05	-2	9	1.11E+05

7.92E-01	-0.462930148	5	4.39E+00
2.76E+01	-2	5	9.20E+02
1.87E-01	-0.016896336	6	1.00E+00
3.15E+01	-0.380673078	8	7.08E+00
7.37E+00	-0.563341437	8	1.73E+01
3.85E+03	-1	10	6.62E+03
2.07E-01	-0.036749028	6	1.08E+00
7.02E+00	-0.137447751	12	3.87E+00
3.75E+00	0.261368925	7	3.19E-01
1.12E+00	-0.104767012	3	9.57E-01
1.04E+00	-0.071917623	5	1.11E+00
1.19E+00	-0.280538432	8	4.35E+00
1.87E+00	-0.466313018	7	8.02E+00
8.42E+00	-0.695509584	10	7.31E+01
1.47E+03	-0.080011424	8	1.63E+00
1.20E+00	-0.347206693	4	2.30E+00
3.48E+02	-0.657447437	8	2.74E+01
1.33E+00	-0.412869958	7	6.33E+00
2.34E+00	-0.394227859	7	5.82E+00
1.77E+01	-0.437937914	8	9.37E+00
1.02E+00	-0.504601873	4	3.72E+00
4.28E-01	-0.008763265	3	7.44E-01
4.97E-01	-0.089917878	3	9.21E-01
6.65E+02	-0.84058696	8	6.69E+01
4.46E-01	0	1	6.16E-01
2.49E-01	0.220641707	6	3.89E-01
4.93E+00	-0.355142958	3	1.84E+00
1.70E+00	-0.08554338	6	1.31E+00
2.35E+00	-0.636717282	5	8.10E+00
1.01E+03	-2	4	2.98E+02
1.82E+00	-0.638640161	2	2.67E+00
8.90E+03	-0.827280735	7	3.97E+01
3.29E+01	-0.860957119	5	1.79E+01
1.31E+00	-0.265513637	4	1.79E+00
2.69E+00	0.477663213	6	1.40E-01
4.02E-01	0.027834999	5	7.79E-01
4.22E+01	-0.101835527	9	2.07E+00
1.14E+00	-0.573209409	4	4.60E+00
3.15E+01	-0.70580768	5	1.03E+01
2.57E+00	-0.830620121	5	1.60E+01
4.02E-01	-0.274199009	5	2.26E+00
1.98E+00	-0.045312958	6	1.12E+00
5.37E-01	-0.09606641	3	9.36E-01
3.17E+00	-0.515600005	2	2.04E+00
8.00E+02	-0.468605395	8	1.09E+01
3.69E+03	-0.444215535	14	5.33E+01
2.55E-01	-0.081339048	5	1.15E+00

1.59E+00	0.097513049	9	7.14E-01
8.80E+01	-0.866232878	8	7.58E+01
3.21E+01	-0.854984736	5	1.75E+01
6.14E-01	-0.016911881	3	7.60E-01
6.78E-01	0	3	7.28E-01
1.12E-01	0.30587577	10	2.22E-01
4.07E+00	-0.326872903	7	4.32E+00
4.74E+01	-0.665608751	4	6.11E+00
1.20E+01	-0.374637259	4	2.50E+00
7.97E+02	-0.465716804	13	4.68E+01
1.72E+00	-0.275721974	3	1.50E+00
2.17E+00	0.086707284	2	5.55E-01
4.38E-01	0	1	6.16E-01
1.36E+00	-0.189583963	3	1.20E+00
1.72E+00	-0.220305274	6	2.24E+00
9.95E+00	-0.436797287	12	2.87E+01
1.01E+01	-0.405425481	7	6.12E+00
4.38E+11	-3	25	1.10E+15
1.24E+03	-0.992095903	12	1.18E+03
4.13E-01	0	4	7.91E-01
4.12E-01	0	5	8.60E-01
6.84E+00	-0.154052105	7	2.01E+00
4.22E-01	-0.04122904	3	8.10E-01
4.29E-01	0	2	6.69E-01
3.51E+01	-0.346962979	8	6.01E+00
2.04E+03	-0.296378401	8	4.69E+00
1.07E+00	-0.320502615	3	1.68E+00
4.39E-01	-0.009839724	2	6.84E-01
4.79E-01	-0.041660559	1	6.61E-01
1.05E+03	-1	11	7.78E+02
4.57E+00	-0.248624779	31	3.38E+02
1.11E+01	0.107741091	8	6.53E-01
1.32E+00	-0.266536911	6	2.70E+00
1.49E+00	-0.582257846	2	2.36E+00
4.42E-01	-0.017116909	2	6.94E-01
3.75E+00	-0.036573575	5	9.78E-01
1.88E+00	-0.191879451	5	1.69E+00
3.23E+01	-0.473349359	12	3.67E+01
8.97E-03	0.805380486	14	4.01E-03
4.28E-01	1	2	7.44E-02
7.29E-01	0.017216491	6	8.73E-01
2.32E-01	-0.376068318	7	5.37E+00
5.84E-01	-0.097806028	4	1.07E+00
4.12E-01	-0.000350279	4	7.92E-01
1.96E+00	0	8	1.10E+00
9.12E-01	-0.306277899	4	2.03E+00
1.80E+00	-0.495438593	8	1.24E+01

2.41E+01	-0.984118219	3	9.57E+00
1.68E+01	-0.211786928	9	3.72E+00
1.34E+00	0	3	7.28E-01
9.70E-01	-0.335189424	6	3.54E+00
4.12E-01	-0.019221287	2	6.98E-01
7.01E-01	-0.086239353	9	1.90E+00
3.15E+01	0.738479311	18	2.44E-03
5.05E-01	-0.121459685	4	1.15E+00
4.13E-01	0	4	7.91E-01
1.19E+01	-0.597150071	6	1.00E+01
5.39E-01	-0.008880582	2	6.82E-01
4.78E+00	-0.106021246	5	1.25E+00
5.39E-01	-0.007737773	4	8.10E-01
5.23E-01	-0.08550598	9	1.89E+00
2.53E+01	-1	5	7.33E+01
1.46E+00	-0.156371807	4	1.28E+00
6.09E+00	-0.16028639	5	1.51E+00
7.66E-01	-0.398203935	4	2.69E+00
8.84E+01	-0.548784866	23	2.34E+03
2.53E+03	-0.936644685	21	7.85E+04
1.98E-01	-0.070090196	20	6.20E+00
2.82E-01	-0.025116671	11	1.66E+00
1.20E+00	0.258578172	14	2.56E-01
8.36E-02	0.132043732	14	6.69E-01
3.90E-01	0.019472982	4	7.45E-01
5.98E-01	-0.013649408	14	2.02E+00
5.30E-03	0.486657681	31	4.41E-03
4.38E-01	0	1	6.16E-01
3.06E-01	0.121789056	14	7.23E-01
2.72E+01	0.029544787	41	9.68E+00
4.03E-01	-0.010138459	8	1.16E+00
1.16E+00	-0.618127491	9	3.25E+01
1.68E+00	-0.41740761	14	4.35E+01
7.48E-05	0.861904516	25	8.94E-05
6.60E-01	-0.403230954	5	3.56E+00
1.21E+00	-0.125869316	11	3.11E+00
6.31E-01	-0.146954714	5	1.44E+00
1.01E+00	-0.153844749	5	1.48E+00
9.09E-01	-0.076831992	7	1.43E+00
8.05E+00	-0.579462165	9	2.64E+01
7.59E-01	0	4	7.91E-01
2.41E+00	-0.108791419	17	6.21E+00
3.26E-01	0.057196858	6	7.45E-01
7.30E+00	-0.141848054	28	4.24E+01
3.00E+03	-1	7	2.80E+02
5.86E+04	-1	12	4.61E+03
2.06E+05	-0.627195202	20	1.94E+03

1.03E+02	-0.560122554	17	3.54E+02
9.55E-06	3	6	1.14E-05
4.65E+00	0.168226747	14	5.08E-01
4.56E+01	-0.375809259	24	4.01E+02
3.67E+01	-0.395679556	14	3.69E+01
1.62E+03	-0.727652864	15	6.94E+02
5.45E-01	0.03240743	10	1.08E+00
9.97E+02	0.031662585	49	1.61E+01
9.18E-01	0.215029126	8	3.87E-01
1.08E+00	0.800689469	5	5.12E-02
1.21E+00	0.062635962	25	2.08E+00
1.49E+00	0.317611591	3	3.17E-01
4.50E-06	0.847334149	29	3.23E-05
1.01E-01	0.192739426	7	4.33E-01
4.07E-01	-0.009014935	2	6.82E-01
3.86E-02	0.501948627	21	1.47E-02
1.19E+00	-0.673535105	6	1.36E+01
9.52E+00	0.045107958	9	9.44E-01
7.82E-01	0.336138965	42	2.07E-02
7.71E+00	0.14927985	25	6.99E-01
2.19E-01	0.198953355	3	4.32E-01
3.94E-03	1	7	3.36E-03
1.02E+04	0.254193782	66	5.12E-02
1.42E+01	1	22	4.85E-06
4.87E-07	1	17	6.00E-05
7.63E-06	0.650231907	35	1.56E-04
2.59E-02	0.17442915	2	4.59E-01
3.14E-19	2	55	1.42E-18
4.31E+01	-1	8	1.51E+03
2.27E+00	-0.367461754	12	1.80E+01
1.07E+02	-0.284492463	9	5.48E+00
4.57E-01	0	1	6.16E-01
4.38E-01	-0.504407977	1	1.46E+00
1.28E+00	-0.191945673	2	1.01E+00
4.80E-01	0	2	6.69E-01
1.13E+00	0	2	6.69E-01
2.80E+00	-0.237738432	2	1.12E+00
3.87E-01	-0.066513507	7	1.36E+00
7.03E-01	-0.269155807	5	2.22E+00
1.28E+00	0	3	7.28E-01
8.89E+03	-1	12	1.30E+03
1.33E+02	-1	5	6.21E+01
1.02E-01	0.259184947	7	3.22E-01
1.87E-05	1	10	5.41E-04
1.28E-03	0.543846618	15	2.49E-02
6.17E+04	-2	8	2.62E+03
7.03E-01	-0.160649379	10	3.31E+00

1.87E+00	-0.393886078	3	2.04E+00
3.53E-01	-0.014035859	3	7.55E-01
7.59E-01	-0.475261325	4	3.40E+00
2.08E+00	-0.154901137	4	1.27E+00
2.00E+06	-2	11	7.05E+05
2.58E+03	-1	7	7.63E+02
4.51E+02	-1	6	1.06E+02
1.44E+00	-0.18856536	5	1.67E+00
1.32E+03	-0.602747374	10	4.27E+01
4.09E-01	0.0026577	4	7.84E-01
2.19E+00	0.342499816	7	2.23E-01
6.34E+00	-0.46094392	10	1.88E+01
3.17E+00	-0.080301188	10	2.08E+00
2.34E+01	-0.538723218	9	2.13E+01
6.63E-01	-0.044521261	5	1.01E+00
2.32E+01	-0.071740691	27	1.42E+01
5.65E+00	-0.484787423	2	1.91E+00
2.13E+00	-0.248537854	2	1.15E+00
1.89E+02	-0.012654105	20	3.43E+00
1.13E+02	-2	4	9.77E+01
4.21E-01	-0.328136607	4	2.17E+00
4.47E+01	-0.760056267	10	1.06E+02
4.13E-01	-0.007228353	4	8.09E-01
1.24E+02	-0.490857287	7	8.94E+00
2.09E+00	-0.328750078	5	2.74E+00
3.85E+03	-0.696976174	11	1.10E+02
7.64E+00	0.382375546	6	2.04E-01
1.54E+01	-0.751732624	6	1.86E+01
4.86E+01	-0.050897187	8	1.42E+00
4.99E-01	-0.000171437	1	6.16E-01
8.67E+00	-0.363610391	12	1.76E+01
7.85E-01	-0.0220878	6	1.02E+00
8.49E+00	-0.719202559	5	1.08E+01
1.51E+00	-0.338330516	4	2.24E+00
5.11E-01	-0.036107645	10	1.61E+00
1.52E+01	-0.309354077	11	9.78E+00
6.21E-01	-0.053318532	6	1.16E+00
4.00E-01	-0.004375338	6	9.51E-01
4.01E-01	-0.111973348	3	9.75E-01
4.17E-01	-0.009850657	3	7.47E-01
1.05E+00	0	6	9.35E-01
4.22E-01	0	3	7.28E-01
6.90E-01	0	6	9.35E-01
4.48E-01	0	1	6.16E-01
6.92E-01	0	5	8.60E-01
1.21E+00	-0.030404372	4	8.68E-01
5.78E+09	-2	27	7.78E+09

1.32E+07	-0.706825802	22	9.90E+03
1.72E+00	-0.041158281	9	1.50E+00
4.02E-01	-0.245442919	5	2.04E+00
4.05E-01	-0.017944156	3	7.63E-01
6.90E+01	-0.350908432	11	1.27E+01
2.97E+01	-0.171953043	10	3.53E+00
6.55E+00	-0.262206228	8	3.97E+00
4.29E-01	-0.029612766	4	8.66E-01
7.98E-01	-0.31666541	7	4.13E+00
4.29E-01	0	2	6.69E-01
1.60E+00	0	6	9.35E-01
1.98E+00	0.219995561	15	3.37E-01
3.33E+01	-0.198606632	4	1.46E+00
9.65E+00	-0.698728496	5	1.01E+01
4.24E-01	-0.02731757	3	7.81E-01
2.71E+00	-0.135554077	4	1.20E+00
1.58E+02	-0.236430052	11	6.21E+00
2.49E+01	-0.331274249	13	1.79E+01
1.30E+02	-0.340915154	23	2.07E+02
1.23E-04	1	5	6.55E-03
3.60E-01	-0.088218401	3	9.17E-01
4.55E-01	-0.188787472	2	1.01E+00
2.17E+02	-0.476558585	18	2.26E+02
9.64E+00	-0.188492834	9	3.28E+00
3.43E+00	-0.620919572	5	7.67E+00
4.01E-01	-0.003301594	7	1.03E+00
1.26E+00	0.824026854	5	4.71E-02
4.06E-01	0.793391843	5	5.25E-02
1.90E+02	-0.668083125	11	9.18E+01
4.94E+00	-0.309040699	5	2.55E+00
1.00E+01	-0.05941635	9	1.65E+00
7.62E-02	-0.000362794	13	1.68E+00
1.35E-02	0.207599003	9	3.97E-01
6.80E-01	-0.009887404	14	1.97E+00
1.36E+01	-0.095698431	8	1.76E+00
2.31E+00	-0.134232654	6	1.59E+00
1.07E-01	0.067565652	9	8.37E-01
5.92E-01	-0.008180468	10	1.37E+00
1.84E-04	1	5	4.56E-03
1.03E-02	0.783334132	4	7.14E-02
3.42E-03	0.404487956	16	6.91E-02
7.44E-02	0.278065511	14	2.20E-01
2.85E+00	-0.419738508	32	6.09E+03
6.76E+05	-2	18	9.19E+08
2.67E+05	-1	10	2.54E+03
6.20E+01	-0.729270755	5	1.12E+01
2.17E+00	-0.435548384	8	9.26E+00

1.61E+00	-0.636999506	6	1.18E+01
1.16E+00	-0.759080174	4	8.14E+00
3.26E+00	-0.127379698	7	1.79E+00
1.67E+00	-0.030889439	11	1.72E+00
8.91E-04	1	16	2.52E-04
4.27E-01	-0.00690261	2	6.79E-01
5.77E+03	-1	10	6.80E+02
6.52E+00	-0.243852684	6	2.46E+00
2.50E+00	-0.195022408	13	6.76E+00
1.41E+02	-0.512190436	8	1.35E+01
8.36E-01	0.203471171	10	4.02E-01
7.80E+01	-0.147527822	17	8.78E+00
1.30E+06	-1	14	1.28E+05
2.69E+01	-0.662806177	15	4.12E+02
6.33E+00	-0.205792875	8	3.02E+00
8.00E+00	-0.599253527	6	1.01E+01
7.69E-01	-0.12580705	2	8.79E-01
6.98E-01	-0.673397379	2	2.88E+00
4.16E-01	1	2	6.94E-02
1.80E-02	1	9	2.31E-03
6.00E-02	0.127798032	5	5.48E-01
4.36E-01	0.474069589	6	1.42E-01
1.48E+00	-0.068265874	3	8.70E-01
7.56E+01	-0.875051463	6	3.03E+01
6.90E-01	-0.364295436	4	2.42E+00
1.50E+00	-0.171197297	10	3.52E+00
7.24E+05	-3	7	2.20E+05
5.68E+00	-0.552395251	5	6.02E+00
3.80E+04	-1	11	3.51E+03
4.65E-01	-0.010904243	12	1.66E+00
1.50E-02	0.525812068	15	2.87E-02
4.27E-01	1	3	4.87E-02
1.47E+01	-0.46168368	19	2.63E+02
2.24E+00	-0.351446849	6	3.78E+00
1.25E+03	0.174083185	10	4.77E-01
9.95E-01	-0.216111188	7	2.65E+00
8.15E+00	-1	5	6.06E+01
8.37E+01	-2	6	7.38E+02
2.62E+00	-0.643457468	3	3.92E+00
1.53E+00	-0.178309525	9	3.11E+00
4.77E+00	-0.085849869	7	1.49E+00
4.10E+00	-0.276967824	10	6.49E+00
3.64E+01	-0.416861033	15	5.69E+01
1.39E+00	-0.091482005	7	1.52E+00
1.01E+01	-1	2	1.13E+01
1.09E+00	-0.068030013	2	7.75E-01
8.10E-01	-0.047647709	7	1.25E+00

1.51E+00	-0.02829884	10	1.54E+00
7.78E-04	0.649754337	21	2.99E-03
1.92E+00	-0.023293113	1	6.41E-01
8.24E-01	-0.248757633	3	1.40E+00
5.71E+00	-0.799155488	4	9.20E+00
5.53E-01	-0.026020575	2	7.08E-01
3.66E+01	-0.534516007	5	5.65E+00
5.13E-01	-0.083838453	2	8.02E-01
4.29E-01	0	2	6.69E-01
4.47E-01	0	1	6.16E-01
5.06E-01	-0.015820585	2	6.93E-01
4.53E-01	-0.286773527	5	2.36E+00
1.34E+00	-0.138290475	8	2.17E+00
8.38E-01	-0.190658225	5	1.68E+00
1.49E+00	0.157381166	4	4.88E-01
1.80E+00	-0.384748883	8	7.23E+00
2.58E+00	-0.108449829	11	2.79E+00
4.46E-01	0	1	6.16E-01
1.33E+00	-0.151339679	11	3.65E+00
3.81E+00	-0.004316166	6	9.51E-01
3.54E+01	-0.011497027	6	9.78E-01
5.41E+01	-0.185038268	13	6.29E+00
3.22E-01	-0.08699571	6	1.32E+00
2.64E+00	-0.707025497	15	5.88E+02
3.31E+00	-0.303011211	6	3.12E+00
5.55E+00	-0.643873812	10	5.42E+01
4.60E-01	-0.043167829	5	1.00E+00
8.70E-01	0.421683713	3	2.41E-01
4.71E+02	-1	11	2.81E+03
7.84E+04	-1	11	1.63E+03
6.12E+00	-0.482888408	8	1.17E+01
8.00E+01	-0.962301966	5	2.55E+01
4.00E-01	0.156563029	4	4.89E-01
1.97E+00	-0.736065085	5	1.15E+01
8.69E+00	0.724519188	8	3.21E-02
7.75E-02	1	8	7.05E-03
2.69E+00	-0.009556567	8	1.16E+00
5.40E+04	-0.907034176	13	1.10E+03
9.68E+04	-2	11	1.91E+04
1.35E+01	-0.602261787	7	1.46E+01
9.66E+00	-0.379986574	6	4.24E+00
8.22E-01	-0.158011356	5	1.50E+00
4.19E-01	-0.649751385	5	8.49E+00
2.20E+00	0.060801896	6	7.34E-01
7.26E-01	0.406263567	2	2.78E-01
4.68E-01	0.068541699	4	6.41E-01
7.10E+00	0.045898117	8	8.83E-01

1.21E+00	0	3	7.28E-01
1.22E+01	0	7	1.02E+00
5.06E-01	0	2	6.69E-01
1.50E+00	0	5	8.60E-01
4.38E-01	0	1	6.16E-01
2.88E-01	0.241703446	7	3.48E-01
4.94E+01	-0.238855846	10	5.20E+00
6.10E+03	-1	9	4.31E+02
1.25E+05	-0.707934206	22	1.00E+04
1.05E+07	-1	14	1.90E+04
3.46E+01	-1	9	6.06E+02
2.14E+02	-0.722739123	8	3.76E+01
2.35E+01	-0.200145148	9	3.49E+00
3.93E-01	0	6	9.35E-01
4.49E-01	-0.015570453	1	6.32E-01
2.82E+02	-0.376639487	10	1.15E+01
3.45E+00	-0.02027224	3	7.67E-01
4.38E-01	-0.257395919	1	9.57E-01
4.11E-01	0	4	7.91E-01
3.77E-01	0	13	1.68E+00
4.71E-01	0	3	7.28E-01
5.40E-01	0	6	9.35E-01
9.24E-01	-0.004360017	3	7.36E-01
4.02E-01	0	5	8.60E-01
3.68E-01	0	9	1.20E+00
3.60E-01	0	10	1.31E+00
3.76E-01	0	8	1.10E+00
2.78E-01	0	22	3.56E+00
3.03E-01	0	18	2.55E+00
3.23E-01	0	15	1.98E+00
2.55E-01	0	26	4.97E+00
3.76E-01	0	8	1.10E+00
3.68E-01	0	9	1.20E+00
4.11E-01	0	4	7.91E-01
4.20E-01	0	3	7.28E-01
4.02E-01	0	5	8.60E-01
4.11E-01	0	4	7.91E-01
3.76E-01	0	8	1.10E+00
4.02E-01	0	5	8.60E-01
3.93E-01	0	6	9.35E-01
3.93E-01	0	6	9.35E-01
4.02E-01	0	5	8.60E-01
3.85E-01	0	7	1.02E+00
3.93E-01	0	6	9.35E-01
4.11E-01	0	4	7.91E-01
4.02E-01	0	5	8.60E-01
3.76E-01	0	8	1.10E+00

4.02E-01	0	5	8.60E-01
3.68E-01	0	9	1.20E+00
3.45E-01	0	12	1.54E+00
3.76E-01	0	8	1.10E+00
2.78E-01	0	22	3.56E+00
3.03E-01	0	18	2.55E+00
3.23E-01	0	15	1.98E+00
2.55E-01	0	26	4.97E+00
3.76E-01	0	8	1.10E+00
3.68E-01	0	9	1.20E+00
4.11E-01	0	4	7.91E-01
4.20E-01	0	3	7.28E-01
4.02E-01	0	5	8.60E-01
4.11E-01	0	4	7.91E-01
3.76E-01	0	8	1.10E+00
4.02E-01	0	5	8.60E-01
3.93E-01	0	6	9.35E-01
3.93E-01	0	6	9.35E-01
4.02E-01	0	5	8.60E-01
3.85E-01	0	7	1.02E+00
3.93E-01	0	6	9.35E-01
4.11E-01	0	4	7.91E-01
4.02E-01	0	5	8.60E-01
1.57E+00	0.083618321	10	8.05E-01
2.00E+01	-0.01000004	9	1.27E+00
9.74E+01	-0.696911667	11	1.10E+02
4.94E+00	0.261001785	9	2.98E-01
4.55E-01	-0.02885969	1	6.47E-01
4.20E-01	-0.002538584	3	7.32E-01
4.29E-01	0	2	6.69E-01
6.11E-01	-0.020096256	7	1.11E+00
2.83E+00	-0.231713397	8	3.42E+00
3.10E+02	-0.77756583	12	2.81E+02
3.54E-01	0.610349479	5	1.00E-01
8.00E-03	0.614931632	24	2.43E-03
6.90E-01	0.124286885	5	5.55E-01
2.09E+01	-0.815052736	6	2.39E+01
1.80E+00	-0.206439329	10	4.31E+00
4.22E+02	-0.39474279	17	8.04E+01
3.03E-01	0	18	2.55E+00
9.23E+00	-0.184398627	5	1.65E+00
9.85E-01	0.07982306	19	1.26E+00
3.09E-02	-0.254166177	22	6.16E+01
1.18E+01	-0.103549511	27	2.18E+01
7.26E-01	0.243172959	5	3.65E-01
3.65E+00	0.087676808	15	9.79E-01
5.36E-07	0.690634202	50	2.50E-06

3.37E-01	0.44490743	3	2.27E-01
1.57E-02	0.34404479	15	1.24E-01
6.00E-01	0.097945886	10	7.41E-01
1.82E-02	0.15822977	28	6.47E-01
1.05E+01	-0.549596378	15	1.66E+02
1.42E+02	-1	11	1.05E+04
3.15E+00	-0.422630399	7	6.61E+00
1.04E+01	-0.567862725	6	8.94E+00
6.92E-01	0.163199163	4	4.79E-01
4.34E-01	-0.025680199	3	7.78E-01
1.07E+03	-0.612687911	9	3.15E+01
1.53E+00	-0.023104629	4	8.49E-01
3.05E-01	-0.143006858	3	1.06E+00
9.43E-01	-0.369712919	4	2.46E+00
4.50E-01	-0.037190819	4	8.87E-01
4.44E-01	-0.007396429	1	6.23E-01
4.19E+01	-0.455650873	10	1.82E+01
1.29E+00	-0.335964934	5	2.81E+00
2.71E+00	-0.118357967	6	1.50E+00
6.92E+00	-0.113728674	4	1.12E+00
1.32E+01	-0.058724302	5	1.06E+00
2.84E+01	-2	10	1.24E+04
1.56E+01	-0.048126669	9	1.55E+00
1.18E+03	-0.949341811	12	8.87E+02
4.30E-01	-0.102771702	2	8.36E-01
1.29E+00	-0.134165186	5	1.38E+00
4.36E-01	0	2	6.69E-01
2.19E+00	-0.448139015	2	1.77E+00
1.57E+66	-2	131	8.51E+62
2.80E+04	-3	4	1.05E+04
2.28E+01	-0.062432684	4	9.58E-01
9.91E-01	-0.260329543	2	1.18E+00
4.19E-01	-0.00470987	4	8.02E-01
6.40E-01	-0.060797813	4	9.53E-01
6.28E-01	0	5	8.60E-01
4.08E-01	-0.035490339	7	1.19E+00
1.74E+00	-0.320376035	6	3.34E+00
6.74E+00	-0.484879271	8	1.18E+01
7.91E-01	-0.128858671	6	1.56E+00
2.60E+00	-0.473322867	5	4.56E+00
9.24E-01	-0.055666424	5	1.05E+00
3.49E+01	-0.497618194	12	4.31E+01
2.57E+02	-1	7	9.89E+01
6.60E+04	-1	12	3.40E+03
9.19E+01	-0.899205248	5	2.04E+01
5.54E+01	-0.251000885	6	2.54E+00
1.02E+01	-0.592746171	7	1.40E+01

6.23E-01	-0.072859097	5	1.11E+00
7.67E-01	-0.191725048	5	1.69E+00
4.48E-01	-0.020543765	2	7.00E-01
6.36E+00	-0.371151275	10	1.12E+01
2.28E-02	0.285117883	11	2.40E-01
5.83E-01	-0.056598228	4	9.41E-01
4.16E+03	-0.387174697	15	4.48E+01
4.64E-01	-0.009697677	4	8.15E-01
3.64E-01	-0.079303987	4	1.01E+00
4.44E-01	0	1	6.16E-01
3.80E+00	-0.496364227	7	9.16E+00
8.71E+00	-0.586551464	9	2.74E+01
6.65E-01	-0.586625903	4	4.79E+00
1.68E+00	-0.172704922	8	2.57E+00
1.79E+01	-0.359942872	13	2.20E+01
2.99E-01	-0.241964242	6	2.45E+00
6.96E-01	0	3	7.28E-01
4.56E-01	-0.314243904	7	4.09E+00
3.14E+00	-0.165768768	13	5.48E+00
4.01E+00	-0.257667455	4	1.74E+00
8.18E+00	-0.126687918	7	1.78E+00
2.57E-01	-0.018653108	3	7.64E-01
9.89E-01	-0.002624277	5	8.68E-01
7.57E-01	0.069821844	8	7.86E-01
4.11E-01	-0.083274805	4	1.02E+00
4.43E-01	0	2	6.69E-01
1.14E+00	-0.592371148	4	4.88E+00
5.08E-01	-0.01833089	2	6.96E-01
5.11E-01	-0.026644129	4	8.58E-01
7.96E+00	-0.128647299	10	2.75E+00
4.50E-01	-0.005514663	1	6.21E-01
4.38E-01	-0.102069145	2	8.35E-01
7.05E-01	0	4	7.91E-01
5.53E-01	0	5	8.60E-01
1.94E+00	-0.47977852	5	4.66E+00
4.43E-01	-0.005983024	1	6.22E-01
4.31E-01	-0.010578463	3	7.48E-01
8.17E+01	-0.472662734	7	8.24E+00
4.29E-01	0	2	6.69E-01
4.20E-01	0	3	7.28E-01
6.66E-01	0	3	7.28E-01
7.46E-01	-0.005908133	3	7.39E-01
5.07E-01	-0.012710619	3	7.52E-01
4.82E-01	-0.021924304	2	7.02E-01
1.06E+00	-0.026065244	5	9.43E-01
9.36E+00	-0.175176168	4	1.35E+00
9.64E+00	-0.183755556	8	2.71E+00

8.69E-01	-0.063618128	5	1.08E+00
7.86E+00	-0.146842808	8	2.26E+00
9.35E-01	-0.043926609	4	9.05E-01
7.74E+00	0.088993267	10	7.80E-01
4.02E-01	-0.154368853	5	1.48E+00
8.13E+00	-0.048104989	9	1.55E+00
5.11E-01	0	2	6.69E-01
4.33E-01	0	2	6.69E-01
7.23E-01	0	4	7.91E-01
4.64E-01	0	6	9.35E-01
4.66E-01	0	4	7.91E-01
1.73E+00	-0.263330969	7	3.26E+00
4.81E+01	-0.931208126	7	6.28E+01
9.83E-01	-0.030606028	3	7.88E-01
2.63E+00	-0.772072241	7	3.11E+01
5.43E-01	-0.011510546	3	7.50E-01
9.84E-01	0.156587773	5	4.95E-01
1.24E+00	0.333863696	5	2.65E-01
1.29E+00	-0.423876954	8	8.75E+00
9.97E-01	-0.495472949	6	6.70E+00
5.76E-01	0	3	7.28E-01
4.16E-01	-0.163284564	5	1.53E+00
3.32E+01	-0.086797825	6	1.32E+00
2.79E+00	-0.244960981	12	7.95E+00
3.85E+00	-0.161211313	12	4.54E+00
4.74E-01	0.079076575	5	6.51E-01
7.09E-01	-0.257916438	7	3.18E+00
6.96E-01	-0.027906944	1	6.46E-01
1.34E+00	-0.203279639	5	1.76E+00
1.36E+01	-0.248092288	18	2.63E+01
3.37E+00	-0.38795947	8	7.34E+00
5.35E+00	-0.010259818	6	9.74E-01
7.36E-01	-0.05361079	2	7.52E-01
6.34E+01	-0.98763033	7	8.07E+01
5.20E-01	0	5	8.60E-01
5.82E-01	-0.049423852	5	1.02E+00
4.02E-01	-0.004691868	5	8.74E-01
4.49E-01	-0.004036507	2	6.75E-01
1.44E+00	-0.270910501	2	1.20E+00
1.70E+01	-0.228636953	2	1.10E+00
7.24E-01	-0.502514879	1	1.46E+00
1.51E+00	-0.107278751	2	8.44E-01
1.93E+00	-0.475747316	1	1.39E+00
1.97E+00	-0.27110545	4	1.82E+00
1.50E+01	-0.948409982	8	1.13E+02
2.22E+05	-2	12	7.20E+04
4.22E-01	-0.091028696	4	1.05E+00

4.00E-01	-0.010187527	3	7.47E-01
4.29E-01	-0.008176275	2	6.81E-01
1.18E+00	0.037520148	6	8.05E-01
4.80E-01	0.026490819	1	5.88E-01
2.61E+00	-0.287486108	8	4.50E+00
6.41E-01	-0.108279731	27	2.33E+01
4.20E+00	-0.352641628	5	2.98E+00
6.74E-01	-0.03968076	2	7.29E-01
2.15E+01	-0.333256663	9	7.11E+00
4.92E-01	0	2	6.69E-01
9.34E+01	-0.464074251	14	6.20E+01
1.19E+01	-0.742412359	8	4.14E+01
9.11E-01	-0.149343821	4	1.25E+00
5.14E+01	-0.559049906	7	1.21E+01
2.48E+03	-0.750705121	9	6.59E+01
9.29E-01	-0.329307771	3	1.72E+00
5.05E+02	-1	6	1.05E+02
4.38E-01	0	1	6.16E-01
4.38E-01	0	1	6.16E-01
1.33E+00	-0.188307641	4	1.41E+00
6.95E+01	-0.579543098	10	3.74E+01
5.74E-01	-0.211333488	1	8.84E-01
6.80E+00	-1	3	1.07E+01
9.19E+07	-2	11	2.85E+05
8.51E+01	-3	1	1.42E+02
9.40E+02	-3	3	6.15E+02
3.42E+00	0.567555038	10	4.89E-02
8.17E+01	-2	3	6.64E+01
6.95E-01	-0.059243339	2	7.61E-01
7.14E+01	-0.371679396	6	4.10E+00
1.69E+04	-3	5	2.34E+04
1.59E+00	-0.402918477	2	1.60E+00
7.04E+02	-2	6	1.75E+03
2.64E+00	-0.22189175	4	1.56E+00
1.39E+01	-0.265456315	9	4.95E+00
4.03E-02	0.73099088	4	8.38E-02
1.51E-03	1	12	2.28E-04
5.58E-01	1	8	1.18E-03
6.21E+00	-0.375251361	5	3.23E+00
5.85E+00	-0.925664585	4	1.36E+01
1.26E+00	-0.600730015	2	2.46E+00
1.03E+02	-2	2	3.64E+01
3.08E+01	-0.368452579	11	1.41E+01
4.61E-01	-0.010398952	1	6.27E-01
1.43E+04	-1	16	3.65E+04
2.95E+01	-2	2	2.51E+01
2.65E+08	-3	13	1.48E+08

2.40E+03	-3	4	2.33E+04
3.44E+00	0.009150012	7	9.76E-01
2.93E+00	-0.869861165	3	7.09E+00
9.29E+00	0.094401686	5	6.17E-01
1.81E-02	1	5	5.01E-03
2.87E-03	2	4	2.20E-03
9.62E+00	-0.391022368	12	2.11E+01
3.07E+00	-0.112175731	15	4.89E+00
7.57E-01	-0.086348643	1	7.14E-01
1.33E+00	0.195548507	5	4.32E-01
1.17E+00	-0.132684438	4	1.19E+00
1.29E-01	-0.131209776	4	1.18E+00
3.26E+01	-0.79846542	3	5.88E+00
9.08E+02	-2	3	2.26E+02
1.80E+02	-1	3	2.28E+01
1.95E-02	0.910330108	3	6.71E-02
3.66E-06	2	13	8.21E-07
6.26E+00	-0.050330627	12	2.16E+00
6.58E+02	-0.666049027	18	1.34E+03
2.35E+00	-0.621272331	8	2.29E+01
1.02E+02	-0.341903916	7	4.62E+00
6.00E-01	-0.11763982	6	1.49E+00
6.50E-01	0.370187427	2	3.00E-01
2.47E+01	-0.934360751	6	3.84E+01
1.64E+03	-0.67922982	19	2.25E+03
1.79E+00	-0.529248283	7	1.06E+01
2.80E+00	-0.38283074	7	5.54E+00
5.87E+02	-2	7	1.81E+03
4.80E-01	-0.295352105	2	1.27E+00
4.73E-01	-0.193736188	9	3.38E+00
4.45E-01	0	2	6.69E-01
5.66E-01	-0.007740122	5	8.84E-01
3.97E-01	-0.182937831	6	1.93E+00
7.26E-01	0.186697494	4	4.46E-01
4.42E-01	-0.097220385	3	9.38E-01
1.26E+00	-0.154572153	5	1.48E+00
5.29E-01	-0.168007235	7	2.14E+00
3.76E+00	-0.152838728	10	3.16E+00
1.07E+02	-0.706498333	5	1.04E+01
5.77E+00	-0.006500323	11	1.48E+00
2.82E+00	-0.285024132	3	1.53E+00
2.59E+02	-0.475141845	7	8.34E+00
6.30E+01	-0.652486217	7	1.83E+01
1.25E+01	-0.997627843	10	4.20E+02
2.04E+00	-0.66604538	4	6.11E+00
4.44E-01	-0.013948663	2	6.90E-01
2.41E+00	-0.16103354	8	2.42E+00

1.19E+00	-0.243692216	4	1.67E+00
7.72E-01	-0.113917415	8	1.93E+00
6.81E-01	-0.530930199	7	1.07E+01
2.66E-01	-0.082609919	4	1.02E+00
1.68E+00	0.188150682	6	4.42E-01
1.65E+01	-0.586336254	6	9.62E+00
6.38E+00	-0.399365028	7	5.96E+00
5.22E-01	-0.009916624	3	7.47E-01
5.97E-01	-0.156985756	3	1.10E+00
6.13E-01	-0.157116651	5	1.50E+00
6.50E-01	-0.030620106	2	7.15E-01
5.33E-01	-0.04514606	3	8.19E-01
1.28E+00	-0.17753575	3	1.16E+00
1.92E+01	-0.991311653	4	1.66E+01
8.34E+00	-0.504321512	4	3.72E+00
4.46E-01	-0.022368573	1	6.40E-01
4.38E-01	0	1	6.16E-01
8.40E+00	-0.070769488	4	9.83E-01
4.69E-01	-0.312712902	4	2.07E+00
8.30E-12	1	44	5.93E-11
2.79E-03	0.959024466	4	4.16E-02
2.24E-01	0.272669204	9	2.80E-01
1.25E+01	0.114362451	9	6.52E-01
1.50E+00	-0.659655394	10	5.94E+01
6.05E+00	-0.282535058	8	4.39E+00
4.16E-01	-0.003363349	5	8.70E-01
1.22E+00	-0.054660924	5	1.04E+00
2.02E+00	-0.302640776	9	6.03E+00
3.07E+03	-0.795859687	15	1.20E+03
2.47E-01	0	4	7.91E-01
5.12E+00	-0.100572873	9	2.05E+00
4.20E-01	0	3	7.28E-01
5.58E-01	-0.079549223	2	7.95E-01
7.12E+00	-0.792402478	10	1.28E+02
7.02E+01	-0.9692884	7	7.44E+01
7.45E+00	-0.282443099	10	6.69E+00
1.14E+00	-0.01869835	4	8.38E-01
8.63E+00	-0.40790803	14	4.05E+01
4.51E+02	-1	13	2.42E+03
1.15E+00	-0.17217442	7	2.18E+00
2.07E+00	-0.742781902	5	1.18E+01
1.29E+02	-0.786602699	11	1.92E+02
5.43E+00	0.126412446	18	7.75E-01
8.91E-02	0.147435742	5	5.11E-01
1.27E+01	0.289612172	52	3.31E-02
6.73E-08	0.917792098	31	6.04E-06
3.10E-05	2	9	7.34E-05

4.98E-01	0	4	7.91E-01
5.19E-01	0.150698713	31	7.52E-01
6.27E-02	-0.094502066	17	5.46E+00
3.50E-04	0.314073075	31	6.18E-02
9.60E+02	0.34519014	10	1.77E-01
3.15E+05	-0.986332383	32	4.57E+07
4.73E-01	-0.270044368	3	1.48E+00
2.45E+01	-0.668066044	8	2.88E+01
1.72E+02	-1	8	6.89E+02
4.08E+02	-0.034859121	15	2.62E+00
6.69E+03	0.043025216	11	1.09E+00
7.22E+02	-0.516821846	23	1.61E+03
1.98E+05	-1	20	2.78E+05
6.69E+03	-1	10	1.33E+03
1.52E+01	-0.370302533	11	1.43E+01
1.36E+03	-2	9	8.83E+03
9.45E-01	-0.346969197	3	1.80E+00
1.75E+00	-0.129041878	7	1.80E+00
2.79E+00	-0.265931127	4	1.79E+00
2.49E+02	-0.544880179	6	8.16E+00
5.77E-07	0.530090602	30	2.66E-03
2.40E-06	1	6	1.04E-02
7.60E+01	-0.504196137	10	2.42E+01
1.27E+01	-0.671897857	10	6.38E+01
6.70E+00	-0.423541172	5	3.82E+00
5.06E-01	-0.15220218	3	1.08E+00
3.02E+00	-0.449954991	4	3.15E+00
6.09E-01	0	3	7.28E-01
1.25E+01	-0.763273587	5	1.27E+01
8.52E-01	-0.63171382	8	2.41E+01
4.01E+00	-0.331228452	8	5.57E+00
6.29E-01	-0.07522822	12	2.55E+00
1.46E+00	-0.161074586	5	1.52E+00
2.17E+01	-1	6	1.35E+02
3.44E+01	-0.725726301	8	3.82E+01
2.43E-01	-0.267395499	5	2.21E+00
4.82E+00	-0.076178491	8	1.60E+00
1.81E+00	-0.157136931	5	1.50E+00
5.33E-01	-0.189800002	4	1.42E+00
8.34E+00	-0.707380392	7	2.33E+01
8.74E+00	0.006173188	7	9.89E-01
1.65E+00	-0.669506176	7	1.97E+01
4.89E-01	0	4	7.91E-01
3.49E+00	-0.393447102	7	5.80E+00
2.70E+00	0	6	9.35E-01
4.20E-01	0	3	7.28E-01
7.77E+00	-0.31717517	5	2.63E+00

5.48E+00	-0.447228144	10	1.74E+01
2.46E+00	0	7	1.02E+00
6.59E+00	-0.226391007	9	4.02E+00
5.24E+01	-0.000488094	8	1.11E+00
1.72E+00	0	9	1.20E+00
4.19E+02	-0.654517509	7	1.84E+01
6.21E+02	-1	11	1.08E+03
6.26E+02	-0.637772187	10	5.23E+01
1.97E+00	-0.013078167	7	1.08E+00
6.13E-01	-0.137176281	9	2.50E+00
1.64E+00	-0.295563443	8	4.68E+00
1.82E+02	-0.155938849	13	5.11E+00
4.29E-01	0	2	6.69E-01
4.40E-01	0	2	6.69E-01
1.03E+00	0.068200738	2	5.77E-01
1.05E+00	-1	2	9.18E+00
1.66E+01	-0.001199982	6	9.39E-01
1.66E+01	0.609991334	2	1.79E-01
1.83E+00	-0.283354447	1	1.00E+00
1.89E+00	-0.257395919	3	1.43E+00
2.28E+01	-0.71257442	10	8.07E+01
2.07E+00	-0.496703072	5	4.95E+00
4.25E-01	-0.004988422	3	7.37E-01
2.01E-01	0	3	7.28E-01
1.13E+00	-0.009932928	3	7.47E-01
2.41E+00	-0.195809411	6	2.04E+00
1.78E+00	-0.064804812	3	8.62E-01
1.31E+00	0	4	7.91E-01
3.73E-01	-0.127482759	4	1.17E+00
4.07E+00	-0.90496281	7	5.59E+01
6.92E-01	-0.38475644	5	3.34E+00
9.71E+00	-0.283538559	8	4.41E+00
2.96E+01	-0.643508849	6	1.21E+01
1.14E+01	0.486592144	8	1.03E-01
1.82E+00	-0.170188088	7	2.16E+00
8.29E+01	-0.212246111	8	3.11E+00
7.30E+02	-1	7	1.31E+02
1.96E+03	-0.428284149	7	6.77E+00
7.99E-01	-0.040032755	3	8.08E-01
4.20E-01	0.018770393	2	6.43E-01
4.03E+02	-0.902823259	12	6.50E+02
9.70E-01	-0.090632439	3	9.22E-01
6.93E-01	-0.116920122	4	1.13E+00
1.15E+01	-0.10203628	18	6.65E+00
1.49E+01	-0.347436802	8	6.02E+00
5.74E+03	-0.900335535	9	1.46E+02
9.36E-01	-0.145173271	3	1.06E+00

4.40E-01	0	3	7.28E-01
2.25E-01	0.076916951	4	6.25E-01
1.02E+01	-0.64448328	6	1.21E+01
2.03E+00	-0.241268659	7	2.96E+00
2.25E+01	-0.808686409	6	2.33E+01
5.85E-01	-0.210512636	4	1.51E+00
4.20E-01	0	3	7.28E-01
5.17E-01	0	3	7.28E-01
3.75E+01	-1	3	1.00E+01
8.67E+00	-0.70994569	5	1.05E+01
3.70E+00	-0.340426098	10	9.36E+00
2.29E+01	-0.461652641	22	6.32E+02
6.94E-01	0.208500638	10	3.91E-01
3.75E-01	0.598296406	20	6.28E-03
9.59E-01	0.100907512	3	5.59E-01
7.22E-01	0.50468896	4	1.68E-01
4.61E-01	0.324152256	8	2.27E-01
1.80E+00	0.04234954	12	1.16E+00
7.06E-01	-0.039429313	13	2.22E+00
4.32E+01	-0.38876614	23	3.62E+02
1.31E-03	0.674415133	40	3.39E-05
5.61E-02	1	19	8.64E-05
3.47E-01	0.366415838	8	1.85E-01
1.19E+00	0.283759582	12	2.31E-01
1.82E-01	0.212857597	13	3.66E-01
2.41E-01	0.530667122	1	2.48E-01
3.09E-06	2	6	1.55E-04
4.03E-14	3	13	7.24E-11
1.51E-01	0.260924645	2	3.80E-01
6.69E-02	0.075233949	9	8.04E-01
1.58E+00	-0.305898105	6	3.15E+00
4.20E-01	-0.002572577	5	8.68E-01
8.56E-01	-0.167486784	4	1.32E+00
8.87E+00	-0.405614376	9	1.05E+01
7.03E-01	-0.12363285	3	1.01E+00
5.13E-01	-0.000881802	4	7.93E-01
4.36E+00	-0.608412773	10	4.42E+01
8.05E-01	0	4	7.91E-01
5.35E-01	-0.0214875	7	1.12E+00
5.96E+02	-2	6	7.90E+02
1.27E+00	-0.101078333	3	9.48E-01
3.96E-01	-0.270586981	8	4.14E+00
2.75E+03	-0.906341128	9	1.51E+02
8.74E+00	-0.672176686	6	1.35E+01
7.39E-01	-0.00560807	9	1.24E+00
6.71E+00	-0.453735754	8	1.01E+01
9.84E-01	-0.125811508	3	1.01E+00

2.97E+00	-0.158535243	8	2.40E+00
1.76E+04	-2	8	6.09E+03
5.78E+00	-0.324153061	12	1.35E+01
2.17E-01	0.14047881	8	5.56E-01
2.11E-01	0.02322965	10	1.14E+00
5.64E-01	0.194934484	13	4.17E-01
8.23E-01	-0.333181456	4	2.20E+00
3.67E+08	-1	21	1.87E+07
1.07E+02	-0.571296254	36	2.60E+05
1.14E+00	-0.39192327	3	2.03E+00
1.21E+01	-0.783574527	4	8.77E+00
1.21E+00	0.1002685	7	6.52E-01
3.30E-02	0.400064622	20	4.86E-02
9.20E-01	0.65573294	3	1.31E-01
2.68E+00	-0.178691463	5	1.61E+00
4.63E-01	-0.223619228	3	1.31E+00
1.65E+00	-0.356820992	2	1.45E+00
5.03E+02	-1	12	1.94E+04
4.20E-01	0	3	7.28E-01
3.72E+00	-0.33687248	4	2.23E+00
4.02E-01	-0.147051437	5	1.44E+00
3.10E+00	-0.173825882	8	2.58E+00
4.28E-01	0	3	7.28E-01
1.24E+01	-0.282213431	8	4.38E+00
7.25E-01	-0.133340932	3	1.03E+00
5.12E-01	-0.032776146	1	6.51E-01
6.45E-01	-0.040391141	8	1.35E+00
5.14E-01	-0.077018136	3	8.90E-01
4.38E-01	0	1	6.16E-01
1.08E+00	-0.09376992	2	8.20E-01
2.24E+00	-0.017841216	2	6.96E-01
5.29E+01	-0.420460338	4	2.88E+00
1.60E+00	-0.204841777	3	1.24E+00
6.88E-01	0	1	6.16E-01
1.56E+00	0	3	7.28E-01
4.29E-01	0	2	6.69E-01
6.67E-01	-0.036554084	3	8.01E-01
9.54E+01	-0.549243925	15	1.65E+02
4.38E-01	-0.013356365	1	6.30E-01
2.79E-01	0.212523678	12	3.72E-01
4.61E+00	0.224097905	17	3.15E-01
1.91E+05	-0.860843038	28	9.54E+05
4.02E-01	-0.078315468	5	1.13E+00
9.80E-01	-0.076527241	7	1.43E+00
4.10E-01	0	4	7.91E-01
9.86E-30	2	43	8.97E-22
2.43E-01	0.072188188	13	1.00E+00

4.12E-16	0.931153284	104	9.41E-17
3.29E+00	0.341378638	2	3.20E-01
4.43E-01	-0.005983024	1	6.22E-01
4.33E-01	-0.004816299	2	6.76E-01
1.17E+00	0.032314602	24	2.84E+00
8.18E-04	0.623951327	35	2.44E-04
4.11E-01	0.059697665	3	6.22E-01
2.47E+02	0.245096842	53	9.71E-02
4.86E-01	-0.090888158	4	1.05E+00
2.19E-01	0.273530136	29	1.25E-01
1.10E+00	0.811476631	9	1.58E-02
1.48E-01	0.168907337	24	5.42E-01
7.31E+01	-0.578930618	21	1.67E+03
2.78E-03	0.945580682	12	2.75E-03
1.60E-01	1	2	2.74E-02
4.26E-01	0.026231122	2	6.32E-01
2.12E+01	-0.307304881	9	6.19E+00
5.15E+00	-0.219797452	3	1.29E+00
5.05E+00	-0.64713473	2	2.72E+00
4.62E-01	-0.001463724	7	1.02E+00
9.75E-02	-0.151471137	9	2.69E+00
8.11E+00	-0.346965256	5	2.92E+00
2.77E+01	-0.509246513	7	9.69E+00
1.21E+00	-0.024602918	3	7.76E-01
1.59E+00	-0.170911453	2	9.69E-01
2.88E+03	-0.993206366	14	3.46E+03
3.26E-01	-0.279116592	6	2.84E+00
4.35E+00	0.032206512	7	8.81E-01
2.06E+00	-0.078666585	13	2.94E+00
6.20E-02	-0.194207798	8	2.85E+00
1.34E+02	-0.483598733	17	1.78E+02
3.63E+00	-0.054332934	11	1.99E+00
3.85E-01	0	11	1.42E+00
3.10E-01	1	10	4.86E-04
9.37E-02	2	6	9.23E-04
1.44E-04	1	12	2.76E-04
5.60E-08	2	21	1.23E-08
6.19E-01	-0.200031453	11	4.94E+00
2.24E+01	-0.483695456	8	1.17E+01
2.17E+03	-0.518098015	11	3.60E+01
1.07E+00	-0.420308098	16	7.69E+01
1.31E+01	-0.290085904	6	2.96E+00
7.24E+04	-0.322055558	18	5.27E+01
5.15E+00	-0.029539484	7	1.16E+00
4.05E-01	0	5	8.60E-01
5.38E-01	-0.194708944	5	1.71E+00
4.29E-01	0	2	6.69E-01

9.51E-01	0.104067693	9	6.89E-01
2.07E-01	-0.019014171	3	7.65E-01
9.31E-01	-0.038460146	2	7.27E-01
5.27E-01	0	3	7.28E-01
4.16E-01	-0.001214759	5	8.63E-01
4.43E-01	-0.028919412	2	7.12E-01
2.76E+00	-0.564976776	6	8.84E+00
1.65E+00	-0.366869394	4	2.44E+00
9.23E+03	-2	11	4.43E+04
1.49E+02	-0.994073223	5	2.85E+01
3.24E+00	0.112463409	17	8.56E-01
1.46E+00	-0.002595632	17	2.40E+00
4.33E+01	-0.713480213	21	7.10E+03
9.57E-01	0.647616103	16	8.74E-03
7.03E-01	0.116789746	27	1.12E+00
1.25E+00	0.012995211	10	1.21E+00
2.36E+01	-0.24644933	18	2.59E+01
1.30E+00	-0.026648067	2	7.09E-01
3.27E-01	0.535796845	3	1.79E-01
4.41E-01	0.000472286	2	6.69E-01
4.70E-01	-0.00703039	15	2.10E+00
1.33E+03	-0.428565562	13	3.59E+01
1.31E+04	-0.581852054	20	1.22E+03
2.33E-01	0.562755204	19	1.08E-02
1.76E-01	-0.257869322	10	5.81E+00
2.14E+01	-0.802337553	6	2.27E+01
3.13E+02	-0.870738892	12	5.24E+02
1.01E+00	-0.670679674	3	4.21E+00
1.47E+00	-0.973953084	7	7.59E+01
8.74E+01	-0.76700132	5	1.28E+01
7.13E-01	-0.418499884	2	1.66E+00
1.27E+04	-2	14	3.67E+06
2.41E+01	0.264860407	6	3.26E-01
3.55E+02	-0.884918659	13	9.35E+02
1.89E+03	-0.84365246	14	1.11E+03
3.37E+03	-0.881977316	12	5.65E+02
1.65E+05	-0.904453541	12	6.57E+02
2.28E+01	-0.466802342	10	1.95E+01
4.01E+02	-0.910880031	11	4.17E+02
5.48E-03	0.689784007	17	4.86E-03
2.89E-02	1	3	1.45E-02
8.27E-01	0.368063694	7	1.99E-01
9.72E-01	-0.257395919	1	9.57E-01
4.58E-01	-0.027906944	1	6.46E-01
2.62E+01	-0.468307958	5	4.48E+00
3.88E+00	-0.354730962	3	1.84E+00
6.85E-01	-0.546656878	5	5.90E+00

4.41E-01	-0.022371119	2	7.02E-01
5.28E-01	-0.005124845	3	7.37E-01
1.32E+00	-0.12011229	5	1.31E+00
9.74E+01	-0.883357338	5	1.93E+01
9.14E+02	-0.749707486	18	2.95E+03
1.77E+00	-0.092236706	3	9.26E-01
1.13E+00	-0.207764144	3	1.25E+00
2.55E+01	-0.622356103	7	1.60E+01
3.64E-01	-0.211068672	5	1.81E+00
2.89E-07	1	27	1.53E-07
5.08E-01	-0.016977652	1	6.34E-01
9.60E+00	-0.320873382	4	2.12E+00
1.19E+04	-0.627948614	13	1.49E+02
4.54E-01	-0.227511539	2	1.10E+00
2.30E+02	-0.379309016	4	2.54E+00
5.70E-01	0	3	7.28E-01
1.14E+06	-1	15	3.85E+04
1.56E+00	-0.121362293	8	2.00E+00
6.03E+02	-0.773722766	14	6.52E+02
6.38E+02	-0.854911864	7	4.48E+01
1.31E+02	-0.790771987	7	3.37E+01
1.49E+00	0.036612372	12	1.21E+00
2.68E+07	-1	17	4.17E+05
2.07E-02	1	6	1.05E-02
9.91E-01	-0.602596521	2	2.47E+00
5.51E+02	-0.76138966	5	1.26E+01
2.19E+00	-0.045343676	2	7.38E-01
5.04E-01	-0.01811924	3	7.63E-01
3.67E+03	-2	9	7.27E+03
4.90E+01	-0.542445783	12	5.82E+01
1.81E-03	1	12	1.44E-03
3.22E-02	2	1	3.16E-02
1.65E-01	0.370925265	2	3.00E-01
1.37E+02	-0.085521766	9	1.90E+00
1.79E-02	0.774679281	24	3.50E-04
5.28E+00	0.315050165	8	2.37E-01
1.20E+00	-0.067113343	4	9.72E-01
7.21E+02	-0.679184698	13	2.15E+02
3.58E+00	0.061235418	12	1.02E+00
4.29E-01	-0.299587381	3	1.59E+00
2.52E+01	-0.375921178	10	1.15E+01
1.17E+01	-0.39783208	9	1.00E+01
1.26E+01	-0.416994042	5	3.74E+00
4.15E-01	-0.000575428	5	8.62E-01
4.99E+00	-0.177360568	4	1.36E+00
4.20E-01	0	3	7.28E-01
7.63E-01	-0.134772541	8	2.13E+00

7.60E+00	-0.104192405	8	1.84E+00
5.17E-01	0.291961894	14	1.98E-01
2.03E+00	-0.057732952	22	6.80E+00
2.69E+00	0.586843908	11	3.64E-02
4.75E-01	0.428572556	5	1.90E-01
5.16E-01	0	8	1.10E+00
4.59E-01	-0.13229058	9	2.43E+00
1.35E+00	-0.299314542	6	3.07E+00
1.46E+00	-0.008854034	9	1.26E+00
7.20E-01	-0.272055019	1	9.81E-01
7.93E+01	-0.582004713	6	9.46E+00
5.80E-01	-0.014614145	4	8.27E-01
4.40E-01	-0.019680848	3	7.66E-01
1.67E+01	-1	3	1.45E+01
1.38E+02	-1	4	1.96E+01
1.14E+16	-0.62363128	108	1.80E+17
1.23E+02	-2	4	8.18E+01
4.72E-01	-0.064997536	2	7.70E-01
2.33E+02	-0.316526895	8	5.18E+00
3.51E+00	-0.434482642	6	5.26E+00
2.72E+00	-0.030987225	9	1.42E+00
4.61E+12	-0.868779544	65	4.90E+13
8.55E+00	-0.955883393	10	3.30E+02
1.76E-03	1	8	4.82E-03
2.27E-01	-0.001533266	24	4.28E+00
1.06E-02	0.562999274	27	2.72E-03
1.26E+02	-0.681210875	9	4.55E+01
2.50E+00	-0.636431112	5	8.10E+00
1.99E+01	-0.619628471	6	1.10E+01
4.77E-01	-0.034800141	1	6.53E-01
6.32E+01	-0.485874385	7	8.74E+00
4.20E-01	-0.001510038	3	7.30E-01
2.04E+00	-0.241856173	4	1.66E+00
1.27E+00	-0.385552307	6	4.33E+00
4.63E-01	-0.167418788	5	1.55E+00
4.89E+00	0.149614273	7	5.24E-01
5.46E+02	-0.391946637	5	3.42E+00
3.13E+00	0.289077599	8	2.69E-01
8.58E+01	1	8	1.88E-03
2.36E+01	0.262875383	11	2.75E-01
4.47E-01	0	2	6.69E-01
8.63E+05	0.347942828	42	1.63E-02
6.13E+00	-0.807085101	3	6.02E+00
3.72E+00	-0.849519141	3	6.73E+00
3.47E+00	-0.735358319	4	7.57E+00
4.70E+05	-0.846725147	21	2.98E+04
4.48E-01	-0.013110931	2	6.88E-01

5.27E+02	-0.271456223	16	2.17E+01
5.54E-01	0.010921641	3	7.07E-01
3.97E+00	-0.130896812	5	1.36E+00
8.38E-01	-0.35536972	5	3.01E+00
6.06E-01	-0.069355694	2	7.78E-01
3.92E-01	-0.416322196	7	6.42E+00
1.04E+00	-0.086920906	6	1.32E+00
2.00E+00	-0.573144582	3	3.26E+00
6.46E+00	-0.272125503	11	7.75E+00
4.30E-01	-0.06036154	4	9.52E-01
6.55E-01	-0.049970539	6	1.14E+00
3.19E+00	-0.440187194	12	2.94E+01
2.24E+04	-1	13	1.31E+04
5.77E+01	-0.308180466	11	9.71E+00
7.72E-06	3	6	3.93E-05
5.74E-07	1	11	1.81E-04
2.64E+00	-0.25746775	10	5.79E+00
4.02E+00	-0.396662375	4	2.67E+00
5.03E-02	0.807601932	8	2.14E-02
2.61E+00	-0.356905539	5	3.02E+00
4.27E+02	-0.298199152	13	1.41E+01
1.20E+01	-0.313062073	7	4.07E+00
7.89E-01	0.248432337	11	3.01E-01
7.78E+03	-0.735120138	18	2.57E+03
7.24E-09	3	10	6.06E-09
5.17E-01	0.342333105	12	1.56E-01
1.31E+01	-0.727244197	6	1.68E+01
1.86E+00	-0.233574499	4	1.62E+00
4.26E-01	-0.008028448	3	7.43E-01
1.08E+00	-0.172826009	8	2.57E+00
2.37E+01	-0.166796762	10	3.43E+00
1.31E+00	-0.310450187	4	2.05E+00
4.38E-01	0	3	7.28E-01
7.77E-01	-0.045297197	8	1.38E+00
2.81E+00	-0.210661284	7	2.58E+00
7.91E+06	-0.810296431	40	1.05E+08
9.49E-02	-0.109921156	5	1.27E+00
9.84E-07	0.696611952	21	1.81E-03
2.36E-02	2	16	6.11E-06
8.08E-01	0.513684195	13	4.27E-02
6.80E+03	-0.446655214	19	2.27E+02
4.44E+00	-0.221050146	9	3.91E+00
1.58E-01	-0.167864426	10	3.45E+00
7.34E-01	0.246500829	7	3.41E-01
2.95E+00	-0.157596696	6	1.75E+00
7.61E+04	-0.718735194	21	7.52E+03
1.30E+05	-1	10	6.59E+02

1.94E+05	-0.041782161	46	6.65E+01
1.12E+01	-0.259994315	8	3.93E+00
2.50E+01	-0.522750186	12	5.10E+01
1.21E-07	2	14	3.29E-07
1.06E-01	1	2	6.38E-02
7.56E+01	-0.206043796	20	2.52E+01
6.37E+00	0.881055813	3	7.25E-02
2.02E-01	2	5	4.11E-03
2.56E-02	1	6	4.98E-03
7.52E-01	2	4	4.01E-03
1.33E+03	-1	13	1.73E+04
8.57E+02	-1	13	3.09E+04
1.85E+03	-0.900096801	13	1.04E+03
1.14E+00	-0.51475813	3	2.80E+00
2.18E-03	2	5	3.30E-03
1.17E-04	2	8	9.28E-05
5.77E-06	4	5	3.77E-06
2.14E-03	1	18	4.28E-05
4.29E-01	0	2	6.69E-01
4.00E-01	0.00639637	6	9.11E-01
1.06E+02	-0.872033273	15	2.22E+03
9.84E+04	-1	16	5.27E+05
1.27E+01	-0.676382081	9	4.43E+01
5.27E+00	-0.564929464	6	8.84E+00
3.06E+00	-0.15538006	5	1.49E+00
4.16E+04	-0.5284176	21	9.68E+02
3.64E+04	0.125162917	20	8.28E-01
8.26E-01	0.378932604	12	1.22E-01
2.21E-01	0.662551578	5	8.33E-02
4.41E-01	0.352157532	7	2.14E-01
4.22E-01	0	3	7.28E-01
1.42E-01	0.807544866	5	5.00E-02
2.18E-08	3	12	6.40E-09
2.53E-02	1	12	1.48E-03
1.15E+00	-0.348000024	10	9.78E+00
7.71E+11	-1	30	2.40E+09
2.36E+04	-0.938655332	23	2.22E+05
4.93E-01	0	2	6.69E-01
1.30E+00	0.297630989	6	2.86E-01
8.67E+04	-0.601289638	21	2.12E+03
3.64E+00	-0.090802964	7	1.52E+00
5.08E-01	0	1	6.16E-01
8.11E-01	-0.694666969	1	2.02E+00
4.07E+01	-1	3	1.06E+01
7.46E+01	-0.517678123	5	5.33E+00
3.63E+05	-2	9	1.73E+05
3.57E+03	-1	9	7.93E+02

1.92E+00	-0.465357925	4	3.30E+00
8.22E-03	0.705856975	23	1.02E-03
1.44E+06	-0.731467869	11	1.36E+02
4.98E+03	-1	8	5.67E+02
4.18E+02	-1	6	3.57E+02
3.89E+06	-1	20	3.83E+05
7.94E-01	0.080497621	2	5.62E-01
3.23E+00	-0.15688904	10	3.24E+00
1.87E+00	-0.938146152	6	3.90E+01
4.52E+03	-0.866271911	13	8.18E+02
1.67E+00	-0.157669229	4	1.28E+00
7.50E+00	-0.714460823	6	1.60E+01
5.69E-05	0.449533091	24	1.80E-02
1.38E+00	-0.356783839	2	1.45E+00
2.51E-04	0.475370658	8	1.08E-01
4.59E-02	0.34437055	4	2.75E-01
8.89E-15	2	29	1.93E-12
1.60E-01	0.568864351	5	1.16E-01
2.03E+00	0.946890466	4	4.32E-02
6.92E+02	-2	8	2.27E+03
4.12E+07	-2	15	9.49E+05
1.08E+01	-1	4	5.44E+01
2.23E+03	-1	8	2.94E+02
3.38E-05	3	6	2.06E-05
9.85E-03	0.640022101	11	2.62E-02
4.40E-01	-0.004899815	4	8.03E-01
2.83E+01	-0.293183526	9	5.74E+00
3.91E+00	-0.736142096	7	2.65E+01
1.67E+04	-1	11	1.43E+03
5.55E-03	0.895561572	5	3.66E-02
1.11E+01	-0.279630573	23	1.01E+02
9.98E+00	0.291297182	6	2.94E-01
4.47E+01	-0.31631738	5	2.62E+00
2.53E+00	0.807387497	8	2.14E-02
2.89E+03	-0.625435927	10	4.87E+01
1.17E+01	-0.481360788	10	2.12E+01
1.21E+01	-0.491996149	6	6.61E+00
2.92E-01	0.196142712	16	4.06E-01
2.87E-01	0.486562043	19	2.28E-02
1.14E-06	3	11	2.05E-07
1.87E-03	1	9	4.14E-03
7.89E-01	0.630737366	10	3.39E-02
7.16E-02	0.604383592	13	2.23E-02
3.95E-06	2	18	8.65E-07
2.88E+00	-0.154679665	4	1.27E+00
3.66E-01	0.879147164	5	3.88E-02
6.54E-04	1	11	4.87E-04

2.79E+14	-2	24	4.52E+09
4.86E-03	0.813563952	26	1.23E-04
4.65E-03	0.950319478	7	1.51E-02
3.14E-01	0.099176397	3	5.61E-01
7.41E-02	0.651167534	19	4.50E-03
3.29E-14	2	32	1.02E-10
6.51E+05	-0.890834099	17	6.84E+03
2.56E+02	-0.882421997	8	8.21E+01
1.47E-03	0.859258051	10	9.04E-03
4.80E-02	0.906052281	3	6.79E-02
2.27E-02	0.394116343	8	1.61E-01
2.36E-01	0.384294552	5	2.22E-01
1.63E-02	0.450906952	5	1.76E-01
7.71E-01	-0.392089701	4	2.64E+00
5.87E+03	-0.090294471	18	5.96E+00
2.60E+01	-0.171932518	5	1.58E+00
1.56E+00	-0.111049868	9	2.17E+00
2.76E-01	0.94588895	4	4.33E-02
3.56E+01	0.269596008	11	2.64E-01
1.62E-02	1	11	2.27E-04
1.20E+01	-0.652896137	4	5.87E+00
3.94E-01	0.303870403	5	2.95E-01
1.08E+01	-0.299920105	27	3.08E+02
2.54E+00	0.424419271	6	1.73E-01
1.16E+01	-0.555799878	9	2.33E+01
2.97E+02	-0.76973182	9	7.29E+01
3.41E+55	-0.71111807	237	7.59E+41
9.05E+03	-0.214331289	12	6.48E+00
3.11E+01	-0.901582227	7	5.51E+01
5.00E+00	0.325318994	41	2.75E-02
2.10E+02	-1	7	1.00E+02
2.15E-07	2	18	9.03E-07
3.79E+02	0.176998174	11	4.70E-01
4.74E-01	1	15	4.51E-04
5.13E-06	0.763518996	52	2.60E-07
1.10E-04	0.982983845	11	3.08E-03
1.19E+03	-0.397389105	17	8.23E+01
3.58E+04	-0.131464839	12	3.72E+00
3.01E+01	-0.330180308	6	3.47E+00
6.10E+00	-0.565303574	3	3.20E+00
3.15E+06	-0.801844499	18	4.82E+03
1.13E+02	-1	4	6.54E+01
4.35E-01	-0.014755132	1	6.31E-01
5.14E+02	-1	5	5.04E+01
3.45E+00	-0.115567783	14	4.39E+00
1.00E-01	0.120235114	31	1.20E+00
3.24E-01	0.096481784	5	6.12E-01

1.89E+00	-0.250210722	4	1.71E+00
1.16E+00	-0.362805812	5	3.09E+00
1.37E+00	-0.410342104	4	2.79E+00
7.18E+03	-0.408030764	10	1.38E+01
1.40E-05	1	25	1.81E-07
1.01E+01	0.254943715	7	3.29E-01
2.65E+01	-0.38434687	10	1.21E+01
2.53E+01	-1	6	1.65E+02
3.13E+03	-0.532158025	10	2.84E+01
2.75E+09	-0.441721544	35	2.02E+04
1.51E+08	-0.654927859	34	5.29E+05
2.13E+02	-0.601127538	15	2.51E+02
4.10E-02	0.459107705	31	6.73E-03
3.49E-01	1	4	1.04E-02
5.99E-01	0.952673227	5	3.00E-02
1.53E-01	0.239149707	13	3.04E-01
3.16E+00	0.469349576	14	5.15E-02
2.19E-02	0.918269425	8	1.25E-02
8.61E-04	0.607266288	13	2.19E-02
7.38E+02	-0.943120874	8	1.10E+02
4.86E+07	-3	10	5.07E+06
2.20E+04	-0.936757567	15	3.74E+03
3.81E+00	-0.068239742	8	1.54E+00
5.60E+00	1	13	9.16E-04
8.27E-01	0.484659068	8	1.04E-01
2.13E-10	0.958141618	67	1.09E-11
4.93E+01	0.210596414	6	4.05E-01
7.27E-02	0.147363135	17	6.26E-01
1.06E+00	-0.186612929	6	1.96E+00
1.39E+01	-0.199783025	9	3.49E+00
1.44E+00	0.645325367	5	8.85E-02
3.57E-02	0.696568363	8	3.68E-02
1.13E+01	-0.351308362	6	3.78E+00
7.53E-02	0.536097287	5	1.30E-01
6.12E-02	1	6	1.27E-02
1.06E-03	1	15	5.66E-05
1.48E-03	1	10	1.94E-03
5.74E+00	-0.651733052	2	2.74E+00
2.14E+00	-0.326594046	2	1.36E+00
3.66E+00	-0.475763483	5	4.60E+00
5.37E+07	-0.810955308	26	1.93E+05
1.16E+00	0.189081654	4	4.43E-01
1.58E+02	0.184240522	47	4.51E-01
1.21E+01	-1	1	7.10E+00
8.42E-02	0.295164818	7	2.75E-01
1.14E+08	-0.812921326	25	1.26E+05
4.56E-01	-0.071266095	1	6.95E-01

3.39E+03	-2	4	2.68E+02
9.42E+01	-2	3	1.29E+02
6.61E+02	-0.491337258	4	3.58E+00
3.31E+00	-0.175587107	5	1.60E+00
1.76E+03	-1	12	1.92E+03
3.85E+01	-0.030781805	9	1.42E+00
3.61E+02	-1	5	5.08E+01
3.21E+00	-0.255163863	6	2.58E+00
2.85E+00	-0.121563202	8	2.00E+00
8.99E-01	-0.20354986	8	2.98E+00
1.76E+08	-1	31	3.49E+08
1.54E+01	-0.313544641	9	6.40E+00
1.09E+03	-0.758455382	14	5.80E+02
9.22E+00	0.263116034	17	2.22E-01
2.20E+01	-0.091744346	5	1.19E+00
9.53E+03	-0.761170458	12	2.52E+02
2.92E+02	0.506419008	8	9.32E-02
9.29E+00	0.227519334	33	2.23E-01
2.53E-01	0.734645988	3	1.06E-01
1.97E-02	2	4	6.87E-03
3.69E-05	2	8	1.54E-05
3.40E-06	3	6	1.11E-05
2.55E+01	-0.625938838	10	4.89E+01
1.08E+04	-1	6	3.47E+02
1.66E+02	-1	9	4.74E+02
4.99E-01	-0.050490879	4	9.24E-01
2.65E+03	-0.884072798	11	3.53E+02
3.64E+00	-0.107820237	10	2.44E+00
4.06E+01	-0.405298134	8	7.99E+00
4.18E-01	-0.473879992	1	1.39E+00
5.08E-02	0.382126614	7	1.87E-01
2.31E-01	-0.096684132	6	1.37E+00
3.34E+02	-0.596561005	11	5.87E+01
6.65E-01	0.124956925	7	5.84E-01
1.56E-01	0.064013745	9	8.53E-01
7.50E-03	1	6	1.16E-02
7.63E-01	-0.075759921	3	8.87E-01
1.06E+00	-0.443844244	5	4.11E+00
9.62E-06	2	11	6.64E-05
3.26E-02	1	5	9.89E-03
3.11E-01	-0.042145526	3	8.12E-01
9.68E-04	1	11	2.23E-04
1.64E-08	3	9	2.07E-07
2.57E-03	0.449866961	10	9.66E-02
1.30E+10	-2	14	2.01E+07
5.19E+07	-2	12	1.66E+05
4.99E+03	-3	3	2.32E+03

5.91E+01	-0.709282939	6	1.57E+01
2.15E+00	-0.454226152	2	1.79E+00
8.16E+00	-1	5	3.20E+01
2.23E+00	-0.279745122	8	4.33E+00
8.81E+01	-1	8	1.85E+02
6.79E-02	0.833977884	8	1.88E-02
6.16E-01	-0.110419653	2	8.50E-01
9.14E-04	0.851168051	18	8.46E-04
4.56E-02	0.840146574	5	4.45E-02
7.43E-01	-0.174261115	3	1.15E+00
1.64E+00	-0.116053376	5	1.29E+00
1.56E+00	0.084244264	5	6.39E-01
7.30E-01	-0.101267715	3	9.48E-01
9.62E-01	-0.009449886	4	8.14E-01
5.05E+01	-0.685823125	5	9.64E+00
1.55E+00	-0.016918169	6	1.00E+00
1.76E+00	0	9	1.20E+00
1.12E+00	-0.046166148	3	8.21E-01
9.72E+00	0.793216848	6	3.99E-02
5.43E-04	2	10	2.78E-05
2.13E+00	0.53406716	9	6.95E-02
1.02E-03	2	7	8.02E-05
1.50E-01	0.274085744	4	3.41E-01
4.23E-01	0	3	7.28E-01
2.21E+02	-0.460828163	21	4.68E+02
4.95E+01	-0.469639737	13	4.81E+01
2.38E+01	-0.24820328	7	3.05E+00
2.04E-01	0.038347439	7	8.57E-01
1.85E-35	2	55	2.01E-26
8.56E-03	1	4	1.49E-02
2.72E-02	1	8	2.05E-03
3.21E+03	0.335371656	14	1.43E-01
1.52E-36	2	116	4.55E-36
2.02E+02	-1	7	1.31E+02
4.25E-01	0	2	6.69E-01
6.37E+00	-0.675340772	7	2.02E+01
1.56E+00	-0.207336999	3	1.25E+00
6.55E-01	-0.155987809	4	1.28E+00
6.90E-01	-0.039792765	4	8.94E-01
1.38E+00	-0.509759717	6	7.10E+00
7.51E+01	0.818619887	37	4.91E-06
4.40E+02	-0.725643228	11	1.31E+02
2.56E+00	-0.201403099	3	1.23E+00
4.45E-01	-0.009362423	1	6.26E-01
5.47E+00	-0.343969666	7	4.66E+00
1.11E+02	-0.596430396	10	4.12E+01
1.10E+00	-0.112972262	5	1.28E+00

1.01E+02	-0.688494635	11	1.04E+02
1.07E+02	-0.148379655	10	3.08E+00
1.17E+01	-0.732901604	6	1.72E+01
5.16E-01	-0.091784418	2	8.16E-01
1.74E+05	-1	9	2.82E+03
1.28E+00	-0.203539409	5	1.76E+00
3.44E+01	0.115185753	4	5.55E-01
1.60E+02	-2	3	3.81E+01
5.00E+01	-0.479558163	7	8.50E+00
4.44E-01	-0.015541291	3	7.58E-01
4.09E-01	-0.207608133	6	2.13E+00
5.58E-01	-0.008620622	2	6.82E-01
8.81E+05	-0.901181083	17	7.50E+03
9.25E-01	-0.165208446	5	1.54E+00
1.43E+05	-0.718965093	26	5.83E+04
1.80E+02	-0.710911235	14	4.04E+02
7.20E-01	-0.596941834	2	2.44E+00
4.71E+05	-1	10	1.89E+03
4.07E+01	-1	3	1.09E+01
1.97E+01	-0.764066019	3	5.38E+00
9.72E-01	0	1	6.16E-01
7.03E-01	-0.213537553	2	1.06E+00
4.32E-01	-0.005902878	2	6.78E-01
3.21E-01	0.085458145	3	5.82E-01
9.06E-03	0.747192156	9	2.23E-02
5.15E-01	-0.055903256	5	1.05E+00
1.42E+00	-0.345729077	6	3.70E+00
3.43E-01	-0.006801634	4	8.08E-01
9.57E+02	-0.584190326	24	5.01E+03
1.72E-02	0.381860615	15	9.16E-02
2.63E+09	-1	17	5.61E+05
1.70E+03	-2	7	1.54E+03
1.94E+03	-0.830753372	11	2.53E+02
1.27E-07	1	19	6.42E-06
5.84E-01	0.107237274	4	5.69E-01
1.06E+02	-0.597113067	10	4.14E+01
1.28E+03	-0.622725995	17	6.20E+02
9.50E+00	-0.929611242	3	8.29E+00
1.44E+01	-0.188684989	6	1.98E+00
3.49E+00	-0.545564882	5	5.88E+00
4.63E-01	-0.024855306	2	7.06E-01
1.44E+00	-0.233516946	7	2.86E+00
6.14E-01	1	10	7.62E-04
1.03E+00	0.709069413	16	5.18E-03
6.15E+00	-0.088882002	7	1.51E+00
1.16E+03	-0.501850346	10	2.38E+01
9.95E+01	-0.412715492	7	6.32E+00

3.59E+02	-1	7	6.19E+02
2.56E+03	-0.879117272	7	4.99E+01
3.64E+04	-2	8	7.61E+03
8.58E+03	-0.763429035	11	1.66E+02
5.61E-01	-0.188839735	4	1.41E+00
1.22E+02	-0.341267741	7	4.61E+00
5.32E-07	2	15	1.04E-05
5.33E+02	0.560636271	21	7.82E-03
2.27E+03	-0.389727739	11	1.62E+01
4.62E-02	0.613871801	18	7.89E-03
5.05E+00	-0.132809852	6	1.58E+00
2.54E-01	1	5	1.73E-02
1.01E+02	0.108255266	17	8.88E-01
1.53E-25	3	38	2.02E-22
1.55E-01	0.51071181	4	1.65E-01
2.27E-08	1	15	1.14E-05
4.55E-02	0.899281689	1	1.32E-01
2.62E-03	2	4	3.26E-03
2.43E-03	2	6	6.82E-04
3.03E+00	0.120989769	7	5.95E-01
6.56E-02	1	6	7.66E-03
1.62E-02	0.572774313	12	3.34E-02
4.35E-01	0.827137269	5	4.66E-02
6.45E-01	0.644072307	9	3.87E-02
2.42E+00	0.033208002	11	1.15E+00
7.46E-01	-0.031193873	11	1.72E+00
1.89E+01	-0.095238476	7	1.55E+00
1.25E+00	0.241527853	14	2.91E-01
2.59E-06	2	9	3.33E-05
4.10E-06	4	2	1.30E-04
4.01E-01	0.163848348	7	4.92E-01
4.04E+00	-0.169898768	7	2.16E+00
2.88E+02	-0.63319604	11	7.38E+01
1.59E+00	-0.282583371	3	1.52E+00
4.10E+00	-0.107049876	5	1.25E+00
3.24E-01	0.034754381	4	7.11E-01
3.85E+00	-0.244156118	7	3.00E+00
1.97E+01	-0.502857679	11	3.27E+01
1.56E+01	-0.519979286	10	2.65E+01
2.74E+01	-0.703470679	5	1.03E+01
1.67E+03	-1	12	1.01E+04
7.08E-01	-0.201043171	3	1.23E+00
4.73E-01	0	4	7.91E-01
4.24E-01	-0.020723484	1	6.38E-01
2.37E+02	-0.367038292	22	2.19E+02
7.20E+01	-1	6	5.56E+01
1.58E+00	-0.447561664	5	4.16E+00

4.98E-01	-0.006254454	3	7.40E-01
3.41E+01	0.002135024	7	1.01E+00
3.46E+00	-0.881839752	3	7.32E+00
6.24E-01	-0.156906088	1	8.05E-01
4.21E+01	-1	5	4.99E+01
6.03E+00	-0.642967491	5	8.29E+00
1.01E+00	-0.258179448	3	1.43E+00
5.02E-01	-0.032367248	4	8.74E-01
1.12E+00	0.282504833	3	3.47E-01
1.46E+00	-0.231101245	5	1.94E+00
9.34E-01	-0.342822061	3	1.78E+00
1.35E+00	-0.356068038	5	3.01E+00
4.29E-01	0.215363133	2	4.20E-01
2.30E+02	-0.95878452	5	2.52E+01
6.69E-01	-0.257395919	1	9.57E-01
7.44E-01	0	3	7.28E-01
9.71E+00	-0.293529267	5	2.42E+00
3.39E+00	-0.266629292	5	2.20E+00
1.69E+02	-2	4	6.28E+02
6.58E-01	-0.010259452	3	7.47E-01
4.40E-01	-0.008955991	2	6.82E-01
3.50E+00	-0.1787326	5	1.61E+00
6.62E+00	0.178511275	4	4.57E-01
5.43E+02	-0.925873535	8	1.01E+02
5.05E-01	-0.111189629	3	9.73E-01
2.95E-01	-0.002188335	9	1.21E+00
4.30E-01	-4.57E-05	2	6.69E-01
4.44E-01	-0.016977652	1	6.34E-01
7.68E+00	-0.700208627	3	4.55E+00
1.61E+00	0.148651762	2	4.85E-01
1.75E+00	-0.352744665	5	2.98E+00
1.61E+01	-1	5	5.99E+01
3.80E+00	-0.561454799	4	4.44E+00
1.93E+00	-0.223788159	4	1.57E+00
1.16E+01	-0.832633447	6	2.56E+01
2.66E+00	-0.489797492	2	1.93E+00
5.94E-01	-0.064833573	2	7.70E-01
8.42E+01	-0.993605563	3	9.81E+00
1.27E+00	-0.178708574	7	2.24E+00
7.43E-01	-0.048935934	4	9.19E-01
8.57E-01	-0.13354094	2	8.94E-01
6.10E-01	-0.186558892	6	1.96E+00
3.10E+00	-0.534565172	6	7.83E+00
6.15E-01	-0.165660456	3	1.12E+00
2.91E+02	-0.371261344	7	5.26E+00
1.88E+00	0.347647835	6	2.35E-01
3.73E-01	0.473165154	1	2.74E-01

3.01E-02	2	5	1.02E-03
1.80E+00	0.476992242	7	1.23E-01
4.09E-01	0.100903001	2	5.38E-01
3.55E-01	1	4	2.27E-02
4.16E+01	-0.77079857	7	3.09E+01
8.42E+01	-0.376989544	5	3.25E+00
1.73E+03	0.32699749	10	1.97E-01
6.52E-01	-0.096555733	6	1.37E+00
1.07E+00	-0.452793545	3	2.38E+00
2.72E+00	-0.01132365	4	8.19E-01
3.42E+01	0.203993289	22	3.61E-01
6.67E-01	0.006189636	4	7.76E-01
2.92E+00	-0.43317411	4	2.99E+00
2.22E+02	-0.214974059	4	1.53E+00
2.04E+00	-0.271968852	4	1.82E+00
1.20E+00	-0.151409919	3	1.08E+00
5.95E+00	-0.332409518	2	1.37E+00
8.22E-01	-0.022012628	5	9.29E-01
5.62E-01	-0.071217618	4	9.84E-01
5.31E+00	-0.006991525	5	8.81E-01
1.59E+03	-0.896761999	6	3.31E+01
8.71E-01	-0.276179519	4	1.85E+00
2.47E-01	-0.254777716	5	2.11E+00
2.67E+02	-0.431117996	6	5.19E+00
7.94E+00	-0.476924464	7	8.40E+00
1.08E+01	-0.564010803	9	2.43E+01
2.77E+01	-0.701667822	8	3.40E+01
1.24E+00	-0.160515357	2	9.47E-01
2.48E+02	-1	4	3.09E+01
6.37E-01	-0.072145861	2	7.82E-01
5.45E-01	-0.055284294	1	6.77E-01
3.83E+02	-2	5	2.26E+02
2.75E+00	-0.758534957	1	2.26E+00
1.61E+00	-0.297379989	3	1.58E+00
5.46E-01	-0.454228432	5	4.26E+00
5.28E-01	-0.241606977	3	1.37E+00
6.31E-01	-0.056573708	3	8.44E-01
4.71E+00	-0.321957658	11	1.06E+01
4.66E-01	-0.007806232	1	6.24E-01
6.44E+01	-0.059033616	7	1.32E+00
9.00E+00	-2	2	2.06E+01
7.11E+00	-0.72318142	4	7.29E+00
1.04E+00	-0.084772105	6	1.31E+00
7.26E-01	-0.445455567	3	2.34E+00
7.02E+00	-0.122719517	17	7.03E+00
7.10E-01	-0.170746707	1	8.25E-01
1.50E-02	0.262677833	15	2.39E-01

1.78E+05	0.089448839	41	2.95E+00
3.50E+03	0.3884967	23	4.15E-02
7.31E+00	-0.06413394	21	6.53E+00
6.68E-04	0.658824231	22	2.19E-03
1.24E-03	1	8	5.40E-03
3.55E+00	-0.330435636	7	4.39E+00
4.87E-01	-0.066833509	2	7.73E-01
7.87E-01	-0.900726821	5	2.05E+01
8.89E+00	-0.621623195	4	5.34E+00
4.16E+01	-0.308912308	14	1.91E+01
6.52E-01	-0.097928311	4	1.07E+00
8.07E-01	-0.066585263	5	1.09E+00
5.12E-01	0	5	8.60E-01
6.43E-01	-0.001025937	5	8.63E-01
2.43E+00	-0.111834537	6	1.46E+00
3.79E+01	-0.487104324	14	7.38E+01
1.21E+00	-0.17320059	4	1.35E+00
4.29E-01	0	3	7.28E-01
3.31E+03	-1	12	7.20E+03
3.57E+00	-0.537532951	4	4.12E+00
8.40E+01	-0.840850752	7	4.21E+01
4.35E-01	-0.016977652	1	6.34E-01
4.14E-01	0	1	6.16E-01
3.57E+00	0	2	6.69E-01
4.35E+00	-0.861481597	5	1.79E+01
2.20E+00	-0.159356398	3	1.10E+00
4.17E+00	-0.505841106	6	6.99E+00
5.54E-01	-0.016954547	4	8.33E-01
4.41E-01	0	3	7.28E-01
3.15E+01	-2	3	8.33E+01
3.47E+00	-0.261815785	4	1.77E+00
2.15E+00	-0.343783352	4	2.27E+00
5.10E-01	0.140579373	4	5.14E-01
4.03E-01	0.004766219	4	7.79E-01
3.14E+03	0.458710687	10	9.18E-02
5.81E-01	-0.12069504	8	1.99E+00
5.59E-01	-0.152310365	2	9.31E-01
2.00E+01	-0.547297688	5	5.91E+00
3.41E+02	-0.287265008	12	1.06E+01
4.11E-01	0	4	7.91E-01
1.13E+01	-0.219757228	7	2.69E+00
6.01E-01	-0.009862354	4	8.15E-01
1.55E+00	0.198733969	4	4.30E-01
1.94E+01	-0.863688346	3	6.98E+00
1.56E+01	-0.63286513	4	5.52E+00
3.49E+00	-0.04811986	4	9.17E-01
4.48E-01	-0.013792192	1	6.30E-01

6.09E+00	-0.697353967	5	1.00E+01
1.59E+02	-0.782363229	8	5.03E+01
1.07E-03	0.249252231	6	3.47E-01
5.05E-02	0.476767895	4	1.83E-01
5.73E-01	0.847326506	4	5.86E-02
9.38E+00	-0.225292765	5	1.90E+00
9.45E+00	-0.954711812	6	4.16E+01
1.81E+00	0.291759188	11	2.30E-01
3.71E+00	-0.606414325	8	2.13E+01
2.29E-01	0.338200472	5	2.61E-01
4.56E-01	-0.096802356	3	9.37E-01
2.22E-02	1	4	1.05E-02
8.28E-02	1	3	3.47E-02
3.13E-02	1	6	3.74E-03
8.39E-03	2	10	1.33E-04
4.63E+01	-0.683592529	8	3.11E+01
1.68E+00	0.003597755	8	1.09E+00
3.79E+01	-0.479242066	4	3.45E+00
2.28E+02	-1	9	1.38E+03
1.17E+00	0.23568329	10	3.34E-01
1.51E-08	0.932474272	43	8.28E-08
1.79E-01	0.342784739	4	2.76E-01
8.80E-01	-0.175742994	10	3.61E+00
2.84E-04	3	4	2.48E-04
3.89E+00	0.360092379	5	2.42E-01
5.47E+17	-0.410310551	53	1.50E+06
1.47E+03	-0.374954401	6	4.15E+00
1.88E+04	-0.497292062	7	9.19E+00
7.19E+02	-1	4	6.11E+01
3.60E-01	0.035754379	2	6.19E-01
3.34E-03	0.515566615	16	2.69E-02
8.82E+00	0.010579419	13	1.56E+00
8.03E-03	1	7	2.72E-03
8.43E-03	1	7	8.26E-03
1.77E-01	0.900497751	13	2.69E-03
1.80E+00	-0.052029121	3	8.34E-01
3.17E-01	0.054590734	4	6.69E-01
3.77E+01	0.05552271	5	7.07E-01
1.22E+02	-0.60402355	8	2.11E+01
1.12E+01	-0.198969473	4	1.46E+00
7.50E+00	0.545745002	4	1.48E-01
8.87E+00	-0.30062268	7	3.85E+00
9.71E+00	0.797765102	9	1.70E-02
2.06E+00	0.651450204	4	1.07E-01
2.29E-02	0.668321947	13	1.41E-02
5.23E-01	-0.471059194	6	6.08E+00
1.21E+01	-0.72029331	5	1.09E+01

1.02E+00	-0.288873447	4	1.92E+00
1.07E+01	-0.536723308	9	2.10E+01
1.30E+01	-0.394303829	8	7.57E+00
2.96E+02	-0.2640674	11	7.37E+00
4.57E+00	-0.2117302	7	2.60E+00
5.05E-01	-0.139447385	2	9.05E-01
3.84E+01	-0.696493436	7	2.22E+01
1.64E+00	-0.239147047	1	9.27E-01
1.26E+01	-0.876304048	5	1.89E+01
4.75E+00	-0.663648526	3	4.13E+00
2.46E+01	-0.641801531	13	1.65E+02
1.47E+03	-0.314801164	19	6.17E+01
3.87E-06	1	17	1.48E-05
9.85E-03	2	8	6.59E-05
3.61E-01	0.273991094	4	3.41E-01
7.68E-01	0.171470247	7	4.75E-01
6.86E+00	0.274930101	5	3.26E-01
8.61E-01	-0.086169288	5	1.16E+00
8.37E+01	-0.41913053	11	1.94E+01
1.38E-04	1	24	1.10E-05
2.71E-01	-0.041529894	6	1.10E+00
2.21E+00	0.445532569	8	1.25E-01
4.04E+06	-0.436982118	56	6.85E+06
2.25E-02	1	5	9.74E-03
8.61E-03	1	4	2.03E-02
3.99E-02	0.206458506	4	4.20E-01
3.31E+08	-2	19	7.62E+06
3.92E+00	-1	2	8.86E+00
1.76E+00	-0.475265917	4	3.40E+00
9.20E-01	0.211901893	5	4.08E-01
2.75E+00	0.176561972	7	4.65E-01
4.34E+00	0.549468626	12	3.90E-02
1.38E+00	0.269777383	12	2.54E-01
3.39E-01	0.029204149	2	6.28E-01
4.15E+03	-0.463420105	11	2.56E+01
4.66E-01	-0.007056948	3	7.41E-01
5.61E-01	-0.111712753	3	9.75E-01
6.54E+00	-0.597566137	11	5.91E+01
4.25E-01	-0.004011702	3	7.35E-01
4.47E-01	0	2	6.69E-01
1.93E+01	-0.30135965	9	5.99E+00
7.86E-01	-0.182560551	5	1.64E+00
4.46E-01	-0.170995463	4	1.34E+00
2.64E+04	-0.890922446	17	6.84E+03
1.22E+01	-0.849939401	5	1.72E+01
5.79E+03	-1	7	4.35E+02
5.45E+02	-0.800220971	8	5.49E+01

4.28E-01	-0.063716967	3	8.60E-01
1.78E+00	-0.378892665	5	3.27E+00
1.92E+00	0	5	8.60E-01
1.29E+00	-0.528460415	7	1.06E+01
1.04E+04	-0.977945321	13	1.82E+03
1.12E+01	-0.936916664	3	8.46E+00
2.04E+30	-3	50	1.27E+30
4.54E+02	-1	8	4.10E+02
4.27E+04	-1	13	6.25E+04
5.48E-01	0.111287503	12	7.33E-01
1.29E+00	0.94850781	14	1.35E-03
6.05E-02	2	6	2.34E-03
3.32E-01	0.607887452	4	1.22E-01
4.74E+03	-0.1899622	13	6.52E+00
4.21E+00	-0.47044299	7	8.16E+00
4.41E+04	-2	13	1.00E+06
1.87E+00	-0.301535079	5	2.49E+00
9.34E+00	-0.347674199	11	1.24E+01
3.62E+03	-1	14	1.77E+04
4.96E+01	-0.172617612	3	1.14E+00
7.33E+00	0.22612263	18	3.03E-01
1.80E+00	-0.104410168	5	1.24E+00
3.96E+01	-0.32115388	7	4.21E+00
7.17E-01	-0.241858723	2	1.13E+00
5.17E-01	-0.00041639	2	6.70E-01
1.20E+05	-1	8	7.43E+02
1.07E+05	-0.992250033	17	1.70E+04
2.38E+04	-0.501263864	13	6.03E+01
4.50E+01	-0.447088685	3	2.35E+00
1.46E+01	-0.530174848	11	3.88E+01
4.52E-03	3	2	2.34E-03
2.16E-09	2	15	1.04E-08
9.62E-04	1	7	2.07E-03
7.07E-02	0.185104276	9	4.47E-01
1.36E+00	-0.145252922	7	1.93E+00
7.85E-01	-0.285693483	5	2.35E+00
1.62E+00	-0.765349499	3	5.40E+00
3.44E+04	0.071869611	37	3.41E+00
7.44E+01	-0.236554706	6	2.39E+00
2.41E+00	-0.301512537	6	3.10E+00
1.19E+03	-0.675841996	12	1.42E+02
6.17E-05	2	9	5.29E-05
4.82E+01	-0.163378932	10	3.36E+00
9.48E-01	-0.035296006	6	1.08E+00
1.53E+00	-0.245144615	2	1.14E+00
6.54E-01	-0.055854782	5	1.05E+00
4.41E+00	-0.149685704	8	2.29E+00

4.11E+01	-0.672293986	9	4.34E+01
1.58E+03	-1	10	5.35E+03
1.09E+02	-2	4	8.59E+01
1.49E+04	-1	15	1.25E+05
1.80E+00	-0.098949077	7	1.58E+00
5.94E+00	-0.743845125	3	5.10E+00
2.24E+02	-0.984978218	6	4.70E+01
1.60E+00	-0.672401357	5	9.19E+00
4.59E-01	-0.003382397	2	6.74E-01
7.88E-01	0	4	7.91E-01
6.14E-01	-0.003607721	3	7.34E-01
4.54E-01	-0.40068111	4	2.71E+00
4.20E-01	-0.271198411	3	1.48E+00
3.63E-01	-0.116974927	6	1.49E+00
5.78E+01	-1	2	1.30E+01
9.30E-01	-0.146419613	8	2.26E+00
1.57E+01	0.011069441	10	1.22E+00
3.96E+01	-0.580131709	6	9.39E+00
3.29E+03	-0.392004775	17	7.84E+01
1.86E+00	-0.362117599	4	2.40E+00
4.98E-02	0.220315639	12	3.53E-01
4.23E-01	0.340798447	5	2.59E-01
4.19E-01	-0.051231937	4	9.26E-01
9.59E-01	-0.255287734	8	3.84E+00
1.39E+01	-0.568717158	7	1.26E+01
6.71E+01	-0.247518111	7	3.04E+00
5.74E-03	2	12	6.68E-05
9.58E-01	0.189323602	2	4.44E-01
2.04E+01	0.330342285	7	2.35E-01
4.72E+03	-0.519598844	18	3.38E+02
6.44E+00	0.325994967	12	1.74E-01
3.12E-01	0.41567705	9	1.31E-01
3.42E-01	0.697208846	9	2.91E-02
3.87E+02	-1	6	1.96E+02
6.07E+02	-1	13	4.33E+03
1.49E+00	-0.607856067	10	4.40E+01
2.13E-16	1	77	1.21E-15
7.78E+00	-0.02476381	5	9.38E-01
7.83E-08	2	11	8.94E-06
5.61E+01	0.972716914	13	1.61E-03
2.19E+02	-0.266722641	5	2.20E+00
6.42E-01	1	19	1.12E-04
5.41E-02	0.156534587	6	5.02E-01
4.12E-02	2	4	2.04E-03
5.59E-01	2	4	6.35E-03
5.90E-01	0.730627771	4	8.39E-02
1.34E-15	3	31	1.51E-16

4.66E-01	0.154760932	12	5.48E-01
4.50E-02	2	3	5.42E-03
5.31E-07	1	23	4.19E-07
5.55E+00	0.600101856	4	1.25E-01
8.18E+01	-0.744142785	9	6.36E+01
3.51E+01	-0.291568286	8	4.59E+00
1.17E+04	-2	10	1.08E+04
1.81E+00	0.165672707	2	4.67E-01
4.98E-01	0.02608065	1	5.89E-01
1.03E+00	-0.136611946	5	1.39E+00
6.60E-01	-0.257395919	1	9.57E-01
4.86E-01	-0.044090599	2	7.36E-01
2.46E+04	-1	12	3.35E+03
9.82E+12	-2	25	5.78E+13
7.27E+13	-4	17	1.84E+14
1.08E+06	-0.87140222	8	7.78E+01
1.97E-01	0.492331419	8	9.99E-02
1.90E-01	1	12	1.29E-04
1.14E-01	0.747201464	3	1.03E-01
9.50E-02	0.373097525	31	2.51E-02
3.72E+00	0.24158822	53	1.06E-01
4.81E-02	0.336301922	22	8.17E-02
4.47E+00	-0.750649861	7	2.82E+01
6.64E+02	-1	6	1.57E+02
1.30E-02	1	7	6.17E-03
2.10E+03	-2	6	5.88E+03
4.58E-01	-0.027906944	1	6.46E-01
4.82E+02	-1	4	6.62E+01
3.00E+00	-0.330838245	7	4.40E+00
1.04E-01	0.406787033	10	1.24E-01
4.33E-16	2	35	2.68E-14
1.41E-01	1	1	1.07E-01
6.84E+00	-0.368946607	7	5.21E+00
2.54E-01	0.896556022	6	2.64E-02
4.16E-01	0.035407124	1	5.79E-01
1.31E-01	0.905730872	5	3.53E-02
2.78E-01	0.511746379	6	1.22E-01
7.98E-02	1	14	5.96E-04
7.09E+01	-0.648128282	14	2.51E+02
9.64E-01	-0.130948263	5	1.36E+00
4.58E-01	-0.014020948	1	6.31E-01
3.44E+00	-0.478534789	6	6.27E+00
9.63E+00	-0.6804738	3	4.32E+00
9.44E+00	0.071272667	12	9.58E-01
2.32E-06	1	20	6.75E-05
1.04E+00	-0.590681976	3	3.42E+00
9.74E+00	-0.21452011	3	1.28E+00

1.87E+02	-0.614040832	9	3.18E+01
2.58E+01	-0.593061935	12	8.17E+01
5.01E+00	-0.614524297	3	3.64E+00
7.37E+01	-0.458660326	9	1.39E+01
4.29E-01	-0.000192256	2	6.70E-01
5.57E-01	-0.001476332	6	9.40E-01
5.56E+01	-0.138246806	14	5.21E+00
4.43E-01	0	1	6.16E-01
7.99E-01	-0.070953439	3	8.76E-01
9.40E+00	-0.000979034	10	1.31E+00
8.03E-01	-0.166237812	9	2.92E+00
4.46E-01	-0.003472687	4	7.99E-01
3.64E-01	0.558202546	7	8.57E-02
9.49E-01	-0.035706498	7	1.19E+00
3.71E+00	-0.191134247	10	3.95E+00
1.99E+00	-0.368128372	3	1.91E+00
2.89E+00	-0.361789936	3	1.88E+00
1.31E+00	-0.10877653	5	1.26E+00
6.73E-01	-0.003137688	7	1.03E+00
2.33E+00	-0.153782305	8	2.34E+00
7.54E+00	-0.686135379	7	2.12E+01
2.39E+01	-0.197174183	9	3.44E+00
1.06E+01	-0.041989597	6	1.10E+00
1.83E-01	0.394399833	8	1.61E-01
1.33E-01	-0.182843495	7	2.28E+00
9.10E-09	2	25	6.71E-11
3.01E-06	1	20	5.87E-07
1.24E-09	0.847739725	56	9.67E-09
3.93E-01	0	6	9.35E-01
4.20E-01	0	3	7.28E-01
3.45E-01	0	12	1.54E+00
4.29E-01	0	2	6.69E-01
4.20E-01	0	3	7.28E-01
4.29E-01	0	2	6.69E-01
4.38E-01	0	1	6.16E-01
4.11E-01	0	4	7.91E-01
4.38E-01	0	1	6.16E-01
4.29E-01	0	2	6.69E-01
4.29E-01	0	2	6.69E-01
4.62E-01	0.188926895	1	4.45E-01
3.25E-01	0.107784089	26	1.22E+00
3.93E-01	0	6	9.35E-01
4.20E-01	0	3	7.28E-01
3.45E-01	0	12	1.54E+00
4.29E-01	0	2	6.69E-01
4.29E-01	0	2	6.69E-01
4.38E-01	0	1	6.16E-01

4.11E-01	0	4	7.91E-01
4.38E-01	0	1	6.16E-01
4.29E-01	0	2	6.69E-01
4.29E-01	0	2	6.69E-01
4.38E-01	0	1	6.16E-01
4.96E-01	0.058127794	5	7.01E-01
6.68E-01	0.448301993	1	2.86E-01
2.32E-01	0.677529879	8	4.04E-02
6.33E-01	0.419817163	3	2.42E-01
4.22E-05	2	7	1.99E-05
1.07E+01	0.513878372	13	4.26E-02
3.92E+02	-2	5	3.03E+02
1.12E+07	-0.477149651	22	7.52E+02
2.97E+01	0.258226969	6	3.35E-01
3.21E+01	-0.34455171	10	9.59E+00
1.45E+01	-0.965491502	15	4.71E+03
2.71E+01	-0.037454564	29	1.09E+01
4.32E+01	0.573842145	20	8.09E-03
1.04E-01	-0.05598685	9	1.62E+00
5.03E+02	-2	15	1.95E+06
1.84E+00	0.030834706	4	7.19E-01
4.94E-01	-0.01294918	5	9.00E-01
7.13E+01	-0.91434933	8	9.59E+01
1.23E+00	-0.661912795	6	1.30E+01
2.45E+00	-0.422868342	3	2.20E+00
6.92E-01	-0.176455089	3	1.15E+00
1.36E+01	0.306012976	7	2.62E-01
7.08E-01	-0.070627018	2	7.80E-01
1.39E+01	-0.378864185	9	9.06E+00
7.63E+02	-1	9	6.71E+02
4.02E-01	0	5	8.60E-01
4.36E-01	0	2	6.69E-01
1.28E+00	-0.000255873	5	8.61E-01
3.68E-01	-0.064051669	3	8.60E-01
9.79E+01	-1	4	4.26E+01
6.25E-01	-0.380621468	7	5.48E+00
7.13E+00	-0.32273813	8	5.34E+00
9.46E-01	0	4	7.91E-01
1.37E+01	-0.22381649	7	2.74E+00
6.43E+03	-1	11	4.20E+03
3.28E+04	-1	21	1.83E+05
5.57E-01	-0.506314841	8	1.31E+01
6.09E+00	-0.550295495	12	6.14E+01
7.38E-01	-0.034800141	1	6.53E-01
3.94E+00	-0.529830479	5	5.56E+00
2.46E+00	-1	2	9.71E+00
1.44E+00	-0.282065874	2	1.23E+00

7.89E+01	-0.961615485	4	1.52E+01
1.86E+02	-1	3	2.53E+01
2.94E+01	-0.779969438	5	1.34E+01
2.42E+00	-0.13984625	2	9.06E-01
6.45E+00	-0.112877085	7	1.68E+00
1.32E+03	-1	5	1.42E+02
2.45E+00	-1	6	1.42E+02
2.47E+02	-0.649983311	13	1.74E+02
7.22E-02	0.189966191	4	4.41E-01
1.19E+00	-0.451935766	4	3.17E+00
1.03E-01	-0.030681256	6	1.06E+00
1.98E+00	-0.843316205	6	2.67E+01
6.04E-01	-0.833192626	4	1.02E+01
5.02E-03	2	4	2.48E-03
2.52E+01	0.348775498	6	2.34E-01
2.17E+02	-0.770038567	7	3.08E+01
5.60E-01	-0.021758172	3	7.70E-01
5.41E+03	-2	4	9.42E+02
4.87E+06	-2	6	8.45E+02
1.06E+03	-0.538208611	23	2.07E+03
8.36E-01	-0.083434797	2	8.02E-01
7.68E-01	-0.152651973	1	8.00E-01
1.11E+01	-0.716975835	5	1.08E+01
6.56E-01	0.117656067	2	5.19E-01
2.84E+00	0.388762213	3	2.63E-01
9.37E-02	-0.132727006	6	1.58E+00
3.98E-01	0.217304261	2	4.18E-01
7.14E+01	-0.801862942	5	1.45E+01
2.27E+00	-0.188097018	3	1.19E+00
7.60E+01	-0.159706152	7	2.06E+00
6.85E+03	-1	11	2.95E+03
2.93E+05	-2	10	3.89E+04
1.45E+05	-1	8	1.10E+03
5.29E-01	0.097265608	2	5.42E-01
4.68E-03	1	7	5.18E-03
2.04E+02	-0.933565933	6	3.83E+01
1.25E+00	0.778522683	6	4.23E-02
8.06E-01	0.151117316	10	5.44E-01
1.32E+02	-0.585528542	14	1.56E+02
1.75E+02	-1	4	3.83E+01
9.43E-03	1	15	1.29E-05
1.55E+02	-0.11285644	16	5.63E+00
6.21E-11	2	15	2.28E-08
5.04E-02	1	9	4.00E-03
1.57E+02	-1	6	1.71E+02
1.19E+03	-1	13	4.44E+03
4.75E+00	0.207983189	9	3.96E-01

1.96E-02	0.430810883	9	1.21E-01
1.07E-10	3	19	7.17E-13
3.01E-01	-0.140881323	7	1.90E+00
3.76E-03	2	4	4.54E-04
5.97E+00	0.291145718	12	2.20E-01
9.20E+03	0.031840547	27	3.52E+00
3.01E-01	0.180452649	7	4.57E-01
2.88E+03	-0.846847848	7	4.32E+01
6.05E+04	-0.58692334	16	3.17E+02
2.78E+00	-0.533647043	3	2.94E+00
5.04E+00	-0.486233355	2	1.92E+00
1.27E+01	-0.305962616	10	7.67E+00
2.84E-05	3	7	1.48E-05
2.26E+01	-0.542638533	4	4.19E+00
3.44E+00	-0.687268434	5	9.69E+00
2.96E+05	-2	7	5.58E+03
3.56E+07	-1	17	3.53E+05
2.03E+03	-1	6	6.99E+01
2.50E+01	-0.516972444	14	9.27E+01
3.11E-02	0.754278889	6	4.66E-02
2.63E+00	-0.430214842	7	6.83E+00
5.32E-02	0.461633258	16	4.25E-02
8.39E-01	0.515703202	15	3.12E-02
4.47E-01	0.190784907	8	4.35E-01
7.64E-01	0.411333778	5	2.02E-01
2.51E+01	0.802840979	8	2.19E-02
6.61E-07	3	7	6.76E-06
9.28E-03	1	12	1.58E-04
3.47E-01	0.764049531	12	9.28E-03
2.67E+00	-0.213956466	3	1.27E+00
8.17E+01	-0.672456024	8	2.94E+01
4.39E+01	-0.554699882	4	4.34E+00
3.77E+00	0.019424296	5	8.03E-01
8.68E-01	-0.062774385	8	1.50E+00
2.47E+00	-0.09016616	4	1.04E+00
1.78E+00	-0.237535344	4	1.64E+00
1.22E+00	-0.696341875	6	1.49E+01
1.98E+00	-0.049238367	2	7.45E-01
7.49E+01	-0.236999745	8	3.51E+00
3.20E+00	0	3	7.28E-01
9.14E-01	-0.033492337	3	7.94E-01
5.85E-02	0.755739874	51	4.08E-07
2.81E-02	0.723435668	3	1.09E-01
4.99E+02	0.024973625	36	7.39E+00
2.65E+00	0.312097806	6	2.70E-01
1.56E-05	1	19	1.40E-04
4.61E-01	-0.000254939	1	6.16E-01

5.02E-01	-0.069742513	2	7.78E-01
5.66E+17	-0.426469334	68	1.43E+08
1.05E+01	-0.382923695	7	5.54E+00
9.36E+00	-0.130139363	7	1.81E+00
9.94E+02	-0.570542249	11	4.99E+01
1.74E+02	-1	4	6.81E+01
1.55E+00	-0.000578355	7	1.02E+00
4.82E-01	-0.0085138	1	6.25E-01
6.29E-01	-0.086960063	2	8.08E-01
9.34E+09	-2	14	1.14E+08
1.28E-07	2	14	2.54E-07
5.10E+00	0.327183236	6	2.54E-01
1.03E+02	-1	12	2.27E+03
6.13E-01	0.533774126	10	5.95E-02
1.13E-01	0.293366167	8	2.64E-01
6.12E-01	-0.454871366	6	5.70E+00
7.57E-01	-0.016074026	5	9.10E-01
2.95E+02	-0.392924335	8	7.52E+00
1.41E+08	-2	14	1.10E+07
7.12E+00	-0.568624369	7	1.26E+01
6.57E-01	0.337176225	5	2.62E-01
5.77E+00	-0.040162103	9	1.49E+00
4.68E+00	0.276880467	8	2.86E-01
2.63E+00	0.331318526	11	1.80E-01
1.41E-01	0.981750451	1	1.15E-01
6.52E-03	1	6	1.69E-02
2.02E-02	1	4	3.13E-02
1.30E-02	2	2	1.73E-02
1.58E-01	0.929228698	6	2.32E-02
1.81E-05	0.971874886	25	2.24E-05
3.03E-12	2	22	5.51E-12
5.93E+03	-0.666252999	11	9.07E+01
3.43E+00	-0.370167671	6	4.07E+00
9.36E-01	-0.380596697	8	7.08E+00
7.23E+00	0.582934936	15	1.81E-02
1.46E+02	-0.228623077	15	1.25E+01
9.90E+01	0.261452005	3	3.67E-01
3.97E-05	1	19	2.73E-05
6.50E+02	-1	7	1.69E+02
2.22E+01	-1	3	3.16E+01
1.24E+03	-2	5	5.13E+03
6.71E+02	-2	3	8.95E+01
3.39E+00	-1	2	6.90E+00
2.80E+03	-2	7	1.18E+03
4.00E+00	-2	2	7.25E+01
4.44E-01	-0.00826411	1	6.24E-01
4.42E-01	-0.010098374	2	6.84E-01

4.78E-01	-0.022362939	2	7.02E-01
2.88E+01	0.502165044	42	7.15E-04
9.40E+03	-0.924482032	16	5.60E+03
7.86E-01	0.013491846	3	7.02E-01
8.92E+01	-0.791992006	10	1.28E+02
6.27E+00	-0.230616033	8	3.41E+00
4.87E-07	2	13	7.17E-07
6.17E-02	0.852905176	14	2.79E-03
1.96E+00	-0.250563507	4	1.71E+00
1.12E+00	-0.156906088	1	8.05E-01
2.34E+12	-2	24	7.70E+09
1.49E+00	0.415401086	4	2.21E-01
7.97E-03	1	8	1.33E-03
3.46E+00	0.867114802	6	2.97E-02
1.95E+00	-0.185196503	12	5.33E+00
4.97E-05	1	15	2.95E-05
1.03E-03	0.593684833	17	1.15E-02
2.54E+03	-2	8	1.86E+04
3.81E+00	-0.791898516	4	9.00E+00
1.21E+01	-0.521953599	6	7.45E+00
2.50E+00	-0.332341335	11	1.13E+01
5.53E-02	1	21	1.95E-05
7.49E-09	1	19	1.99E-06
1.15E+00	0.320209174	3	3.15E-01
3.19E+05	-2	9	3.87E+03
1.41E+02	-1	4	1.92E+01
1.23E+01	-0.510380605	10	2.50E+01
3.20E+01	-0.442662697	12	2.99E+01
1.22E+00	-0.503726692	2	1.99E+00
2.12E+01	-0.946559418	4	1.45E+01
2.20E+05	-0.933400494	9	1.75E+02
3.66E+01	0.941685315	4	4.39E-02
1.31E-02	2	3	1.27E-02
6.54E-03	1	5	2.24E-02
2.08E+05	-0.829097946	15	1.57E+03
8.53E-01	0.081703336	6	6.75E-01
4.93E-01	0.928123629	6	2.33E-02
6.55E-01	0.587028596	4	1.30E-01
6.23E+01	0.356571206	11	1.53E-01
2.87E+00	0.114488266	26	1.12E+00
3.83E+01	0.40123966	16	7.10E-02
1.39E-01	0.812647078	17	1.62E-03
1.40E+08	-1	13	6.56E+04
3.56E+01	-0.369346093	5	3.16E+00
1.43E+00	-0.287723189	2	1.25E+00
2.66E-01	-0.048446259	3	8.26E-01
4.74E-01	-0.024297375	1	6.42E-01

1.54E+00	-0.025373822	4	8.55E-01
1.10E+00	-0.598227016	2	2.44E+00
2.53E+00	-0.219445686	4	1.55E+00
5.29E+00	-0.108033881	6	1.44E+00
8.52E+01	-0.509141457	6	7.08E+00
9.31E-01	-0.753352659	7	2.86E+01
8.72E-01	-0.000296256	4	7.92E-01
1.25E+00	-0.137014698	5	1.39E+00
4.26E+01	-0.825069321	5	1.57E+01
4.75E-01	0.035621432	3	6.63E-01
9.03E-01	1	5	2.39E-02
8.31E-14	1	67	8.54E-18
5.37E+02	-0.783980074	7	3.27E+01
2.78E+00	-0.253190347	5	2.10E+00
6.71E-01	-0.152698202	5	1.47E+00
3.72E+00	-0.689652581	5	9.77E+00
4.13E+00	0.31889315	12	1.83E-01
2.15E+02	0.127266116	18	7.69E-01
1.46E-02	0.593562962	16	1.38E-02
1.77E-01	1	1	1.03E-01
6.68E-07	1	21	2.07E-06
8.02E+00	-1	1	4.82E+00
5.07E-01	-0.023723026	3	7.74E-01
3.48E-01	-0.329691068	6	3.47E+00
2.20E+00	0.092927139	2	5.47E-01
2.69E+02	-0.768866108	9	7.26E+01
2.63E+00	-0.318886479	7	4.17E+00
7.50E+02	-0.800355407	14	7.98E+02
3.11E+00	0.716858847	5	6.88E-02
2.69E+00	-0.464777438	7	7.96E+00
6.87E-01	0	1	6.16E-01
4.80E-01	0.04584823	2	6.06E-01
2.16E-01	0.243366531	6	3.55E-01
2.73E+02	-0.703875076	6	1.54E+01
5.70E+07	-1	19	1.95E+05
2.55E+06	-3	6	3.59E+04
3.88E+00	-3	1	4.61E+01
5.74E-01	0.785906451	10	1.38E-02
2.67E-32	3	46	2.35E-23
6.47E-05	1	10	5.06E-04
1.00E-01	0.612751949	6	8.18E-02
2.00E-02	2	6	2.10E-03
1.21E-01	0.521345415	8	8.67E-02
2.13E-02	0.107523772	12	7.51E-01
8.20E-03	1	15	2.08E-04
1.91E-01	1	4	1.98E-02
5.70E-01	0.011620818	5	8.25E-01

4.08E-01	0.325405271	2	3.31E-01
3.13E+02	-0.181460445	13	6.13E+00
3.08E+00	0.362677366	35	2.13E-02
6.43E-02	0.820214527	8	2.01E-02
5.60E-03	2	2	2.39E-02
2.82E-26	2	43	6.67E-18
1.57E-02	2	1	2.28E-02
4.82E-01	0.365990958	9	1.70E-01
4.32E-01	0.190317752	3	4.42E-01
1.10E-03	2	3	1.62E-03
4.48E-04	2	4	4.78E-04
9.18E-02	1	4	8.07E-03
1.04E+04	-1	11	1.06E+03
1.60E+02	-0.891470874	8	8.58E+01
8.08E-01	-0.340669765	1	1.10E+00
2.10E+00	-0.009975785	4	8.16E-01
7.78E+02	0.110158575	8	6.45E-01
1.10E+05	-2	9	2.05E+05
1.95E+01	-0.546035104	7	1.14E+01
6.77E-01	-0.207776414	3	1.25E+00
2.33E+00	-0.598302299	4	4.97E+00
1.28E+00	-0.157775566	4	1.28E+00
2.74E+01	-0.249844124	7	3.07E+00
1.99E+04	-1	10	4.18E+03
3.00E+04	-1	11	3.67E+03
1.33E+00	-0.3611156	3	1.87E+00
9.30E+00	-0.812653783	6	2.37E+01
2.67E+00	-0.262577441	6	2.66E+00
1.53E+06	-1	16	4.28E+05
2.37E+00	-0.609325489	4	5.14E+00
2.49E+00	-0.745815298	4	7.81E+00
4.34E-01	0	4	7.91E-01
6.03E-01	0	3	7.28E-01
2.90E-01	0.164688995	3	4.73E-01
8.88E-03	1	13	4.23E-04
3.50E-01	0.767371459	17	2.42E-03
9.83E-01	-0.109132612	1	7.42E-01
1.75E-01	0.423832929	20	3.80E-02
6.82E+09	-2	14	3.72E+05
2.78E+02	-0.93584598	6	3.86E+01
2.09E+01	-0.369567904	8	6.71E+00
5.38E-01	-0.003798283	5	8.71E-01
3.30E-01	-0.010013575	2	6.84E-01
3.38E+01	-0.875246122	6	3.03E+01
2.17E+00	-0.259702855	4	1.76E+00
1.43E+00	0.371825954	6	2.13E-01
2.52E-18	3	26	4.93E-16

1.35E-02	1	10	2.34E-03
2.64E+00	-0.0968457	3	9.37E-01
1.17E+00	-0.028712486	4	8.64E-01
1.89E+01	-0.316638544	14	2.02E+01
1.14E+06	-3	8	9.02E+05
1.73E+01	-2	2	2.71E+01
1.10E+02	-2	6	4.75E+02
4.93E+01	0.016078701	8	1.02E+00
6.78E-01	-0.104587651	1	7.36E-01
6.78E-01	-0.104587651	1	7.36E-01
2.70E-01	-0.196103061	6	2.04E+00
3.27E+01	-0.103432322	19	7.68E+00
2.11E+00	0.821154374	6	3.57E-02
5.73E+02	-1	16	2.38E+04
5.60E-01	-0.010956105	3	7.49E-01
3.36E+00	-0.124479321	5	1.33E+00
3.71E+01	-1	2	1.12E+01
6.89E+01	-1	3	1.65E+01
5.98E+01	-0.702229915	8	3.40E+01
1.25E+00	-0.114707736	7	1.69E+00
9.62E+00	-1	3	1.87E+01
6.06E+02	-2	4	1.36E+02
7.49E+03	-3	5	9.23E+03
2.22E+02	-2	3	3.46E+02
1.45E+01	-0.978791349	4	1.60E+01
3.05E-01	-0.090537716	3	9.22E-01
2.93E-03	0.819814592	13	4.79E-03
1.08E+03	-0.827793647	5	1.59E+01
1.03E+01	-1	1	7.44E+00
6.78E+01	-0.534116007	6	7.82E+00
1.00E+00	-0.257395919	1	9.57E-01
1.85E-04	0.982447932	13	1.50E-03
1.82E-01	0.416528883	14	7.70E-02
3.60E+01	-0.232435073	6	2.36E+00
1.32E-02	2	4	4.08E-03
5.68E-13	2	20	2.93E-11
5.29E-03	2	1	1.12E-02
3.95E+00	0.156318858	6	5.02E-01
4.14E+00	-0.583969175	6	9.53E+00
6.96E+02	-1	7	2.29E+02
6.66E-02	0.527387368	6	1.15E-01
1.83E-01	-0.176976908	4	1.36E+00
1.88E+00	0.169055286	7	4.81E-01
1.10E+00	-0.091987503	4	1.05E+00
4.29E-01	0	2	6.69E-01
5.80E+02	-0.384864339	27	9.69E+02
1.13E+11	-0.848425427	29	1.28E+06

3.27E+00	-0.879160561	4	1.18E+01
4.88E-01	0.299025681	10	2.31E-01
1.76E-01	0.962790543	10	4.96E-03
4.92E-01	0.49501198	3	1.99E-01
2.72E-01	-0.129417846	3	1.02E+00
2.07E+00	0.560466631	25	3.96E-03
3.85E-02	0.546557748	8	7.66E-02
1.40E+01	-0.607446796	7	1.50E+01
1.44E-01	0.342442135	2	3.19E-01
6.74E-02	0.553543892	11	4.49E-02
2.79E+01	-0.404260604	14	3.94E+01
3.34E-07	2	14	1.01E-07
6.64E-02	0.149726014	9	5.40E-01
2.40E+00	-0.529088245	6	7.66E+00
2.13E+01	-0.644392653	11	7.91E+01
3.00E-03	0.957152079	22	7.70E-05
7.72E-01	-0.066251199	4	9.69E-01
3.27E-02	0.98197363	7	1.31E-02
4.38E-01	0	1	6.16E-01
1.02E+00	-0.264986332	1	9.69E-01
1.75E+00	-0.274788296	2	1.21E+00
6.31E+00	-0.411092904	6	4.79E+00
4.81E+02	-0.011557302	21	3.71E+00
5.17E+00	-0.626860678	10	4.91E+01
2.29E+05	-1	13	1.02E+04
6.83E+05	-1	16	3.20E+04
2.06E+01	0.038792627	5	7.50E-01
5.85E+00	-0.749820726	16	1.27E+03
3.35E+00	-0.080043853	3	8.97E-01
1.08E+02	-0.067153542	8	1.53E+00
9.49E-01	0	3	7.28E-01
1.66E+01	-0.320571694	6	3.34E+00
3.81E+00	0.379709615	13	1.11E-01
4.86E+01	-0.284893165	13	1.28E+01
1.08E+00	-0.330880167	3	1.73E+00
7.08E+00	-0.266232615	9	4.97E+00
3.25E-08	2	19	4.02E-08
2.91E+00	-0.315948382	10	8.13E+00
7.98E+00	-0.533147405	8	1.49E+01
8.87E-03	0.480400593	15	4.14E-02
4.49E+03	-0.485666597	27	3.77E+03
1.38E+10	-2	17	1.38E+07
3.29E+05	-1	12	1.15E+04
2.72E+00	-0.549864798	6	8.32E+00
3.80E-08	1	41	2.45E-08
3.41E-01	-0.141798019	4	1.22E+00
4.26E-01	-0.023080379	1	6.40E-01

5.58E+01	-0.49069827	15	1.03E+02
1.02E+02	-0.822311731	15	1.49E+03
2.60E+00	-0.392374556	6	4.45E+00
2.38E+02	-0.025201942	12	1.83E+00
2.18E+00	-0.183471279	7	2.29E+00
1.59E+00	-0.184922023	5	1.65E+00
2.77E+01	-1	6	9.57E+01
4.13E+02	-1	4	4.93E+01
4.63E+00	-0.386074316	4	2.59E+00
1.51E+01	-0.152590449	4	1.26E+00
5.28E+00	0.868186802	12	4.62E-03
5.79E-02	0.255685248	20	2.15E-01
3.01E+00	0.09217454	7	6.76E-01
2.01E+00	-0.175011068	6	1.87E+00
4.86E-01	-0.015896905	3	7.58E-01
5.82E-01	-0.001886649	6	9.42E-01
1.01E+00	-0.263770661	3	1.45E+00
2.78E+00	-0.199693672	10	4.15E+00
3.75E+02	-0.860709628	8	7.38E+01
6.45E+00	-0.392830705	4	2.64E+00
1.06E+00	-0.13817865	9	2.51E+00
7.31E-01	0	3	7.28E-01
1.66E+00	-0.280191144	8	4.34E+00
8.18E+00	-0.503834968	7	9.46E+00
6.59E+02	-0.853147462	10	1.82E+02
2.29E+02	0.367724343	43	1.01E-02
1.90E-02	0.927390764	15	1.13E-03
3.67E-01	0.759861567	8	2.71E-02
6.00E-01	-0.10491943	2	8.40E-01
4.37E-01	-0.011823506	3	7.50E-01
1.94E+03	-0.50688103	13	6.28E+01
4.46E+01	-0.913198473	6	3.53E+01
4.32E+03	-1	5	1.27E+02
3.81E+00	-0.570434364	8	1.79E+01
5.25E+00	-0.205858055	6	2.12E+00
2.25E+00	0.246627291	6	3.51E-01
1.99E+01	-0.08516102	10	2.14E+00
1.16E+04	0.046752705	12	1.13E+00
3.50E+01	0.034784113	10	1.07E+00
6.70E+00	-0.851774114	6	2.76E+01
6.85E+04	-0.211327856	28	1.12E+02
8.34E-01	-0.324341788	4	2.14E+00
1.24E+01	-0.22729167	2	1.09E+00
3.45E+00	-0.446552449	10	1.73E+01
1.57E+05	-2	12	3.99E+05
1.82E+00	-0.233081823	7	2.85E+00
5.54E+01	0.208988137	7	4.03E-01

1.12E+02	-0.881745502	12	5.64E+02
9.61E+11	-3	17	1.35E+10
5.29E+01	-1	7	1.68E+02
6.45E-09	2	18	6.89E-07
3.90E-01	0.103561144	1	5.16E-01
6.88E-01	0.277326015	2	3.67E-01
2.34E-03	1	14	3.18E-04
9.96E+09	-0.592178992	67	2.04E+10
5.73E+09	-2	20	6.93E+10
3.97E+05	-0.955306762	10	3.29E+02
7.61E+02	-0.571999427	11	5.04E+01
1.96E+02	-1	6	3.35E+02
1.29E+01	-0.738199273	6	1.76E+01
7.10E+00	-0.455919926	3	2.40E+00
3.96E+01	-0.017303619	5	9.14E-01
2.61E+04	-1	6	8.73E+01
9.71E+02	-1	8	3.07E+02
2.20E+04	-0.844989278	11	2.77E+02
1.19E-01	-0.305177987	13	1.48E+01
6.03E-01	-0.177912736	4	1.37E+00
6.35E+01	-0.278400065	13	1.23E+01
3.39E-01	0.241328459	7	3.49E-01
2.92E-01	0.747997851	5	6.16E-02
1.15E-01	1	5	7.53E-03
5.76E+00	-0.107062347	16	5.36E+00
2.97E+00	-0.546609329	4	4.24E+00
6.85E+07	-2	17	1.40E+07
2.46E+00	-0.418992843	3	2.18E+00
4.39E+00	-0.52804781	4	4.00E+00
1.02E+00	-0.227748565	4	1.59E+00
1.79E+00	-0.621520689	2	2.57E+00
4.36E-01	-0.138106033	3	1.04E+00
1.01E+02	0.398498215	13	9.73E-02
6.49E-01	0.844555261	9	1.33E-02
1.32E-02	1	15	1.90E-04
3.15E+00	-0.739559362	1	2.18E+00
1.36E+01	-0.353444097	6	3.81E+00
4.59E+00	0.212351114	15	3.59E-01
1.34E-22	2	47	1.83E-18
3.58E-04	1	17	4.27E-06
2.72E-19	2	39	3.51E-16
3.06E+00	0.662721542	9	3.50E-02
1.06E+00	-0.272141299	7	3.39E+00
5.05E-01	-0.022597411	3	7.72E-01
1.28E+00	0.637772812	6	7.40E-02
9.91E+01	0.652746159	14	1.28E-02
2.62E-01	0.381139832	10	1.44E-01

8.04E-01	0.906790607	5	3.52E-02
5.43E-01	0.799042608	4	6.80E-02
1.45E-02	1	7	5.48E-03
1.27E-02	2	3	5.01E-03
6.21E+01	-0.604704633	8	2.12E+01
6.84E+02	-1	4	3.19E+01
1.22E+00	-0.301381087	4	2.00E+00
3.09E-08	2	12	5.67E-06
4.34E-06	2	10	1.10E-06
7.63E+01	-2	3	2.19E+02
1.42E+00	-0.268420069	6	2.72E+00
1.73E+00	-0.152011113	3	1.08E+00
1.07E+02	-0.676169408	8	3.00E+01
2.03E+01	-1	4	6.90E+01
4.02E+01	-1	5	5.43E+01
5.80E-01	0	3	7.28E-01
1.54E+01	-0.747310299	9	6.47E+01
3.13E+02	-0.500188706	6	6.83E+00
7.78E-02	0.733759954	5	6.48E-02
5.74E-01	2	4	3.09E-03
7.69E-01	-0.035341916	3	7.98E-01
1.72E+02	-0.913372605	10	2.58E+02
5.10E-01	-0.455706189	7	7.65E+00
3.79E-01	-0.115907701	3	9.85E-01
3.97E-01	0.068641838	2	5.77E-01
9.85E-02	0.842318336	4	5.95E-02
7.56E-03	2	5	2.38E-03
1.34E-05	2	10	4.93E-06
1.24E+05	-0.485278848	22	8.24E+02
6.37E-03	1	8	2.55E-03
7.19E-01	0.609171394	6	8.29E-02
1.06E+14	-0.84164701	50	2.01E+10
4.46E+01	-0.732523163	11	1.37E+02
8.46E-01	-0.281654127	2	1.23E+00
6.31E-01	-0.147636891	3	1.07E+00
8.96E-01	-0.124853874	4	1.16E+00
2.09E+00	0.200946031	6	4.20E-01
4.24E-07	2	8	1.36E-05
3.09E-01	0.308127276	1	3.63E-01
7.87E-04	2	12	4.35E-06
1.07E+01	-0.050718258	11	1.95E+00
5.41E-01	0.085316167	1	5.32E-01
1.54E+00	0.180084513	4	4.55E-01
5.84E+00	-0.110243551	2	8.50E-01
3.83E+01	-1	5	6.65E+01
2.87E+01	-0.900845572	4	1.26E+01
9.71E+01	-1	6	7.19E+01

4.67E+00	-0.550642767	5	5.98E+00
9.39E-01	-0.249302434	2	1.15E+00
6.45E-01	-0.145247494	2	9.17E-01
4.51E-01	-0.02847089	1	6.46E-01
3.24E+01	0.25670023	2	3.84E-01
3.16E+00	0.408143195	3	2.50E-01
5.39E-01	-0.134430718	1	7.75E-01
4.28E+01	-1	3	3.33E+01
1.71E+01	-0.783345803	3	5.66E+00
1.57E-01	0.364475612	14	1.14E-01
1.17E-03	0.232666094	10	3.40E-01
3.26E+02	-0.648145465	15	3.66E+02
5.22E+08	-0.72534585	40	2.02E+07
1.67E+01	-0.246630842	9	4.48E+00
3.34E+06	-2	8	1.47E+05
9.86E+01	-0.356826369	22	1.95E+02
3.92E+09	-0.050526093	39	3.83E+01
9.22E-01	0.570703815	6	9.66E-02
7.15E-03	0.786264117	22	5.24E-04
9.50E-02	0.667915314	4	1.02E-01
6.06E-01	0.093173247	7	6.73E-01
9.31E-02	1	8	5.60E-03
2.07E+00	0.454823005	2	2.50E-01
1.62E+01	0.256278045	7	3.27E-01
2.19E+01	-0.439002578	13	3.86E+01
1.39E+02	-0.26080449	18	2.96E+01
5.40E-01	0.251077518	4	3.66E-01
1.85E+01	-0.143689185	9	2.58E+00
8.44E-01	-0.665354179	1	1.92E+00
1.28E+00	-0.088467619	3	9.17E-01
2.42E+01	-1	6	2.51E+02
7.83E+02	-1	8	1.27E+03
6.78E+02	-0.671316275	9	4.31E+01
4.20E-01	-0.000711334	3	7.29E-01
5.55E-01	-0.031677118	3	7.90E-01
1.62E+00	-0.18056112	6	1.92E+00
5.71E-06	3	6	6.13E-06
5.39E-02	1	4	3.06E-02
1.35E+00	-0.332071033	3	1.74E+00
4.95E+02	-0.533510347	12	5.48E+01
2.83E-01	0.457930649	5	1.71E-01
2.80E+00	-0.597143885	5	7.05E+00
1.98E+10	-1	47	1.83E+13
9.49E+02	-0.445495096	7	7.31E+00
2.54E+02	-2	9	4.65E+04
2.16E+05	-1	16	8.02E+04
2.23E-03	1	12	7.13E-04

1.23E+00	-0.132337398	9	2.43E+00
1.47E+02	0.251062172	11	2.96E-01
1.97E+00	0.227629517	5	3.86E-01
8.54E-01	0.874957106	12	4.42E-03
9.95E-03	1	5	8.86E-03
3.54E-01	1	15	1.08E-04
4.34E-01	0	1	6.16E-01
1.82E+00	0.272458858	5	3.29E-01
4.96E-01	0.04345395	2	6.09E-01
2.67E-07	2	11	1.53E-06
3.81E-01	0.144223083	1	4.81E-01
1.60E+00	-0.233955992	4	1.62E+00
1.08E+01	-0.502136316	5	5.04E+00
6.69E-01	-0.300447041	6	3.09E+00
4.11E-01	-0.2125884	4	1.52E+00
8.49E-01	-0.191867386	4	1.43E+00
4.80E+02	-0.737677487	15	7.53E+02
2.76E-05	1	14	3.99E-05
3.49E-01	0.174851256	8	4.70E-01
4.46E-01	-0.033424134	1	6.52E-01
9.34E-01	-0.130819168	4	1.18E+00
6.27E-01	-0.176389545	7	2.22E+00
1.57E+00	-0.10343704	4	1.09E+00
4.40E-01	-0.17584546	2	9.79E-01
1.10E+00	-0.268524895	4	1.80E+00
2.05E+04	-1	13	9.28E+03
7.03E-02	0.73166962	5	6.53E-02
4.18E-02	0.691168809	11	1.90E-02
8.72E+02	-0.575016604	13	1.02E+02
9.91E+00	0.098889284	4	5.84E-01
2.11E-02	0.798179021	10	1.29E-02
1.27E+00	0.459904283	8	1.17E-01
4.30E+00	0.881626201	7	2.05E-02
1.20E-01	0.302692548	8	2.52E-01
1.32E+00	-0.161711977	4	1.30E+00
1.18E+01	-0.683034125	13	2.21E+02
7.74E-10	2	21	2.83E-09
6.08E-02	2	7	3.87E-04
9.25E+00	1	5	1.01E-02
5.73E+00	0.030084299	6	8.29E-01
8.32E-02	0.64719269	4	1.08E-01
1.69E-03	2	5	1.44E-04
3.50E+00	0.395070338	4	2.35E-01
2.51E+00	0.034196212	2	6.21E-01
2.32E+05	-1	6	3.20E+02
2.56E+01	-1	3	1.50E+01
4.99E+01	-0.616518156	6	1.08E+01

2.89E+04	-1	9	7.48E+02
1.41E+01	-0.575938802	5	6.54E+00
5.72E+04	-0.363185529	15	3.69E+01
4.28E+01	-0.261450638	5	2.16E+00
1.06E+00	0.35588548	2	3.10E-01
3.05E+03	0.347833326	12	1.50E-01
1.91E+00	-0.038797261	9	1.48E+00
8.69E+00	-0.778202353	5	1.33E+01
5.07E-03	2	8	3.15E-04
6.10E-08	3	7	5.40E-07
9.73E-01	0.027238619	7	9.01E-01
5.39E-01	-0.045587213	3	8.20E-01
4.31E-05	2	6	1.08E-04
4.05E+04	-0.943252383	16	6.56E+03
4.51E+00	-0.14506796	11	3.51E+00
3.26E+02	-1	8	1.92E+02
2.14E+01	-0.239910018	6	2.43E+00
1.00E+00	-0.201783536	9	3.52E+00
5.46E-01	-0.331539619	3	1.73E+00
1.17E+00	0.552304648	1	2.39E-01
3.57E+00	0.300026838	2	3.49E-01
4.08E-01	0.03477146	4	7.11E-01
1.94E+03	-2	7	1.01E+04
3.50E+01	-2	5	4.19E+02
5.08E-01	-0.179518143	3	1.16E+00
9.95E+02	-2	4	2.15E+02
7.68E+05	-2	14	1.03E+07
4.87E+02	-0.957761623	11	5.59E+02
3.74E+00	-0.502452146	5	5.05E+00
8.31E+06	-1	11	7.74E+03
1.71E+04	-0.174633085	16	9.51E+00
1.96E+04	-2	5	1.92E+03
1.81E+06	-2	8	1.57E+04
2.20E+03	-1	5	3.71E+01
1.57E+03	-1	7	8.74E+01
4.02E+06	-2	10	3.16E+05
3.26E+01	-0.859139885	5	1.77E+01
4.38E-01	0.382051073	11	1.31E-01
4.86E+03	-0.128521482	43	2.95E+02
1.27E-01	-0.040646184	5	9.92E-01
5.90E-01	0.047923102	3	6.42E-01
7.71E+00	-0.668787585	5	9.07E+00
4.78E-01	-0.041655787	1	6.61E-01
1.34E+00	0.305265243	7	2.63E-01
9.92E+01	-0.890329569	5	1.98E+01
1.22E+01	-0.372132874	11	1.45E+01
8.55E-01	-0.012304362	6	9.82E-01

5.52E-01	-0.139775771	3	1.05E+00
5.27E+10	-1	30	1.28E+08
3.06E+03	-2	6	1.52E+03
8.57E+02	-0.326486195	10	8.64E+00
4.20E-01	0	3	7.28E-01
2.08E+00	-0.164578333	3	1.12E+00
3.90E+02	-0.675532233	13	2.09E+02
1.07E+01	-0.933857732	4	1.39E+01
9.11E+00	-0.195962713	5	1.72E+00
1.14E+01	-0.624305717	4	5.38E+00
1.13E+01	-0.69738925	4	6.73E+00
7.01E+06	-3	8	2.26E+05
7.12E+00	-0.230903497	4	1.61E+00
1.24E+03	-1	9	2.53E+02
3.70E+03	-0.975636828	8	1.29E+02
3.72E-04	3	3	2.80E-04
7.75E-03	2	3	8.05E-03
4.24E+01	-0.446015311	13	4.06E+01
2.01E-13	2	26	5.16E-14
3.88E-05	2	5	1.83E-03
5.94E-03	0.9257473	17	5.87E-04
1.23E+00	0.190223262	2	4.43E-01
2.08E+00	-0.320597517	10	8.35E+00
5.44E+00	-0.417471264	6	4.92E+00
3.93E+04	-1	14	6.95E+03
6.47E+03	-0.719049411	34	1.54E+06
4.64E+00	-0.720128312	7	2.47E+01
1.22E+00	0.0378508	7	8.59E-01
6.93E-03	2	8	5.88E-04
3.36E+04	-0.419020696	19	1.73E+02
2.47E+03	-0.49686011	26	3.22E+03
5.54E+01	-0.174335456	20	1.82E+01
1.69E+01	-0.077665181	7	1.43E+00
1.07E-01	-0.174348425	9	3.04E+00
7.70E-01	0.004303515	5	8.47E-01
1.51E+09	0.477369415	59	1.24E-04
1.54E+00	-0.018152591	4	8.36E-01
4.05E+02	0.069134194	7	7.48E-01
2.34E+00	-0.41319799	6	4.83E+00
5.70E-01	0.039589905	2	6.14E-01
3.46E-01	0.311756838	5	2.87E-01
2.47E-03	1	11	1.34E-03
1.53E-03	1	10	5.98E-04
2.75E+03	-0.592849037	14	1.65E+02
6.28E+00	-0.278943148	6	2.83E+00
1.46E+02	0.302221902	20	1.33E-01
9.01E-02	1	5	1.64E-02

2.57E-01	0.078612667	12	9.12E-01
4.11E-01	-0.021348875	2	7.01E-01
1.82E+06	-0.530526833	36	1.27E+05
4.19E+00	-0.191019024	23	3.60E+01
1.29E+01	-0.595439419	18	6.91E+02
7.18E+00	0.594847344	4	1.27E-01
3.09E+00	0.541114379	5	1.28E-01
4.00E+02	-0.144558837	14	5.47E+00
4.84E+01	-0.374451536	9	8.85E+00
8.39E+12	-0.939423467	44	9.80E+09
9.28E+01	-1	7	3.58E+02
7.46E+06	-2	10	2.05E+05
9.95E+02	-0.873331059	5	1.87E+01
9.23E+00	0.417742806	23	2.95E-02
3.59E-05	2	8	9.18E-05
2.52E+01	-0.704052548	6	1.54E+01
8.51E-01	0.058899416	6	7.40E-01
3.34E+01	-0.059475933	11	2.06E+00
1.79E+01	-0.522844223	9	1.95E+01
3.47E+06	-4	8	1.08E+08
6.11E+03	-2	10	5.49E+05
4.95E-01	0.301315061	5	2.97E-01
2.78E-01	-0.115022983	4	1.13E+00
6.54E-01	0.319084054	82	2.56E-03
7.11E+06	-0.128821026	25	2.31E+01
1.27E+04	-1	12	3.59E+03
8.39E-05	1	26	3.49E-07
8.67E-04	1	8	3.52E-03
1.08E+00	1	5	1.53E-02
5.62E-01	0.132931931	4	5.26E-01
9.59E-01	0	3	7.28E-01
2.00E+01	-0.547419982	9	2.23E+01
1.47E-01	-0.092075634	14	3.67E+00
1.72E+01	-0.678540366	7	2.05E+01
6.65E+02	-0.497502673	9	1.71E+01
2.21E+00	0.322530424	5	2.76E-01
1.09E-02	2	6	1.60E-03
5.22E-02	0.823308408	10	1.11E-02
3.89E-02	0.829550268	4	6.19E-02
2.03E-07	1	18	4.77E-06
3.20E+02	-0.473780496	7	8.28E+00
2.42E-01	0.15785515	19	5.84E-01
4.80E+00	-1	3	2.58E+01
1.97E-02	0.368598974	9	1.68E-01
6.21E+00	-0.314384444	8	5.13E+00
2.19E-01	0.486118941	11	6.83E-02
5.83E-31	2	57	8.23E-23

1.51E-12	3	14	8.52E-09
9.87E-12	2	29	1.07E-09
1.66E+01	0.452054253	17	4.09E-02
1.55E+01	0.185121657	17	4.46E-01
1.04E+00	0.263798596	12	2.64E-01
3.09E+01	-0.933664299	8	1.05E+02
2.45E+01	-0.074278222	15	3.60E+00
3.33E-01	0.614164701	10	3.73E-02
2.96E-01	-0.336452712	3	1.76E+00
2.84E+04	-0.468808221	12	3.56E+01
4.43E-01	-0.013645212	3	7.54E-01
1.87E+00	-0.119241774	6	1.50E+00
1.33E+00	-0.388453151	4	2.61E+00
3.26E-01	-0.0139743	7	1.08E+00
8.42E-01	-0.18932294	5	1.68E+00
8.82E+03	-0.841630706	9	1.07E+02
7.62E-01	-0.126922667	3	1.01E+00
6.51E+00	-0.399669643	7	5.97E+00
5.93E+04	-0.075147221	12	2.55E+00
3.36E-01	-0.366495296	5	3.13E+00
5.92E-01	-0.138879712	7	1.88E+00
2.23E-01	0.51774455	9	7.59E-02
1.78E+05	-1	9	2.66E+03
2.42E-01	0.627794042	5	9.41E-02
1.84E-03	2	5	1.27E-03
2.11E+02	-0.877319733	8	8.00E+01
7.78E-01	-0.048114517	2	7.43E-01
2.57E+02	-0.572251177	9	2.54E+01
2.90E+00	-0.101648688	5	1.23E+00
5.70E+02	-0.619135883	13	1.40E+02
4.92E+04	-0.867486274	18	8.93E+03
5.13E+02	-0.716967172	12	1.87E+02
2.19E+04	-0.576096903	22	2.28E+03
4.88E+02	-1	5	6.61E+01
4.58E-01	-0.048997174	2	7.44E-01
8.25E+00	-0.067265916	24	9.50E+00
2.75E+02	-0.323996309	10	8.51E+00
2.09E+00	0.152385527	7	5.17E-01
6.51E+00	-0.011312388	6	9.78E-01
1.39E+02	-0.628314611	9	3.43E+01
4.36E+01	0.750566377	8	2.83E-02
1.05E+00	0.229012526	9	3.54E-01
2.45E+02	-2	5	6.85E+02
4.63E+02	-3	3	5.84E+02
7.82E-02	2	3	1.29E-02
1.77E-02	1	9	2.71E-03
1.25E+06	-0.574618448	43	3.06E+06

1.44E+00	-0.326790429	4	2.16E+00
7.40E-01	-0.533072185	5	5.63E+00
6.59E-06	1	42	1.81E-08
1.01E+23	-2	49	1.61E+21
5.20E+00	-0.068214422	2	7.76E-01
4.66E+01	-0.401140696	13	2.95E+01
1.64E+00	-0.371531199	2	1.50E+00
1.19E+04	-0.323491488	18	5.35E+01
7.65E+03	-1	7	5.34E+02
1.83E+05	-2	8	3.84E+04
2.07E+01	-0.911610004	4	1.30E+01
1.36E+01	-0.468057586	7	8.08E+00
1.88E+01	-0.832690461	6	2.56E+01
7.21E+03	-1	9	2.57E+03
4.19E+02	-1	6	9.85E+01
3.64E+05	-1	14	6.38E+03
1.85E+01	-1	6	5.83E+01
1.34E+04	-0.155780264	16	8.11E+00
5.18E-04	3	4	1.38E-04
7.75E-03	0.358003267	4	2.63E-01
7.77E-02	0.558477996	12	3.67E-02
1.60E+00	1	9	4.95E-03
2.97E+02	-0.802545869	8	5.56E+01
1.07E-08	1	20	1.44E-06
3.25E-03	2	1	1.82E-02
1.45E-01	1	2	3.72E-02
1.74E-06	3	6	1.91E-05
2.84E-01	1	7	6.04E-03
2.04E-01	1	3	2.27E-02
2.72E-02	1	5	1.78E-02
7.11E-15	2	36	5.02E-13
9.56E-01	-0.933385893	5	2.31E+01
1.65E+00	-0.113596474	4	1.12E+00
1.69E+02	-0.29226942	9	5.71E+00
1.46E-01	1	4	1.73E-02
6.14E+03	-0.821853343	18	5.82E+03
6.03E+00	-0.400519951	3	2.08E+00
1.44E+11	-1	26	6.23E+08
1.70E+03	-3	5	5.99E+03
4.91E+00	-0.378657537	4	2.53E+00
5.20E+00	-0.988138972	4	1.64E+01
9.37E+00	-0.250742245	3	1.40E+00
5.74E-01	-0.258060261	2	1.17E+00
4.86E+02	-0.418641283	23	5.13E+02
4.15E+01	-0.312446242	3	1.65E+00
2.00E+00	0.22808564	5	3.85E-01
6.61E-01	-0.142962617	1	7.86E-01

2.20E-01	-0.640546201	5	8.21E+00
1.33E+00	-0.83713494	5	1.64E+01
1.69E+01	0.258912716	5	3.45E-01
2.14E+02	-0.257961918	6	2.61E+00
2.42E+03	-1	7	3.49E+02
7.65E+01	-0.462338349	4	3.27E+00
3.00E+04	-3	3	4.07E+03
4.55E+01	-0.090539184	6	1.34E+00
2.50E+02	-1	5	3.95E+01
1.79E+01	0.047793481	6	7.73E-01
7.71E+00	-0.136790609	4	1.20E+00
1.98E+01	0.284471585	7	2.88E-01
2.38E+02	-0.41269538	9	1.09E+01
1.49E+00	-0.620732899	3	3.70E+00
2.68E+00	-0.601994416	5	7.17E+00
1.80E+06	-2	14	2.50E+05
6.56E+02	-0.856447363	9	1.16E+02
5.42E+04	-0.92922772	14	2.12E+03
2.06E+02	-0.272792406	7	3.40E+00
7.44E-01	0.054652898	4	6.69E-01
2.48E-08	2	26	1.02E-08
7.93E-18	2	31	4.51E-16
1.02E-07	2	21	1.42E-08
5.75E+15	-2	29	8.49E+11
7.35E+03	-0.916249331	7	5.88E+01
3.10E+03	-0.505535074	21	7.57E+02
2.73E+00	0.426528214	5	1.91E-01
5.98E-03	0.787782605	20	8.90E-04
1.11E-06	1	24	5.33E-06
2.65E-02	1	7	1.21E-02
1.21E+00	-0.696454028	3	4.51E+00
1.96E+00	-0.412264097	4	2.80E+00
3.51E+03	-1	8	3.03E+02
4.75E+03	-1	9	1.26E+03
1.77E+00	0.040898636	5	7.44E-01
7.31E-01	-0.51704232	5	5.32E+00
5.61E-05	3	5	2.19E-05
5.71E+01	0.479275698	4	1.82E-01
2.42E-01	0.39512093	4	2.35E-01
4.21E-01	0.402863203	8	1.55E-01
9.72E-01	0.589128654	6	8.98E-02
5.65E-01	0.152764793	5	5.02E-01
4.48E-01	-0.085603149	2	8.06E-01
2.64E+00	0.068015078	22	1.66E+00
3.98E+01	-1	6	2.00E+02
1.43E+01	-1	6	1.40E+02
5.43E-01	-1	5	5.84E+01

5.57E-03	0.707161562	23	1.01E-03
1.47E-07	2	15	2.80E-07
5.43E-02	1	3	2.15E-02
7.63E-04	0.762626971	24	4.05E-04
4.52E-01	0.106606008	2	5.31E-01
1.11E+01	-2	3	1.03E+02
4.22E+03	-2	5	6.67E+02
4.99E+17	-0.982532489	61	1.94E+14
3.96E+01	-2	4	1.17E+02
4.96E+01	-0.151010079	3	1.08E+00
1.60E+02	-0.694371904	4	6.67E+00
5.19E-01	0	5	8.60E-01
5.54E-01	-0.122531498	3	1.00E+00
1.95E+00	-0.236812882	5	1.98E+00
8.74E-01	-0.053299587	3	8.36E-01
2.07E+00	-0.323007373	3	1.69E+00
1.05E+01	0.687409295	32	1.63E-04
5.41E-01	0.05543852	6	7.50E-01
5.82E-02	0.829742968	7	2.58E-02
5.50E-01	0.589149833	4	1.30E-01
2.08E+01	-0.629402415	3	3.78E+00
3.33E+03	-2	7	1.53E+04
5.68E-01	-0.011063908	2	6.85E-01
3.66E+08	-0.660866452	41	8.51E+06
7.74E-01	-0.306392844	5	2.53E+00
4.75E-01	0.07173594	2	5.73E-01
8.09E-12	1	26	3.53E-08
3.19E-03	0.884444261	15	1.60E-03
4.94E+00	0.191671378	7	4.35E-01
4.49E-01	-0.014755132	1	6.31E-01
5.67E-01	0	4	7.91E-01
5.02E-01	-0.045831387	8	1.38E+00
5.42E-01	-0.062844079	4	9.59E-01
5.55E+00	-0.231259087	7	2.83E+00
2.74E+00	0.199830247	5	4.25E-01
4.27E-01	0.067275553	1	5.49E-01
4.27E-01	0.067275553	1	5.49E-01
4.11E-01	0.045066979	3	6.47E-01
8.69E-01	0.056557434	5	7.04E-01
5.63E+04	-2	8	2.24E+03
3.18E+04	-1	8	1.27E+03
2.46E+03	-1	13	3.70E+03
9.23E-01	-0.196660488	3	1.22E+00
4.93E-01	-0.083578339	3	9.05E-01
1.47E-01	0.563862117	7	8.36E-02
7.24E-01	-0.508829917	5	5.16E+00
4.26E-01	-0.104347336	4	1.09E+00

7.27E-01	-0.249208383	2	1.15E+00
4.45E+00	-0.671786366	9	4.32E+01
3.53E+01	-0.769656238	11	1.73E+02
1.39E+00	-0.080291747	4	1.01E+00
8.49E-01	0.443924015	7	1.42E-01
1.14E-05	0.601879806	30	9.15E-04
2.57E+03	-1	6	1.16E+02
2.03E+02	-0.296251068	32	8.71E+02
5.30E+00	-1	3	1.99E+01
3.76E+01	-0.545109037	11	4.26E+01
2.47E+02	-1	5	5.65E+01
9.07E-01	-0.174575169	5	1.59E+00
1.92E+01	-0.077076299	9	1.81E+00
3.23E+02	-0.688275914	9	4.72E+01
1.17E+02	-0.800720391	13	5.12E+02
8.37E+03	-1	9	3.51E+02
4.17E-01	0	4	7.91E-01
1.42E+00	0	4	7.91E-01
4.38E-01	-0.047758623	5	1.02E+00
4.53E-01	0.170454459	1	4.60E-01
4.75E-01	0.791101957	2	1.21E-01
4.57E-09	3	9	3.32E-08
2.67E+00	0.204125558	16	3.80E-01
7.53E+04	-0.061899802	15	3.26E+00
2.43E+01	-0.4090896	9	1.06E+01
4.16E+01	-0.138995003	12	3.91E+00
6.34E+04	-0.666542087	13	1.96E+02
5.49E+04	-0.884197944	12	5.73E+02
7.82E+00	-0.629216766	6	1.14E+01
2.02E+02	0.095278142	15	9.20E-01
1.20E+00	-0.126467161	7	1.78E+00
2.24E+00	0.180642304	5	4.55E-01
4.56E+05	-0.615604802	13	1.36E+02
6.26E+05	-0.635451999	16	4.79E+02
2.05E+04	-1	12	5.00E+03
6.28E-05	2	11	4.03E-06
8.77E+00	0.249407892	3	3.79E-01
1.02E+02	-0.049149595	5	1.02E+00
5.35E-01	-0.00837303	3	7.44E-01
3.05E+04	-0.556646727	30	2.69E+04
1.76E+01	-0.409463368	6	4.76E+00
8.87E+00	-0.813731863	5	1.51E+01
3.96E+01	-0.256106449	12	8.57E+00
1.47E+00	-0.043916325	8	1.37E+00
9.88E+00	-0.02557554	7	1.14E+00
6.26E-01	-0.060852548	5	1.07E+00
4.14E-01	-0.000884425	4	7.93E-01

9.24E-01	-0.102142243	6	1.40E+00
3.90E+00	-0.093946215	6	1.36E+00
3.44E+00	0.501691306	7	1.10E-01
6.09E-02	0.539919958	23	7.08E-03
4.21E-01	0.556368351	2	2.01E-01
1.42E+00	0.5632099	3	1.67E-01
6.06E-01	1	2	6.44E-02
6.50E-02	2	5	1.27E-03
4.00E-01	0.288318217	18	1.69E-01
1.28E+02	-0.436728289	6	5.31E+00
2.21E+00	-0.520687746	4	3.91E+00
1.44E-01	0.704134463	8	3.55E-02
6.91E+00	0.454538203	3	2.21E-01
2.71E+00	0.251232963	8	3.24E-01
2.71E-03	1	14	9.87E-05
8.93E-01	-0.092564818	29	2.42E+01
2.49E+00	0.092694321	9	7.32E-01
2.45E+00	-0.83773332	2	4.11E+00
4.08E+00	-0.709799589	7	2.36E+01
1.04E+00	-0.245418389	4	1.68E+00
9.71E+00	-0.650111821	4	5.82E+00
1.21E+00	1	6	8.37E-03
8.19E-09	3	17	2.06E-11
9.44E-05	2	11	4.69E-06
5.61E-01	-0.044893307	7	1.24E+00
1.27E+00	-0.063772091	6	1.20E+00
6.68E+01	0.574565734	52	2.82E-05
1.50E+00	-0.070526139	3	8.75E-01
2.40E+01	-0.496191443	4	3.63E+00
1.54E+02	-0.317178097	6	3.30E+00
8.65E-05	1	24	1.80E-06
1.12E-02	1	11	1.38E-04
3.03E-02	2	5	2.60E-03
2.41E-01	1	1	9.94E-02
3.50E+01	-0.587525531	14	1.58E+02
7.64E+00	-0.033488465	4	8.77E-01
4.23E+01	0.230500404	18	2.91E-01
5.13E+02	-0.524747854	28	8.81E+03
4.98E-01	-0.057527238	4	9.44E-01
9.45E-01	-0.671533885	6	1.35E+01
5.09E+02	-0.864995316	6	2.91E+01
2.22E-16	2	30	1.32E-13
1.21E+03	-0.930813046	18	1.62E+04
3.90E-13	2	26	7.97E-11
7.01E-01	0.163227852	3	4.75E-01
1.45E+04	0.454614443	8	1.20E-01
1.00E+00	-0.002156492	9	1.21E+00

5.98E+08	-0.408528433	47	2.86E+05
1.04E+09	-0.46925964	63	1.28E+08
2.54E+01	1	16	6.55E-05
8.52E-02	0.435604327	6	1.65E-01
2.72E+01	-0.27154344	10	6.28E+00
4.43E+00	0	6	9.35E-01
3.51E+01	-0.440419423	10	1.67E+01
8.20E-01	-0.223887689	3	1.31E+00
8.30E+06	-3	8	6.72E+05
2.05E+03	-0.732455286	10	9.05E+01
5.22E-06	1	10	1.65E-03
2.20E-02	3	2	1.81E-03
6.63E-01	0.18602597	9	4.45E-01
6.53E+00	-0.156208325	11	3.76E+00
4.42E-01	0	2	6.69E-01
1.20E+02	-0.798911959	12	3.24E+02
6.72E-01	0.150243831	4	4.99E-01
1.51E+00	-0.192323849	11	4.71E+00
1.95E+09	-0.344066609	51	1.75E+05
1.89E+00	0.065363276	1	5.50E-01
1.40E+02	-0.985911798	3	9.61E+00
1.83E+03	-0.478689058	12	3.80E+01
2.01E+00	0.134776645	5	5.35E-01
5.71E-01	-0.024330729	3	7.75E-01
2.79E+00	-0.01920204	5	9.20E-01
5.40E-02	0.900884647	12	3.71E-03
5.63E-01	-0.03700116	5	9.80E-01
1.54E+00	-0.001284993	5	8.64E-01
6.94E-01	-0.123277508	5	1.33E+00
4.46E+04	-1	17	9.83E+05
1.97E+00	-0.028218547	3	7.83E-01
1.67E+01	-0.7001323	8	3.37E+01
2.84E+01	0.100440889	10	7.30E-01
8.83E+01	-1	7	1.35E+02
9.68E+00	-0.337618446	7	4.53E+00
4.29E+01	-0.444572778	10	1.71E+01
2.48E-06	2	18	8.60E-08
6.44E-03	1	12	6.74E-05
1.68E+00	-0.525759435	4	3.97E+00
6.70E+00	-0.470939872	7	8.18E+00
9.25E+00	-0.448768317	2	1.77E+00
9.90E+01	-0.619399386	9	3.27E+01
4.04E+12	-0.812483041	38	4.44E+07
1.45E+06	-0.871182718	12	5.26E+02
7.52E+00	-0.309400806	6	3.20E+00
3.97E+02	-0.114609753	19	8.57E+00
6.13E+01	-0.564124906	6	8.81E+00

4.70E-01	0.457763896	4	1.94E-01
5.08E-01	0.045367234	8	8.85E-01
1.71E+00	-0.570894059	2	2.30E+00
6.11E-01	-0.360697507	2	1.46E+00
2.37E+02	-1	5	8.34E+01
4.12E+01	-0.870377065	4	1.15E+01
5.25E+00	-0.614225328	5	7.49E+00
3.56E+00	-0.015554997	3	7.58E-01
8.70E+00	-0.677961198	5	9.37E+00
1.31E+01	-1	5	7.21E+01
8.55E-01	-0.215809424	7	2.64E+00
2.01E+02	-0.142147278	12	3.99E+00
1.46E+00	-0.031756112	7	1.17E+00
5.84E-01	-0.077810528	2	7.92E-01
6.78E+00	-0.348377738	10	9.80E+00
1.16E+00	-0.004390733	5	8.73E-01
3.74E-01	0.131804869	2	5.03E-01
1.12E-02	0.772960169	6	4.32E-02
7.71E-01	0.301665653	3	3.30E-01
2.21E+00	0.840622354	12	5.56E-03
1.85E+00	-0.061722485	8	1.49E+00
3.36E+00	-1	2	6.06E+00
8.97E+02	-0.53311353	14	1.05E+02
2.80E-01	0.527633123	5	1.34E-01
6.37E-01	-0.026688792	7	1.14E+00
3.67E+00	-0.443280044	9	1.28E+01
2.11E+01	-0.352447897	9	7.87E+00
3.24E+00	-0.218076391	21	3.42E+01
1.37E+00	0.019007568	5	8.04E-01
3.24E+15	-0.948047377	49	1.53E+11
5.22E+00	-1	1	6.70E+00
1.94E+05	-0.361309943	13	2.22E+01
1.69E+00	0.011628593	12	1.43E+00
6.99E-03	0.997001109	8	8.50E-03
4.89E-14	3	16	2.24E-10
8.73E-02	0.879330994	5	3.88E-02
1.10E-01	1	10	6.17E-04
4.36E-01	0.749790982	6	4.74E-02
2.24E+00	-0.051888004	7	1.28E+00
4.66E+02	-0.262635041	9	4.88E+00
3.03E+01	-0.811194915	5	1.50E+01
8.28E-03	0.659387617	5	8.42E-02
1.94E-02	0.825044785	9	1.47E-02
1.67E+00	-0.482435578	7	8.61E+00
2.02E+03	-1	5	4.83E+01
4.54E+02	-0.617312459	6	1.09E+01
1.48E+01	-0.717257901	7	2.44E+01

8.17E+00	-1	1	4.44E+00
4.45E-01	-0.029879791	1	6.48E-01
4.45E-01	-0.029879791	1	6.48E-01
2.11E+00	-0.330798564	2	1.37E+00
4.10E+00	0.122596459	5	5.58E-01
2.26E+00	-0.149069637	7	1.97E+00
1.94E+00	-0.544185156	9	2.19E+01
1.17E+01	0.265291377	8	3.03E-01
8.59E-01	-0.129307623	2	8.85E-01
8.98E+00	-0.159243628	5	1.51E+00
1.08E+00	-0.308451874	4	2.04E+00
7.92E-02	0.651320746	3	1.32E-01
3.98E-02	-0.117557115	3	9.90E-01
4.81E-02	0.079935546	17	1.14E+00
4.49E-02	1	6	1.43E-02
4.36E-01	0.247005389	5	3.60E-01
6.25E+01	1	14	8.82E-04
8.03E+02	-0.464192163	13	4.63E+01
3.05E+03	-0.438224295	27	1.99E+03
1.36E-06	1	19	7.57E-06
1.35E-02	0.987106105	17	3.39E-04
7.03E-04	0.78125267	37	9.63E-06
1.39E+02	-0.420676556	12	2.58E+01
8.93E+00	-0.43827238	7	7.08E+00
8.96E+01	0.106794063	18	9.32E-01
8.95E-01	0.252357378	11	2.94E-01
2.52E-01	0.165013501	48	7.02E-01
8.92E+03	-0.666423687	23	9.25E+03
5.31E-01	-0.057533585	4	9.44E-01
2.42E+00	-0.158818596	5	1.50E+00
1.67E-01	0.00786603	9	1.15E+00
1.15E+08	-2	21	2.28E+08
1.95E+02	-0.18744103	10	3.86E+00
4.26E+00	-0.484050561	5	4.73E+00
4.70E+00	-0.400124334	12	2.25E+01
4.73E-01	-0.01368059	1	6.30E-01
9.85E+00	-0.606632077	7	1.49E+01
1.33E+00	-0.021670547	8	1.23E+00
2.29E+01	-0.261464502	7	3.24E+00
3.23E+02	-1	7	3.00E+02
3.14E+02	-1	7	2.77E+02
1.81E+00	0.95180866	5	3.01E-02
1.07E+00	0.150464209	5	5.06E-01
3.88E+00	0.23433758	7	3.60E-01
6.44E-01	-0.202542661	4	1.47E+00
7.67E+00	-0.792277169	6	2.18E+01
1.48E+03	-1	8	2.44E+02

3.62E+02	-2	4	9.19E+01
4.44E+00	0.507740785	8	9.26E-02
1.16E-02	0.856025515	10	9.21E-03
3.38E-03	0.774927332	30	7.01E-05
7.01E-01	0.223860768	8	3.70E-01
5.31E-04	0.904155327	21	1.93E-04
2.00E+00	0.416276489	20	4.11E-02
9.17E+01	-0.613897629	7	1.54E+01
1.21E+04	-0.91206834	10	2.56E+02
2.00E-03	0.472648594	21	2.02E-02
4.02E+00	0.338153355	8	2.12E-01
2.52E+00	-0.317423598	6	3.30E+00
2.64E+04	-2	9	1.01E+05
5.95E+01	-0.462501742	8	1.06E+01
4.73E-01	0.160752105	2	4.73E-01
2.83E-01	-0.475747316	1	1.39E+00
7.84E-01	-0.155837101	4	1.28E+00
5.71E-01	0	2	6.69E-01
4.20E-01	0	3	7.28E-01
4.87E-01	-0.02947491	1	6.47E-01
1.90E+06	-1	16	1.13E+04
9.05E+02	-2	6	5.60E+03
1.69E+01	-2	5	1.84E+02
1.23E+00	-0.406626033	3	2.11E+00
5.44E-01	-0.11847061	5	1.31E+00
8.10E+00	-0.535722153	6	7.87E+00
6.25E+00	-0.080869725	9	1.85E+00
1.82E+03	-0.70601501	11	1.16E+02
2.78E+00	-0.503995963	4	3.72E+00
2.44E+00	0.365366329	5	2.37E-01
1.51E-01	-0.138324529	6	1.62E+00
3.22E-03	0.267059373	8	3.00E-01
8.04E-01	0.828348324	3	8.32E-02
1.17E+01	0.757858775	3	1.00E-01
6.94E-02	0.88943696	16	1.12E-03
1.87E+00	-0.318697156	8	5.24E+00
4.30E-01	0.173468547	6	4.69E-01
4.26E-01	-0.009786884	2	6.84E-01
5.09E-01	-0.354743507	4	2.35E+00
1.52E-01	-0.061060795	5	1.07E+00
4.77E+00	0.129508173	6	5.59E-01
9.99E+01	-0.205048984	8	3.01E+00
2.58E+03	-0.727911431	14	4.60E+02
1.01E+02	-0.726325614	7	2.54E+01
7.36E-01	-0.209811741	3	1.26E+00
1.56E+00	-0.177540944	5	1.61E+00
3.10E+02	-0.051559655	8	1.42E+00

4.14E-01	-0.171089439	6	1.85E+00
2.89E+00	-0.00845652	6	9.67E-01
1.78E-01	-0.208562255	4	1.50E+00
1.46E+01	-0.164668362	10	3.39E+00
4.88E-01	-0.074120469	7	1.41E+00
2.95E+00	-0.413318037	6	4.84E+00
9.27E+01	-0.622223643	5	7.70E+00
7.49E-01	-0.299065951	6	3.07E+00
1.01E+00	-0.126491919	3	1.01E+00
9.27E-01	0.649434281	2	1.64E-01
1.37E-01	0.416058206	5	1.98E-01
2.30E+00	-0.026255667	7	1.14E+00
4.62E+00	-0.468724112	14	6.42E+01
7.75E-01	-0.113061222	4	1.12E+00
4.31E-01	0.297584271	6	2.86E-01
7.44E-01	0	2	6.69E-01
7.17E-01	-0.057435044	2	7.58E-01
3.02E-01	-0.014014462	25	5.45E+00
3.93E-01	-0.002144388	6	9.43E-01
8.89E+00	-0.183651799	7	2.29E+00
1.37E-01	-0.025395481	5	9.40E-01
1.08E-20	1	66	1.07E-18
7.45E-06	3	6	1.33E-05
8.65E-06	2	13	2.71E-05
2.44E-01	0.456192808	3	2.20E-01
5.39E-01	-0.128832724	2	8.85E-01
2.09E+00	-0.715734194	4	7.12E+00
9.98E-01	-0.475747316	1	1.39E+00
5.55E-01	-0.11632648	2	8.61E-01
1.29E+00	-0.21602389	2	1.07E+00
2.58E+00	-0.000354238	2	6.70E-01
5.39E+02	-2	7	2.59E+03
2.65E+00	0.783253996	2	1.23E-01
6.69E-01	0.704394074	13	1.09E-02
3.85E-01	0	7	1.02E+00
3.85E-01	0	7	1.02E+00
4.57E-01	-0.036544989	21	4.85E+00
2.49E-01	-0.068486982	17	4.33E+00
9.67E-01	-0.081984848	5	1.15E+00
1.21E+00	-0.261880158	9	4.86E+00
4.44E-01	0	2	6.69E-01
2.79E-01	0	5	8.60E-01
4.39E-01	-0.045953706	2	7.39E-01
4.20E-01	-0.15477885	3	1.09E+00
4.79E+00	-1	6	7.18E+01
8.19E-01	-0.05402889	2	7.52E-01
7.13E-01	-0.531502804	6	7.74E+00

6.60E-01	-0.554639418	6	8.48E+00
1.71E+02	-0.814508623	3	6.14E+00
2.58E+02	-1	6	1.87E+02
2.88E+01	-0.614766582	4	5.22E+00
1.22E+00	-0.148278868	3	1.07E+00
1.70E+00	-0.557769475	3	3.13E+00
5.20E+37	-2	50	1.01E+21
8.73E+02	-0.869992129	15	2.18E+03
3.03E-02	-0.170046441	6	1.84E+00
3.50E-28	2	73	2.81E-24
9.03E-03	2	1	2.71E-02
1.60E-03	-0.048772201	12	2.14E+00
1.85E+01	-0.901941197	6	3.37E+01
6.51E+04	-0.833676698	15	1.63E+03
2.26E+00	-0.521147296	6	7.42E+00
1.89E+02	-0.927482675	9	1.69E+02
9.85E-01	-0.230972207	5	1.94E+00
3.34E+00	0.093865177	7	6.70E-01
1.15E+01	-0.385136688	9	9.37E+00
9.01E+02	-0.196349571	25	5.40E+01
2.23E+00	0.204012455	7	4.12E-01
2.06E-01	-0.206139323	6	2.12E+00
7.87E-01	-0.794506313	8	5.34E+01
1.25E+04	-0.428745259	25	1.01E+03
1.75E-02	0.773572441	17	2.29E-03
7.19E-01	0.153892293	6	5.07E-01
6.05E-01	-0.00155554	6	9.41E-01
2.48E-03	2	5	2.40E-03
1.50E-01	0.856057091	31	1.55E-05
3.67E+00	-0.184413265	14	7.40E+00
5.26E-01	-0.46942937	7	8.13E+00
4.09E-01	0.030036439	6	8.29E-01
4.59E-01	0	1	6.16E-01
4.59E-01	0	1	6.16E-01
4.32E-01	-0.053220726	4	9.31E-01
4.29E-01	0	2	6.69E-01
9.76E-01	-0.01576621	3	7.58E-01
1.66E+01	-0.385815186	9	9.41E+00
3.34E+01	-0.040253414	6	1.10E+00
8.37E-01	-0.033435034	3	7.94E-01
8.24E-01	-0.120234599	4	1.14E+00
9.05E-01	-0.028074975	4	8.62E-01
9.22E+00	-1	3	3.28E+01
3.42E+06	-1	11	1.66E+03
4.40E+01	-2	6	1.94E+03
8.95E-01	-0.085132141	2	8.05E-01
1.61E+03	-0.704988952	10	7.72E+01

4.51E+01	-0.526515969	10	2.75E+01
4.21E+02	-2	6	4.11E+02
1.87E+00	-0.262486682	3	1.45E+00
3.22E+01	-0.240413963	10	5.25E+00
7.20E-01	0.042176762	3	6.51E-01
4.54E-01	-0.023180107	2	7.04E-01
9.27E-01	-0.093214391	2	8.19E-01
6.69E+00	-0.572870818	4	4.59E+00
3.05E+01	-0.181344569	14	7.23E+00
5.12E-01	-0.083044643	2	8.01E-01
4.29E-01	0	2	6.69E-01
3.17E-01	-0.00550762	2	6.77E-01
2.96E-01	-0.256380515	4	1.74E+00
1.19E+02	-0.457183998	7	7.70E+00
6.05E-01	-0.016987812	1	6.34E-01
8.13E-02	2	5	3.89E-03
3.61E-01	-0.318282748	4	2.10E+00
2.30E-03	1	5	1.58E-02
2.73E-02	1	6	9.86E-03
5.93E-01	-0.135296227	2	8.97E-01
9.94E-01	-0.041681378	4	8.99E-01
1.42E+00	-0.148720452	5	1.45E+00
3.94E-01	0.060886948	3	6.20E-01
1.10E+00	0.743102327	5	6.27E-02
3.80E+00	-0.498676509	5	4.98E+00
4.82E-01	0	3	7.28E-01
9.84E-01	0.019626035	4	7.45E-01
3.06E+03	-0.422431571	13	3.43E+01
1.24E-09	1	32	7.42E-10
5.21E-10	2	17	3.03E-08
1.07E-03	1	14	6.37E-04
8.14E-03	-0.293326317	7	3.73E+00
3.24E-01	0.394914677	4	2.35E-01
5.13E-02	0.314545017	12	1.88E-01
1.96E-04	1	9	1.57E-03
6.44E-01	0.72053331	5	6.79E-02
3.72E-01	0.052972421	3	6.33E-01
4.38E-01	-0.01648115	1	6.33E-01
1.33E-01	0.780225096	6	4.20E-02
2.06E-03	1	17	1.16E-05
3.63E-01	-0.422091338	3	2.20E+00
6.51E+00	-0.684552152	6	1.42E+01
1.53E+01	0.107413805	8	6.54E-01
3.92E-01	0.130428913	3	5.17E-01
2.23E-02	0.955591009	7	1.48E-02
3.21E+00	0.417784442	5	1.97E-01
7.88E-01	-0.230722316	7	2.82E+00

4.98E+01	-0.1604118	9	2.83E+00
4.18E+02	-0.303344675	8	4.86E+00
1.32E+00	0.441883152	19	3.54E-02
2.43E+00	0.128761166	10	6.20E-01
8.91E+00	0.096180748	11	7.79E-01
2.47E-02	0.810418254	13	5.12E-03
2.23E+02	-0.478792461	16	1.26E+02
9.44E+00	-0.913068779	13	1.14E+03
6.00E+01	-0.790141275	5	1.39E+01
2.11E+02	-2	3	3.10E+02
6.52E-02	-0.195999188	2	1.02E+00
1.22E+00	-0.066970889	4	9.71E-01
1.57E+03	-1	13	3.01E+03
2.93E+02	-1	6	2.98E+02
2.50E+00	-0.307695835	6	3.18E+00
1.54E+03	-1	9	1.41E+03
1.34E+01	-0.273355265	10	6.35E+00
8.84E-01	0.051294178	6	7.62E-01
5.05E-01	-0.045365891	1	6.65E-01
1.24E+03	-0.220993267	13	8.14E+00
2.94E+00	-0.176446292	3	1.15E+00
1.02E+00	0.503192603	2	2.25E-01
2.62E-01	0.405687968	7	1.68E-01
5.57E-01	-0.074709208	3	8.85E-01
2.92E+05	-0.854437769	25	2.13E+05
3.18E-01	0.112492709	4	5.60E-01
5.80E+00	-0.140078899	6	1.63E+00
6.90E+01	0.359640088	9	1.76E-01
8.85E-01	0.609525131	1	2.17E-01
4.44E-01	0.066494929	1	5.49E-01
2.95E+00	0.168027624	8	4.86E-01
3.34E+02	-0.088719411	30	2.59E+01
7.84E+00	-0.158738459	9	2.80E+00
1.84E-03	0.9726969	14	1.12E-03
2.16E+02	-0.149393445	18	1.04E+01
8.52E-01	-0.115296046	4	1.13E+00
7.89E+04	-1	11	1.17E+03
8.07E-01	-0.256077363	5	2.12E+00
1.45E+01	-0.301904594	9	6.01E+00
1.15E-08	1	40	4.92E-11
6.29E+03	-0.978282609	12	1.08E+03
1.93E+02	0.450748049	12	7.55E-02
2.98E-01	0.634455009	7	6.12E-02
1.99E-08	2	14	9.41E-07
1.23E+00	1	4	2.36E-02
5.48E-03	0.809632484	7	2.82E-02
6.79E-01	-0.037635389	4	8.88E-01

3.63E+04	0.222428395	27	2.69E-01
3.96E+01	-0.226896541	11	5.85E+00
1.51E+04	-0.410257432	7	6.25E+00
5.03E+00	-0.693393026	4	6.65E+00
1.17E+01	-0.381101374	2	1.53E+00
2.60E-05	2	18	5.30E-07
4.41E-10	2	25	9.22E-11
2.97E-02	0.342249043	15	1.26E-01
6.74E-01	-0.871663695	7	4.83E+01
2.26E+00	-0.528017578	5	5.53E+00
1.35E+01	-0.637765181	5	8.13E+00
1.63E-11	3	14	6.48E-09
1.17E-04	2	6	1.41E-04
4.37E-11	2	16	3.81E-08
2.81E-03	1	3	2.54E-02
2.58E-02	0.836174372	9	1.39E-02
1.41E-08	2	17	4.62E-07
2.39E-01	0.192629548	23	4.08E-01
9.86E+00	0.218426771	5	3.98E-01
1.62E+00	-0.637308392	5	8.12E+00
3.21E+02	-0.167651717	6	1.82E+00
8.40E+02	-1	7	1.22E+02
5.29E-01	-0.16304395	3	1.11E+00
1.81E+03	-1	6	1.40E+02
5.07E+00	0.085276515	5	6.37E-01
3.99E+00	-1	2	6.04E+00
3.84E+03	-3	3	1.58E+03
4.31E+02	-1	5	6.46E+01
1.17E+01	-0.799217734	7	3.50E+01
9.32E-01	-0.226695554	3	1.32E+00
3.92E+01	-0.692217712	10	7.17E+01
4.99E+01	-0.433592801	12	2.81E+01
7.62E-01	-0.257395919	1	9.57E-01
5.06E+00	0.29223195	18	1.63E-01
1.14E+01	-0.780003135	10	1.19E+02
1.83E+00	0.035610037	5	7.58E-01
1.58E+00	-0.071729486	3	8.78E-01
3.01E-01	-0.345548042	9	7.59E+00
5.96E+00	0.151273187	87	1.73E+00
2.82E+09	-2	14	3.24E+06
1.78E-02	0.099768475	14	8.54E-01
1.01E+00	-0.331733435	6	3.50E+00
1.55E-35	2	64	8.18E-29
1.07E+00	-0.395628284	17	8.10E+01
3.07E+02	-0.310033003	16	3.01E+01
3.36E+01	-0.374573632	9	8.86E+00
3.41E-01	0.922595373	4	4.65E-02

5.23E-05	2	7	1.61E-04
4.71E-01	0.366866353	1	3.28E-01
4.38E-01	0	1	6.16E-01
4.29E-01	0	2	6.69E-01
4.11E-01	0	4	7.91E-01
4.29E-01	0	2	6.69E-01
1.48E+00	0	3	7.28E-01
4.75E-01	0	1	6.16E-01
4.29E-01	0	2	6.69E-01
4.11E-01	0	4	7.91E-01
4.29E-01	0	2	6.69E-01
3.03E+00	-1	1	5.44E+00
1.50E+02	-0.670478393	9	4.29E+01
9.55E-01	-0.018392271	3	7.63E-01
2.81E+02	-0.630031796	11	7.24E+01
6.14E+02	-0.976302439	6	4.54E+01
2.17E+24	-1	61	2.07E+19
2.40E+11	-0.952668782	36	2.11E+08
4.12E-01	0.432577293	4	2.10E-01
5.69E-01	0.797629492	9	1.70E-02
3.29E-01	-0.00154085	3	7.30E-01
3.92E-01	-0.061357468	3	8.54E-01
2.02E-07	1	10	9.44E-04
1.13E+00	-0.049774656	7	1.27E+00
4.87E-01	-0.021555314	1	6.39E-01
3.44E-01	0.016006844	5	8.13E-01
4.29E-01	0	2	6.69E-01
4.29E-01	0.020892828	2	6.40E-01
4.63E-01	-0.008767005	2	6.82E-01
2.84E+01	-0.441029453	12	2.95E+01
1.14E+00	0.274402499	4	3.41E-01
2.31E+01	-0.240214	9	4.33E+00
3.33E+05	-2	12	7.66E+04
9.30E+10	-1	23	1.22E+07
9.84E-01	0.030332328	6	8.29E-01
6.27E+00	0.278280128	3	3.51E-01
7.81E+00	-0.738349693	8	4.06E+01
9.81E-01	-0.01026662	6	9.74E-01
2.42E-02	1	3	2.30E-02
9.08E-05	3	3	9.76E-04
1.42E-08	2	12	8.24E-07
6.21E-02	0.604028079	12	2.71E-02
8.00E-01	0.364226438	5	2.38E-01
3.55E+03	-0.312940815	21	9.51E+01
2.61E-04	2	9	1.08E-04
2.41E-07	3	6	5.11E-06
9.71E-06	2	6	1.13E-04

6.93E-05	2	8	3.26E-05
3.34E-01	0.498178795	9	8.42E-02
5.43E-01	0.437128239	3	2.32E-01
1.02E+01	-1	7	2.72E+02
1.14E+01	0.668349218	49	5.31E-06
2.97E+02	-0.563356841	7	1.23E+01
8.60E-01	-0.044545008	4	9.07E-01
3.37E+00	-0.208585422	1	8.80E-01
3.60E+08	-1	22	5.45E+06
6.19E-02	0.63139594	4	1.14E-01
3.37E-04	1	10	7.33E-04
3.60E-01	0.193596891	1	4.42E-01
1.21E-01	0.383874805	7	1.86E-01
2.39E-01	0.478551603	4	1.82E-01
3.08E+00	0.014325765	2	6.49E-01
6.18E-07	1	20	1.82E-05
1.42E-02	0.611167403	10	3.80E-02
4.73E-01	1	5	2.46E-02
4.60E-02	0.942839171	10	5.57E-03
8.22E+02	-2	8	1.96E+03
1.53E+02	-2	3	6.27E+01
5.78E+01	-1	3	1.14E+01
9.98E+00	-1	1	3.64E+00
5.88E+00	0.040296594	2	6.13E-01
5.47E-01	0.01578557	1	5.99E-01
1.35E+00	0	3	7.28E-01
5.62E+01	-0.783460545	4	8.77E+00
6.89E-01	-0.190354795	4	1.42E+00
1.96E+02	-0.086221276	17	5.07E+00
2.46E-02	0.807081058	8	2.15E-02
1.03E+01	1	4	3.64E-02
3.98E-01	-0.011901608	6	9.80E-01
4.38E-01	0	1	6.16E-01
7.46E-01	0	2	6.69E-01
4.17E+03	-0.810065159	15	1.35E+03
1.45E+01	-0.731303113	11	1.36E+02
6.74E+00	-0.362967829	6	3.96E+00
3.28E+00	-0.431438134	5	3.93E+00
1.22E+00	-0.025406723	6	1.03E+00
5.54E-02	-0.333550825	10	9.00E+00
5.65E+01	-0.190595692	10	3.93E+00
1.87E+05	-0.400529241	17	8.47E+01
7.06E+01	0.057201778	11	9.93E-01
2.26E+01	-0.664007088	2	2.82E+00
3.36E-01	0.474558464	3	2.10E-01
3.34E-01	0.025347546	2	6.33E-01
2.21E-01	-0.741275721	6	1.78E+01

2.09E+00	0.107864201	5	5.88E-01
5.44E-01	-0.000835516	4	7.93E-01
4.51E-01	-0.0798991	2	7.96E-01
4.22E-01	-0.009882661	3	7.47E-01
9.89E+00	-0.434461492	7	6.96E+00
1.04E+01	0.226981246	10	3.51E-01
6.82E-01	1	2	5.08E-02
3.91E+00	0.27173884	6	3.17E-01
3.02E+03	-0.292998034	11	8.83E+00
1.03E-02	0.779235727	6	4.22E-02
9.65E+00	-0.052282961	3	8.34E-01
2.14E+04	-0.594865754	26	1.16E+04
1.31E+00	-1	2	6.13E+00
3.55E+02	-0.169193017	4	1.33E+00
3.65E+00	-0.626679072	7	1.63E+01
4.11E-01	0	4	7.91E-01
4.29E-01	0	2	6.69E-01
4.11E-01	0	4	7.91E-01
6.41E-01	0	3	7.28E-01
4.58E-01	0	1	6.16E-01
4.18E+01	-0.298021394	9	5.89E+00
2.50E+00	-0.507823718	6	7.04E+00
1.83E+00	-0.388179765	5	3.38E+00
7.01E-01	-0.17953382	3	1.16E+00
1.70E+00	-0.300657706	5	2.48E+00
2.04E+02	-0.269941973	7	3.36E+00
2.22E+00	-0.155149085	5	1.49E+00
1.16E+00	0	3	7.28E-01
9.34E-01	-0.028140319	5	9.49E-01
8.19E-01	-0.000867113	8	1.11E+00
1.97E+00	0	11	1.42E+00
1.35E+05	-2	8	5.60E+03
1.76E+00	-0.157101787	4	1.28E+00
1.75E+00	-0.009769712	2	6.84E-01
8.71E+02	-0.754965033	9	6.74E+01
9.27E+00	-0.34564057	5	2.91E+00
2.01E+00	-0.166343747	3	1.12E+00
5.67E-02	0.824888873	5	4.70E-02
9.47E-01	-0.058065171	4	9.45E-01
1.63E+01	-0.196608399	6	2.04E+00
3.47E+02	-0.210757114	7	2.58E+00
2.88E+00	-0.678609225	3	4.30E+00
7.94E-01	-0.023495893	5	9.34E-01
1.42E+01	-0.002939294	6	9.46E-01
9.66E+01	0.118594579	7	6.01E-01
4.70E-01	0	4	7.91E-01
1.39E+02	-0.361313317	7	5.03E+00

3.85E+02	-0.793324332	10	1.29E+02
5.31E-01	-0.007815993	5	8.84E-01
1.13E+00	-0.192574409	8	2.83E+00
7.27E+00	-0.284797787	7	3.59E+00
4.60E+00	-0.37761171	4	2.52E+00
5.92E+00	-0.129064927	4	1.18E+00
1.16E+00	-0.146468179	4	1.24E+00
6.87E-01	-0.023485079	3	7.74E-01
2.53E+01	-0.217392519	6	2.22E+00
4.37E-01	-0.011279278	3	7.49E-01
3.90E+01	-0.979768478	11	6.42E+02
4.02E-01	-0.019515424	5	9.21E-01
3.17E+01	-0.388723175	7	5.68E+00
6.87E-01	-0.001957318	4	7.96E-01
1.57E+00	-0.142966435	8	2.22E+00
4.20E-01	-0.173968933	3	1.15E+00
2.01E+03	-0.981752175	13	1.87E+03
1.22E+01	-0.131327707	4	1.18E+00
2.88E+00	-0.301280898	5	2.49E+00
2.53E+02	-0.602229548	10	4.26E+01
4.61E+01	-1	6	2.33E+02
3.14E+00	-0.199544829	6	2.07E+00
4.59E-01	0	2	6.69E-01
3.43E+01	-0.637373547	4	5.60E+00
1.03E+00	-0.393327999	8	7.54E+00
5.42E+00	-0.380602163	10	1.18E+01
3.12E+00	-0.134468393	4	1.20E+00
8.18E-01	-0.213420386	3	1.27E+00
7.24E-01	-0.184823045	3	1.18E+00
3.06E+00	-0.405561361	5	3.59E+00
1.49E+04	-0.077114146	8	1.61E+00
1.92E+03	-1	11	1.97E+03
4.43E-01	0.062765768	1	5.53E-01
5.50E-01	0.374391628	10	1.50E-01
6.53E-01	0.201431537	10	4.07E-01
3.41E+02	-0.784945223	8	5.10E+01
5.36E-01	-0.09424674	3	9.31E-01
4.29E-01	0	2	6.69E-01
4.36E-01	0	2	6.69E-01
3.19E+02	-0.591830899	14	1.64E+02
5.29E-01	-0.16575893	3	1.12E+00
3.56E+00	-0.365690284	15	3.77E+01
8.88E-01	-0.026136275	3	7.79E-01
1.81E+00	0	5	8.60E-01
1.32E+03	-0.803282974	8	5.58E+01
2.78E+00	-0.572354982	4	4.59E+00
1.67E+03	-1	9	1.27E+03

1.45E+03	-1	9	2.53E+03
6.49E+00	0.089053863	3	5.76E-01
9.78E+01	0.227198196	13	3.31E-01
1.81E+02	-0.508082655	2	2.01E+00
3.10E+02	-0.489538026	3	2.62E+00
2.28E+01	0.212077955	5	4.07E-01
4.62E-01	0.048974382	4	6.80E-01
4.23E-01	0.497647746	3	1.98E-01
4.46E-01	0.033199089	1	5.82E-01
1.83E+00	0.003372606	5	8.50E-01
1.09E+00	-0.521700903	3	2.85E+00
6.35E+01	0.245670203	24	2.14E-01
4.21E-01	0.047717199	3	6.42E-01
1.65E+04	0.022366081	20	2.39E+00
5.14E+01	-0.560854047	8	1.71E+01
6.43E-01	-0.03084726	3	7.89E-01
2.17E+04	-0.361232661	7	5.03E+00
4.29E-01	-0.067909929	4	9.74E-01
1.24E+00	-0.209198524	6	2.15E+00
4.11E-01	0	4	7.91E-01
4.20E-01	0.020805194	4	7.42E-01
2.15E+07	0.513704251	73	5.57E-06
1.53E-04	3	3	2.87E-04
4.42E-14	2	24	1.73E-10
1.19E-02	1	4	2.40E-02
4.59E-01	0.345861459	5	2.54E-01
8.56E+02	0.069127688	13	1.02E+00
2.92E+00	-0.200738446	3	1.23E+00
6.02E-01	0	3	7.28E-01
7.51E+00	-0.222116235	21	3.58E+01
7.52E+00	-0.643949276	6	1.21E+01
2.28E-06	1	27	9.70E-07
1.64E-06	0.750180855	13	7.88E-03
1.78E-01	0.733541303	2	1.37E-01
2.51E+01	0.409598612	8	1.50E-01
2.52E+01	-0.058310693	19	4.92E+00
2.31E-01	0.894774792	6	2.66E-02
4.46E-02	0.063242679	8	8.11E-01
4.00E-01	-0.059473515	1	6.82E-01
5.38E-01	-0.096704677	15	4.32E+00
1.18E+00	-0.198831967	3	1.22E+00
4.38E-01	0.025220701	1	5.90E-01
7.80E-01	0.454584971	7	1.36E-01
1.03E+00	-0.008684511	6	9.68E-01
4.47E-01	0.387764353	21	5.03E-02
3.86E+01	0.572153209	10	4.76E-02
9.19E+00	-0.918786186	4	1.33E+01

1.24E+02	-0.517744421	9	1.90E+01
2.56E+00	-0.205572443	4	1.49E+00
1.56E+01	-0.863633434	6	2.90E+01
1.58E+00	-0.292033399	4	1.94E+00
1.00E+00	-0.075070305	4	9.96E-01
8.60E-01	-0.343231715	3	1.79E+00
7.48E-01	-0.513655364	4	3.83E+00
3.40E+01	-0.413513178	3	2.15E+00
1.31E+00	0.077767374	5	6.54E-01
8.59E+03	-0.170534394	42	6.00E+02
1.22E-01	0	2	6.69E-01
1.69E+01	-0.234327861	8	3.47E+00
1.82E+00	-0.37815896	6	4.20E+00
1.31E+01	-0.382872781	4	2.56E+00
7.32E+01	-0.436599996	11	2.16E+01
9.87E+00	-0.160878633	7	2.07E+00
4.22E-01	0	5	8.60E-01
8.30E+00	-0.017085645	3	7.61E-01
9.04E+00	-0.297153439	6	3.05E+00
1.68E+00	-0.204667983	3	1.24E+00
3.91E+00	-0.509520561	7	9.71E+00
2.10E+00	0.048970565	6	7.69E-01
9.35E-01	-0.433149005	11	2.12E+01
2.38E+00	-0.788962024	5	1.39E+01
1.13E+00	-0.632721638	5	7.99E+00
8.09E-01	-0.188028794	9	3.27E+00
4.11E-01	0	4	7.91E-01
4.59E-01	0.059759412	3	6.22E-01
1.39E+00	-0.053181541	5	1.04E+00
3.15E-01	0.898830203	4	5.01E-02
5.71E-01	1	6	1.75E-02
3.37E+00	0.507477831	5	1.44E-01
7.36E+01	1	7	1.10E-02
5.11E-01	-0.200019098	8	2.93E+00
9.17E+02	-0.907407622	16	4.84E+03
3.61E+01	-0.196570568	9	3.43E+00
1.92E+04	-1	9	1.80E+03
1.63E+02	0.115531918	5	5.72E-01
3.93E-01	0	6	9.35E-01
4.30E-01	-0.009871048	3	7.47E-01
5.61E-01	-0.088203021	6	1.33E+00
3.15E+01	-0.374655799	9	8.86E+00
4.62E-01	0.085114371	8	7.29E-01
1.66E+00	0.117407294	17	8.18E-01
4.19E+00	-1	3	2.59E+01
4.38E-01	-0.014020948	1	6.31E-01
5.98E+02	-0.481044238	19	3.18E+02

1.77E+01	-0.856575398	7	4.51E+01
8.65E+00	-0.44580961	6	5.50E+00
2.01E+00	-0.278739671	5	2.30E+00
1.02E+00	-0.01866448	1	6.36E-01
9.23E+00	-0.380047023	6	4.24E+00
1.04E+00	-0.039628964	6	1.09E+00
6.29E-01	-0.037155409	5	9.80E-01
5.40E+02	-2	5	3.40E+02
1.17E+01	-0.701410617	2	3.06E+00
6.90E-01	-0.176159924	6	1.88E+00
1.25E+06	-2	10	8.93E+03
4.55E+02	-1	3	3.50E+01
1.27E+01	-0.314639097	7	4.09E+00
4.44E+01	-0.523760924	9	1.96E+01
1.04E+00	-0.229998046	3	1.33E+00
1.06E+01	-0.156834873	5	1.49E+00
2.12E+00	-0.437104696	5	4.01E+00
4.38E-01	-0.010797418	1	6.27E-01
4.29E-01	-0.002377413	2	6.73E-01
6.19E-01	0	4	7.91E-01
5.05E-01	0	2	6.69E-01
8.18E+00	-1	5	4.99E+01
3.98E-01	-0.142296591	3	1.06E+00
5.55E+00	-0.343372953	4	2.27E+00
9.09E-01	-0.213194572	3	1.27E+00
4.14E-01	-0.001881578	4	7.95E-01
2.72E+00	-0.332220003	5	2.77E+00
4.14E-01	-0.116580104	4	1.13E+00
9.31E-01	0	3	7.28E-01
4.44E-01	0	4	7.91E-01
8.69E-01	-0.169772678	3	1.13E+00
4.63E+00	0	4	7.91E-01
6.84E-01	0.059459447	9	8.74E-01
1.24E-01	1	4	2.98E-02
6.94E-04	2	4	4.38E-04
1.01E-06	2	9	3.93E-06
2.44E-01	0.87601853	12	4.38E-03
5.84E+03	-0.455516809	10	1.82E+01
1.72E+01	0.474663853	3	2.10E-01
3.22E+01	-0.66369099	7	1.92E+01
4.43E-01	0.023370083	2	6.36E-01
6.42E-01	0.252745112	2	3.87E-01
5.96E+02	-0.507390314	8	1.32E+01
4.22E+00	-0.121786584	4	1.15E+00
4.94E+00	-0.664419151	6	1.31E+01
1.90E+00	-0.572568082	6	9.11E+00
6.39E+01	-0.95945173	6	4.24E+01

4.49E-01	-0.015570453	1	6.32E-01
8.48E-01	-0.124562599	4	1.16E+00
5.11E-01	-0.031728856	3	7.91E-01
2.48E+01	-0.416743332	8	8.45E+00
6.17E+02	-2	5	7.63E+02
7.81E-01	-0.299557899	6	3.08E+00
6.42E-01	-0.368571093	3	1.91E+00
1.72E+00	-0.348130126	8	6.04E+00
3.61E+02	-1	8	1.62E+02
2.16E+03	-2	6	9.03E+02
1.88E+04	-2	9	6.22E+03
9.40E-01	0	5	8.60E-01
4.20E-01	0	3	7.28E-01
5.35E-01	0	2	6.69E-01
5.49E-01	0	3	7.28E-01
4.20E-01	-0.009161914	3	7.45E-01
6.54E-01	-0.192430566	4	1.43E+00
1.32E+02	-0.276919572	9	5.26E+00
2.13E+00	-0.261931438	7	3.24E+00
8.26E+00	-0.90492697	6	3.42E+01
6.21E-01	0	4	7.91E-01
1.45E+00	-0.566348729	8	1.75E+01
1.17E+01	-0.661558146	5	8.85E+00
4.79E-01	-0.007645385	3	7.42E-01
3.56E+02	-0.919395957	8	9.83E+01
3.02E+02	-2	7	1.72E+03
3.25E+02	-0.109355393	17	6.24E+00
2.96E-01	-0.163570861	3	1.12E+00
2.44E+01	-0.290392607	11	8.69E+00
4.29E-01	0	2	6.69E-01
4.20E-01	0	3	7.28E-01
5.49E-01	-0.414700661	7	6.38E+00
4.09E+00	0.382226947	5	2.24E-01
3.78E+01	-1	8	2.18E+02
9.79E-01	0	5	8.60E-01
3.58E+01	-0.707037359	7	2.33E+01
1.78E+03	-0.902760745	9	1.48E+02
4.51E-01	0.068148579	2	5.77E-01
6.64E-03	0.76407795	7	3.45E-02
1.09E-06	1	17	1.07E-04
6.67E-04	1	14	2.05E-04
1.93E-03	1	17	4.55E-06
5.13E+00	-0.149320326	9	2.66E+00
1.24E+01	0.182076301	2	4.51E-01
4.94E-02	0.08847986	2	5.53E-01
6.33E-01	0.452993658	2	2.51E-01
5.65E-01	0.045029937	1	5.70E-01

8.30E+00	-0.194189707	7	2.40E+00
4.80E+00	0	3	7.28E-01
5.43E-01	-0.065237034	2	7.71E-01
1.42E+00	-0.434580371	7	6.96E+00
2.61E+00	-0.01482877	6	9.91E-01
8.88E-01	-0.09071003	3	9.23E-01
7.14E-01	-0.081152297	3	9.00E-01
1.06E+01	-0.744504378	6	1.80E+01
1.38E-01	-0.473016592	3	2.51E+00
1.25E+01	-0.286861217	6	2.92E+00
4.51E-01	-0.034800141	1	6.53E-01
4.90E+02	-0.454905275	9	1.36E+01
9.33E+01	-1	5	2.92E+01
6.89E+00	-0.852982782	3	6.79E+00
1.17E+00	-0.335693841	4	2.22E+00
1.74E+00	-0.168681804	3	1.13E+00
1.77E+01	-1	4	2.07E+01
1.68E+02	-0.285280168	9	5.50E+00
9.94E+02	-0.598065814	9	2.92E+01
6.60E-01	-0.097063154	5	1.21E+00
1.43E+02	-0.695900228	10	7.33E+01
1.60E+00	-0.01967033	4	8.40E-01
1.27E+00	-0.345540053	3	1.80E+00
2.64E+00	-0.308412719	4	2.04E+00
3.17E+00	0.371816306	4	2.52E-01
1.84E-01	0.105245095	9	6.85E-01
8.43E+00	-0.901780036	4	1.26E+01
5.11E-01	-0.057835767	4	9.45E-01
4.20E-01	-0.028965412	4	8.64E-01
3.84E+00	-0.436782041	11	2.17E+01
4.38E-01	0	1	6.16E-01
4.48E-01	-0.013356365	1	6.30E-01
4.53E-01	-0.012330133	2	6.87E-01
6.43E-01	-0.005364184	3	7.38E-01
9.68E+02	-0.889661654	13	9.67E+02
1.03E+00	-0.135587808	5	1.39E+00
9.94E-01	-0.258510306	2	1.17E+00
3.04E+00	-0.092849566	5	1.19E+00
6.83E-01	-0.101041173	2	8.33E-01
4.52E-01	-0.004688806	1	6.21E-01
6.51E-01	-0.003345527	3	7.34E-01
9.66E-01	-0.053902114	4	9.33E-01
6.35E-01	-0.021059837	2	7.00E-01
7.18E-01	0	3	7.28E-01
2.18E+00	-0.19617469	2	1.02E+00
5.35E-01	-0.073905243	9	1.78E+00
4.23E-01	0	3	7.28E-01

4.20E-01	0	3	7.28E-01
4.45E-01	-0.005932244	2	6.78E-01
2.88E+00	-0.408889691	6	4.75E+00
3.09E-01	0.039608959	4	7.00E-01
8.50E-01	-0.126196721	4	1.17E+00
9.62E+02	-1	7	1.60E+02
8.41E+01	-1	8	4.13E+02
5.81E-01	0	5	8.60E-01
4.40E-01	0	2	6.69E-01
1.11E+00	-0.270740261	7	3.37E+00
4.28E-01	-0.938871218	5	2.35E+01
1.47E+01	-0.222205799	7	2.72E+00
2.03E+01	-0.348601548	5	2.94E+00
5.91E-01	0.005945698	5	8.42E-01
6.60E-01	0.038079757	5	7.52E-01
4.27E-01	-0.19273125	7	2.39E+00
3.83E+01	-0.889993783	6	3.22E+01
2.62E+02	-0.582016165	5	6.68E+00
7.61E+00	-0.174017866	9	3.04E+00
5.06E-01	-0.221918272	2	1.08E+00
2.79E+00	-0.196850746	8	2.89E+00
4.45E-01	0.02771869	1	5.87E-01
4.89E-01	0.161432807	2	4.72E-01
7.86E-01	0.251431839	3	3.77E-01
1.14E+04	-0.856067439	13	7.61E+02
5.80E-01	0	3	7.28E-01
9.44E-01	0	3	7.28E-01
8.10E+03	-0.410015826	21	2.71E+02
4.68E+00	-0.237099307	9	4.25E+00
3.24E+01	-0.716142675	9	5.48E+01
6.91E+00	-0.749859703	9	6.56E+01
1.45E+00	-0.877324505	2	4.47E+00
4.88E-01	-0.069981801	5	1.10E+00
3.23E+00	-0.1224676	3	1.00E+00
3.39E+00	-0.298671899	3	1.59E+00
8.91E+01	-0.455369235	12	3.25E+01
1.02E+01	-0.600563055	8	2.07E+01
4.67E-01	-0.022798014	5	9.32E-01
4.18E-01	-0.015214641	6	9.93E-01
1.17E+00	-0.36999222	6	4.07E+00
4.67E+01	-0.371463121	10	1.12E+01
8.09E+01	-0.850395011	4	1.08E+01
4.29E-01	0.114620601	3	5.39E-01
8.62E-01	-0.2592624	2	1.17E+00
8.82E+00	-0.634448337	4	5.55E+00
2.38E+06	-0.820636848	18	5.75E+03
7.42E+04	-0.811967929	12	3.54E+02

1.27E+02	0.167778994	16	5.17E-01
6.78E+00	-0.009867354	10	1.38E+00
7.25E-01	-0.035746266	2	7.23E-01
3.20E+00	-0.714450325	4	7.09E+00
4.29E-01	0	2	6.69E-01
4.11E-01	0	4	7.91E-01
4.20E-01	0	3	7.28E-01
6.39E+01	0.12661586	8	5.95E-01
3.22E+01	-0.205469629	7	2.52E+00
2.63E+00	-0.493819073	7	9.05E+00
1.80E-02	0.450959829	16	4.65E-02
1.96E-03	1	17	7.88E-05
1.71E+00	-0.346291718	4	2.29E+00
1.98E+00	-0.287052922	13	1.30E+01
4.70E-01	0	4	7.91E-01
1.54E+01	0.071623521	10	8.62E-01
3.66E+02	-0.56382969	7	1.23E+01
1.34E+02	-0.449812692	7	7.45E+00
2.27E+00	0.02819793	4	7.25E-01
1.57E+00	-0.184591303	6	1.95E+00
3.93E-01	-0.041895925	6	1.10E+00
3.09E+00	0.103663191	11	7.43E-01
1.40E+02	-0.385996562	16	5.74E+01
4.89E+01	0.172232722	8	4.76E-01
9.08E-01	-0.291388019	4	1.94E+00
6.20E-01	-0.119615966	2	8.67E-01
5.59E+00	-0.193760451	13	6.70E+00
4.78E-01	-0.041758609	2	7.33E-01
4.40E+02	-0.905883945	10	2.47E+02
8.94E+04	-0.404961196	24	5.71E+02
2.08E+00	-0.270408681	5	2.23E+00
6.13E+00	-0.244724543	5	2.04E+00
8.56E+00	-0.142912659	4	1.23E+00
1.12E+00	0.129782346	4	5.31E-01
1.36E+03	-0.540751629	11	4.15E+01
2.39E+00	-0.124780534	4	1.16E+00
6.48E+04	-0.220745668	8	3.25E+00
8.38E-01	0.029408177	5	7.75E-01
4.81E-01	0.269671787	3	3.59E-01
4.20E-01	0	3	7.28E-01
4.29E-01	0	2	6.69E-01
5.14E-01	-0.02467822	5	9.38E-01
4.11E-01	0	4	7.91E-01
1.40E+00	0	3	7.28E-01
7.30E+01	-1	4	2.15E+01
2.58E+01	-1	2	1.38E+01
5.39E+00	-1	1	3.90E+00

7.99E+00	-0.9758103	4	1.58E+01
9.45E-01	0.037845863	3	6.59E-01
6.16E-01	-0.127999856	4	1.17E+00
1.57E+01	-1	5	3.80E+01
1.02E+02	-0.833886486	4	1.02E+01
4.66E-01	0	1	6.16E-01
3.20E+00	0.170025224	14	5.01E-01
6.71E-01	0.667798696	2	1.58E-01
1.26E+01	-0.120614179	6	1.51E+00
7.75E+01	-0.463929223	8	1.06E+01
3.68E+05	-0.94752185	21	8.83E+04
3.67E+04	-0.634079623	12	1.08E+02
6.79E+00	-0.571509216	5	6.44E+00
2.92E+00	-0.292899059	7	3.72E+00
5.42E+01	-0.173132266	6	1.86E+00
1.42E+04	-1	9	3.14E+02
1.59E+00	-0.287651668	2	1.25E+00
4.27E-01	-0.0024218	3	7.32E-01
3.58E-01	0.011586392	17	2.11E+00
5.31E+00	-0.722444558	9	5.67E+01
6.01E+04	-0.216193082	45	2.61E+03
1.30E+00	0	5	8.60E-01
1.02E+00	-0.372259329	4	2.48E+00
2.23E+00	0	6	9.35E-01
4.23E+00	-0.34376179	9	7.52E+00
2.21E+00	-0.140540994	6	1.63E+00
4.88E+00	-0.707904884	6	1.56E+01
4.46E-01	0.02717943	4	7.28E-01
7.08E-01	0.003953446	4	7.81E-01
3.10E+02	-0.504733924	9	1.77E+01
1.00E+00	-0.295555828	6	3.03E+00
1.24E+01	-0.359433444	9	8.17E+00
5.52E-01	0	4	7.91E-01
1.89E+00	-0.444646727	4	3.10E+00
6.40E-01	-0.030974654	1	6.49E-01
1.98E+03	-0.757206186	11	1.60E+02
6.12E-01	-0.138633489	4	1.21E+00
1.98E+01	-0.187653511	13	6.41E+00
1.61E+00	-0.130217123	2	8.87E-01
6.48E+03	-0.586271194	13	1.11E+02
5.46E+00	-0.207633081	4	1.50E+00
2.20E+01	-0.443612866	17	1.25E+02
4.59E-01	0	4	7.91E-01
1.57E+00	1	4	3.02E-02
6.90E-01	0	2	6.69E-01
3.54E-01	0.056063933	1	5.59E-01
1.00E-01	0.455967292	3	2.21E-01

4.14E-01	0.030717742	1	5.84E-01
3.93E-01	0	6	9.35E-01
4.29E-01	0	2	6.69E-01
6.74E-01	-0.201378544	9	3.52E+00
1.06E+00	0	8	1.10E+00
4.29E-01	0	2	6.69E-01
3.93E-01	0	6	9.35E-01
5.43E+01	-0.180012498	4	1.37E+00
1.36E+01	-0.40212567	6	4.62E+00
4.47E-01	0	1	6.16E-01
3.11E+00	-0.475747316	1	1.39E+00
5.62E-01	0.027420399	3	6.77E-01
1.79E+00	-0.089024517	5	1.18E+00
1.10E+00	-0.05733395	3	8.45E-01
1.28E+02	-0.91716729	8	9.72E+01
1.42E+00	0.298459275	4	3.16E-01
5.87E-01	-0.062912657	5	1.07E+00
6.03E-01	-0.068300574	8	1.54E+00
9.09E-01	-0.206487197	5	1.78E+00
5.62E-01	-0.023776766	2	7.05E-01
1.68E+02	-0.439049321	14	5.13E+01
5.08E+01	-0.253465234	6	2.56E+00
4.38E-01	0.018137692	1	5.97E-01
6.66E+00	0.224123901	8	3.70E-01
3.18E+00	0.975187942	5	2.77E-02
1.30E+00	-0.017750482	4	8.35E-01
5.61E+01	-0.152012678	6	1.71E+00
1.01E+01	-0.039651581	7	1.21E+00
2.63E+01	-0.061246404	5	1.07E+00
2.80E+02	-0.802357403	6	2.27E+01
7.23E+00	-0.167094275	4	1.32E+00
3.26E+03	-0.406653963	9	1.05E+01
1.16E+02	-0.382759463	7	5.54E+00
2.06E+01	-0.143110185	9	2.58E+00
6.69E+03	-1	8	5.27E+02
1.24E-31	1	139	1.62E-27
7.84E-01	0.070161835	14	1.07E+00
4.29E+00	0.090373258	10	7.74E-01
4.09E+00	0.524197401	16	2.50E-02
1.48E-01	0.085824826	36	2.54E+00
5.43E-01	0.387811869	15	8.73E-02
4.38E-01	0	2	6.69E-01
3.25E+00	-0.15803547	7	2.05E+00
4.29E-01	-0.030650607	2	7.15E-01
1.20E+02	-0.669432598	10	6.29E+01
2.42E+03	-0.817674978	19	8.80E+03
3.44E+01	-0.818645698	9	9.47E+01

1.59E+00	-0.330674057	4	2.18E+00
8.08E+01	-0.172968973	7	2.19E+00
4.88E+00	-0.272348604	6	2.76E+00
7.16E+01	-0.962171724	8	1.21E+02
2.82E+03	-1	7	3.31E+02
1.88E+02	-1	9	6.41E+02
1.83E+02	-0.132199159	8	2.11E+00
2.50E+00	-0.348780239	8	6.06E+00
3.80E+02	-0.968218656	8	1.25E+02
5.30E+01	-0.730193323	7	2.58E+01
3.85E-01	0	7	1.02E+00
1.02E+00	-0.0790272	6	1.28E+00
1.84E+01	-0.145562673	9	2.61E+00
5.44E-01	-0.226561358	4	1.59E+00
4.83E+01	-0.545742134	5	5.88E+00
8.12E+00	0	2	6.69E-01
2.71E+02	-0.939439637	8	1.08E+02
3.44E+02	-2	3	6.19E+01
4.54E-01	-0.022368573	1	6.40E-01
4.54E-01	-0.022368573	1	6.40E-01
4.35E+00	-2	2	2.79E+01
9.37E+00	-0.663844258	3	4.14E+00
2.53E+01	-0.253053995	6	2.56E+00
7.96E+00	-1	2	1.09E+01
3.98E-01	-0.185519989	2	1.00E+00
3.16E+03	-2	12	4.11E+04
5.26E+01	-0.393406957	8	7.54E+00
2.69E-01	-0.006703233	5	8.80E-01
6.73E+02	-0.10540854	15	4.63E+00
4.30E-01	0	2	6.69E-01
1.26E+02	-0.527477639	7	1.05E+01
2.70E-01	-0.364836561	5	3.11E+00
5.53E-01	-0.096523889	4	1.06E+00
2.21E+00	-0.493372573	2	1.95E+00
3.04E+01	-0.374663954	4	2.50E+00
1.56E+00	-0.022143596	3	7.71E-01
3.71E+01	-1	2	1.64E+01
8.55E+03	-2	14	1.91E+05
6.90E+00	0.219973815	4	4.02E-01
1.35E+01	-0.388894306	6	4.39E+00
2.79E-01	0.107581583	11	7.25E-01
6.03E-02	0.468792248	9	9.85E-02
2.97E+00	-0.635107468	7	1.69E+01
2.00E+04	-0.860555637	10	1.90E+02
4.25E-01	-0.059366882	3	8.50E-01
6.24E+00	-2	5	2.65E+02
8.28E+00	-0.644574931	4	5.72E+00

2.14E+00	-0.345169617	5	2.90E+00
1.56E+02	-0.994624859	8	1.42E+02
5.66E+02	-0.765653948	9	7.13E+01
4.94E+00	-0.432330831	6	5.22E+00
1.98E+00	0	5	8.60E-01
5.81E-01	0	3	7.28E-01
4.57E-01	-0.00768821	2	6.80E-01
6.49E+00	-0.221124158	5	1.87E+00
7.30E-01	-0.086785891	2	8.08E-01
7.28E-01	0	6	9.35E-01
4.38E-01	0	1	6.16E-01
5.15E-01	0.210357564	3	4.19E-01
4.52E-01	0.054914841	1	5.60E-01
1.25E+01	-0.093334016	9	1.98E+00
5.02E-01	-0.024297375	1	6.42E-01
4.53E-01	0	1	6.16E-01
4.17E+02	-1	10	4.41E+03
1.60E+06	-0.67511671	35	1.09E+06
8.51E+03	-1	9	6.66E+02
5.60E+07	-2	12	1.51E+05
1.70E+03	-0.484420582	7	8.68E+00
8.04E+01	-0.502571308	5	5.05E+00
5.20E-01	-0.052740655	1	6.74E-01
2.26E+01	-1	6	6.63E+01
2.25E-01	-0.152075109	6	1.71E+00
4.31E-01	-0.010056013	2	6.84E-01
5.90E-01	-0.092306068	4	1.05E+00
3.35E+01	-0.090149663	20	7.63E+00
5.56E-01	0.187674326	4	4.44E-01
4.73E+00	0	5	8.60E-01
2.32E+00	-0.351397402	4	2.33E+00
5.98E+00	-0.563343694	4	4.46E+00
6.84E-01	-0.14629887	3	1.07E+00
3.91E+03	-2	6	1.84E+03
5.57E-01	-0.136288114	5	1.39E+00
1.27E+00	-0.120288879	4	1.14E+00
4.34E+01	-0.749963625	4	7.91E+00
5.62E+01	-0.670272652	9	4.29E+01
2.09E+03	-0.803764175	12	3.35E+02
4.00E+00	-0.101387957	9	2.06E+00
4.11E-01	0	4	7.91E-01
5.91E-01	0	4	7.91E-01
3.47E+00	-0.425143132	4	2.92E+00
5.65E-01	-0.070525056	3	8.75E-01
6.08E-01	-0.504040645	5	5.08E+00
5.00E-01	-0.058273681	2	7.59E-01
2.21E+00	-0.129717206	5	1.36E+00

4.41E-01	0	2	6.69E-01
4.11E-01	0	4	7.91E-01
6.97E-01	-0.071837224	3	8.78E-01
1.12E+05	-1	16	4.74E+05
4.90E-01	-0.176400343	4	1.36E+00
5.11E-01	-0.082255861	2	8.00E-01
4.38E-01	0	1	6.16E-01
3.95E-01	-0.047778003	2	7.42E-01
2.82E-01	-0.641061417	3	3.90E+00
3.55E+01	-0.625336854	5	7.79E+00
4.69E-01	-0.042402517	2	7.34E-01
9.84E+01	-0.769174361	5	1.29E+01
4.45E+01	-0.024250686	5	9.37E-01
6.57E+00	-0.517940094	4	3.88E+00
9.81E+00	-0.728733411	4	7.41E+00
4.34E-01	0	2	6.69E-01
6.46E+00	-0.378050524	6	4.20E+00
3.32E+00	-0.177668469	5	1.61E+00
4.78E-01	-0.007608675	2	6.80E-01
2.56E+00	-0.321130939	7	4.21E+00
3.40E+01	-0.824330026	6	2.48E+01
5.05E-01	0	4	7.91E-01
5.48E-01	0.02746455	4	7.27E-01
4.38E-01	-0.010056915	2	6.84E-01
4.29E-01	0	2	6.69E-01
7.42E-01	0	7	1.02E+00
7.77E-01	-0.002438759	3	7.32E-01
4.86E-01	0	1	6.16E-01
1.47E+03	0.60737273	9	4.70E-02
9.82E-01	-0.102310593	4	1.08E+00
1.24E+04	-1	11	9.97E+02
1.98E+02	-0.250449716	9	4.57E+00
3.29E+01	-0.71782982	8	3.67E+01
1.00E+03	-0.704514884	15	5.76E+02
1.51E+01	-0.241700414	17	2.04E+01
5.04E+00	-0.460576422	11	2.51E+01
4.38E-01	0	1	6.16E-01
8.95E+00	-0.616053849	6	1.08E+01
1.33E+00	-0.063481383	7	1.35E+00
4.97E+01	-0.198884649	21	2.79E+01
2.25E+05	-0.408395301	27	1.33E+03
4.04E+00	-0.132266206	9	2.43E+00
2.39E+00	-0.432606416	5	3.95E+00
4.82E-01	0.056547184	7	7.91E-01
1.24E+00	-0.764740296	8	4.62E+01
7.95E+01	-0.649909591	7	1.81E+01
3.53E+01	-1	5	4.80E+01

5.68E-01	-0.025017642	2	7.06E-01
4.81E-01	-0.169410486	4	1.33E+00
4.82E-01	0	2	6.69E-01
1.63E+00	0	4	7.91E-01
5.24E-01	-0.140198483	4	1.22E+00
3.45E+02	-0.325477508	10	8.59E+00
2.64E+00	-0.301919822	4	2.00E+00
6.08E-01	-0.011417735	3	7.50E-01
8.24E+02	-2	8	2.22E+03
1.94E+01	0.048663378	5	7.24E-01
7.45E+00	-1	5	3.78E+01
6.15E-01	-0.085994275	2	8.06E-01
4.02E-01	0	5	8.60E-01
4.29E-01	0	2	6.69E-01
2.21E+01	-0.17286295	5	1.58E+00
7.15E-01	-0.210754321	3	1.26E+00
1.43E+00	-0.061940816	4	9.57E-01
4.59E-01	0	5	8.60E-01
8.04E-01	-0.031469332	7	1.17E+00
1.57E+00	0.053327614	6	7.56E-01
4.13E+03	-0.453252997	34	1.84E+04
8.03E-01	-0.100219867	3	9.46E-01
4.96E+00	0.339005743	2	3.21E-01
4.36E+00	-0.713014886	2	3.13E+00
4.57E-01	-0.074873764	1	7.00E-01
1.02E+01	1	13	6.81E-05
5.14E-01	0.204637013	4	4.22E-01
8.80E+01	-0.802380469	9	8.68E+01
1.44E+04	-0.791083601	11	1.98E+02
1.60E+01	-0.450849668	12	3.15E+01
3.50E+04	-0.416066612	11	1.90E+01
1.54E+00	-0.132253352	10	2.81E+00
9.81E+00	-0.030536077	14	2.30E+00
2.47E+02	-0.896211836	6	3.30E+01
3.40E+10	-0.934757773	24	3.52E+05
1.90E+02	-0.658705082	9	4.03E+01
2.91E+01	-1	4	5.98E+01
9.82E-01	-0.288620522	3	1.55E+00
7.69E+01	-0.903768253	3	7.75E+00
3.38E+00	-0.389688473	2	1.56E+00
9.54E-01	-0.385658375	2	1.54E+00
4.54E-01	-0.01866448	1	6.36E-01
8.48E-01	-0.18719738	7	2.33E+00
3.56E+00	-0.741382041	6	1.78E+01
1.43E+01	-0.534596713	10	2.88E+01
4.69E-01	-0.043161997	4	9.03E-01
2.02E+02	-0.299818845	32	9.21E+02

3.02E+00	-0.278865054	6	2.83E+00
4.49E+00	-0.240186861	9	4.32E+00
4.40E-01	-0.01035954	4	8.16E-01
1.63E+00	0.323959298	4	2.92E-01
5.55E-01	-0.224902582	8	3.31E+00
4.40E-01	-0.00223234	4	7.96E-01
1.06E+00	-0.137678334	7	1.87E+00
7.82E+03	-0.263829099	18	3.05E+01
1.58E+02	-1	6	3.08E+02
4.06E+00	-0.219037786	4	1.55E+00
4.96E-01	-0.015276687	2	6.92E-01
3.83E+00	0	8	1.10E+00
5.32E-01	-0.074724263	6	1.26E+00
4.29E-01	0	2	6.69E-01
7.81E-01	-0.05979384	5	1.06E+00
1.93E+00	-0.110728311	2	8.51E-01
1.71E+00	0	3	7.28E-01
4.82E-01	0	3	7.28E-01
3.52E+01	-0.380025721	4	2.54E+00
2.48E+00	-0.029659298	7	1.16E+00
6.74E-01	-0.013862248	6	9.88E-01
5.63E-01	-0.01482776	6	9.91E-01
8.02E+01	-0.337892668	11	1.17E+01
6.43E+04	-1	14	3.15E+04
1.54E+00	-0.055362674	12	2.23E+00
1.60E+01	-0.788981462	12	3.03E+02
6.56E+00	-1	5	4.00E+01
2.68E+02	-0.252908452	24	9.03E+01
1.49E+01	-0.775664631	3	5.54E+00
5.37E+00	-0.78904012	3	5.74E+00
2.01E+01	-0.312362653	6	3.24E+00
4.19E+00	-0.202242341	6	2.09E+00
4.11E-01	0	4	7.91E-01
4.11E-01	-0.189139618	4	1.41E+00
2.14E+00	-0.089751197	9	1.94E+00
1.47E+00	-0.009008187	8	1.15E+00
6.01E-01	0	3	7.28E-01
4.47E-01	0	1	6.16E-01
5.56E-01	0	5	8.60E-01
1.27E+02	-0.325416983	8	5.41E+00
1.95E+00	-0.475747316	2	1.87E+00
4.92E+00	-0.244969112	5	2.04E+00
6.73E-01	0	9	1.20E+00
5.47E-01	-0.224415144	6	2.28E+00
5.34E-01	-0.001173038	7	1.02E+00
6.19E-01	-0.159686974	6	1.76E+00
1.90E+01	-0.226627427	12	7.03E+00

1.03E+02	-0.759100531	8	4.49E+01
9.97E-01	0	5	8.60E-01
5.42E-01	-0.484628738	5	4.74E+00
9.55E-02	0.233361458	12	3.24E-01
3.40E-01	0.005303865	21	3.09E+00
4.53E-01	0.014931648	1	6.00E-01
5.90E-01	0.086449225	7	6.93E-01
7.42E-01	-0.058804023	22	6.88E+00
5.44E-01	0	2	6.69E-01
7.80E-01	-0.002262009	2	6.73E-01
6.12E-01	-0.130346409	5	1.36E+00
3.53E+00	-0.306935834	2	1.30E+00
1.15E+00	-0.297870495	7	3.80E+00
1.31E+00	-0.243245929	2	1.13E+00
3.63E+00	-0.238421222	18	2.40E+01
4.05E-02	0.1825824	13	4.55E-01
2.66E-01	0.143073609	5	5.19E-01
1.10E-01	0.149817221	21	6.52E-01
3.97E-09	0.726862684	43	5.88E-06
3.85E-01	2	1	3.74E-02
2.32E-01	0.200499257	22	3.75E-01
3.49E-01	0.085254909	12	8.72E-01
1.04E-01	0.302845807	14	1.83E-01
7.37E-01	-0.100404129	14	3.91E+00
4.02E-01	0	5	8.60E-01
4.02E-01	-0.031715188	5	9.61E-01
2.01E+01	-0.288699189	8	4.52E+00
1.37E+00	-0.208252347	6	2.14E+00
4.09E-03	0.272602602	46	6.41E-02
5.17E-01	0.197561169	9	4.19E-01
4.69E-01	0.036223908	2	6.19E-01
4.42E-01	-0.007053238	3	7.41E-01
1.84E-01	0.029247964	5	7.76E-01
2.47E-01	0.079477494	10	8.24E-01
3.17E+01	-0.2110164	12	6.33E+00
4.29E-01	0	2	6.69E-01
3.96E-01	-0.02291599	11	1.64E+00
1.27E+00	0.10173752	23	1.18E+00
3.27E-01	0.025589772	9	1.05E+00
2.30E+02	-1	6	5.27E+01
1.17E+01	-0.435390969	8	9.25E+00
1.29E+00	0.112578172	4	5.60E-01
4.77E-01	0.018363862	8	1.01E+00
2.97E+00	-0.161842098	7	2.08E+00
5.61E+00	-0.495611161	5	4.93E+00
1.45E+00	-0.123712321	9	2.32E+00
2.63E+00	-0.16244069	4	1.30E+00

7.52E-01	0	1	6.16E-01
5.40E+00	-0.204113845	4	1.48E+00
8.46E-01	-0.880783449	1	2.78E+00
1.54E+03	-0.854304708	11	2.93E+02
9.90E-01	-0.020564558	3	7.68E-01
3.77E-01	-0.161159774	2	9.49E-01
8.73E-01	-0.001835569	5	8.65E-01
2.57E+01	-0.352209459	7	4.84E+00
1.52E+00	-0.69823194	2	3.03E+00
6.12E-01	-0.095049316	6	1.36E+00
2.44E+00	-0.223095471	22	4.35E+01
6.19E-01	-0.046239626	3	8.21E-01
7.37E-01	0	2	6.69E-01
7.13E-01	-0.032735514	5	9.65E-01
2.31E+00	-0.018175233	4	8.36E-01
9.51E-01	0	10	1.31E+00
6.43E-01	-0.117092408	5	1.30E+00
6.74E-01	-0.125042042	11	3.10E+00
4.34E-01	0	2	6.69E-01
2.86E+02	-0.310249367	19	5.90E+01
3.00E+07	-0.803290308	31	1.64E+06
1.59E+00	-0.219460625	7	2.69E+00
6.47E+00	-0.166465378	8	2.49E+00
1.60E-01	-0.000214646	10	1.31E+00
2.58E+00	-0.083965014	25	1.31E+01
1.34E+00	-0.224861619	4	1.58E+00
6.86E+00	0.237845843	14	2.99E-01
3.87E+10	-1	40	2.34E+12
1.84E+02	-1	9	4.57E+02
4.77E-01	-0.043731759	3	8.16E-01
3.24E+00	-0.534223776	6	7.82E+00
1.36E+00	-0.034800141	1	6.53E-01
1.52E+01	-0.197762384	20	2.31E+01
1.11E+02	-2	3	1.08E+02
6.71E-01	-0.020823642	2	7.00E-01
4.29E-01	0	2	6.69E-01
2.12E+01	-0.339827315	9	7.36E+00
4.80E-01	-0.04603228	3	8.21E-01
4.29E-01	0	2	6.69E-01
8.74E-01	-0.164483952	3	1.12E+00
9.74E+00	0.158826413	9	5.15E-01
5.15E-01	-0.048453499	2	7.43E-01
3.84E-01	-0.00800513	3	7.43E-01
4.38E-01	0	1	6.16E-01
7.12E-01	0	4	7.91E-01
5.55E-01	0	5	8.60E-01
4.29E-01	0.023665946	2	6.36E-01

4.31E-01	-0.007673757	2	6.80E-01
1.95E+00	0	2	6.69E-01
4.29E-01	-0.008691261	2	6.82E-01
4.64E-01	0	3	7.28E-01
1.94E+00	-0.338936032	5	2.84E+00
4.33E-01	-0.045314264	2	7.38E-01
4.49E-01	0	2	6.69E-01
4.75E-01	0	8	1.10E+00
1.49E-01	-0.082619173	7	1.47E+00
1.30E+01	-0.674807153	8	2.98E+01
5.76E-01	0	3	7.28E-01
4.38E-01	0	1	6.16E-01
2.92E+00	0	4	7.91E-01
2.16E+00	-0.314941956	6	3.27E+00
4.24E-01	-0.00819028	5	8.85E-01
2.72E-01	-0.224091227	5	1.89E+00
4.29E-01	-0.006504695	2	6.79E-01
4.29E-01	0	2	6.69E-01
4.35E-01	-0.014020948	1	6.31E-01
3.25E+00	-0.189741315	20	2.13E+01
8.40E+01	-0.666392308	8	2.86E+01
4.74E+00	-0.315350052	2	1.32E+00
2.25E+02	-0.684460737	9	4.63E+01
3.10E+00	-0.492682453	2	1.94E+00
2.70E+06	-2	21	4.51E+08
8.97E-01	0	2	6.69E-01
2.90E-01	0	5	8.60E-01
4.82E-01	-0.040217124	2	7.30E-01
1.88E+01	-1	3	1.85E+01
3.74E-01	-0.396121362	5	3.47E+00
4.29E-01	0	2	6.69E-01
1.03E+00	-0.028696502	7	1.15E+00
7.37E+00	-0.716167882	9	5.48E+01
4.08E-01	-0.005080917	9	1.23E+00
2.58E-02	0.273231814	18	1.95E-01
3.85E-01	-0.072920341	7	1.40E+00
7.50E-01	-0.079959605	15	3.77E+00
2.72E+01	-0.306176229	13	1.50E+01
3.63E-01	0	10	1.31E+00
3.95E-01	0.118256369	15	7.65E-01
9.46E-01	-0.488132111	4	3.54E+00
6.89E+01	-0.599228315	7	1.44E+01
4.42E-01	-0.006629696	3	7.40E-01
6.29E+00	-0.428306159	12	2.71E+01
4.20E-01	0	3	7.28E-01
3.68E-01	0	9	1.20E+00
4.38E-01	0	1	6.16E-01

3.52E-01	0.039711228	23	2.43E+00
8.95E-01	0.110773487	6	6.02E-01
3.78E-01	0.190320188	5	4.40E-01
5.87E-01	0	9	1.20E+00
1.28E+00	-0.150429947	15	6.66E+00
4.54E-05	2	6	2.25E-04
4.96E-01	-0.147959328	16	7.58E+00
3.68E+01	-0.249587924	23	7.12E+01
4.60E+00	-0.041388791	18	3.76E+00
4.47E-01	-0.016270244	13	1.88E+00
7.65E-01	-0.609952438	5	7.38E+00
3.39E-01	0.048018879	5	7.26E-01
4.80E-01	0	10	1.31E+00
1.91E+01	-0.702444678	10	7.61E+01
4.28E+00	-0.14003827	12	3.94E+00
1.23E+00	0.054736338	2	5.94E-01
9.86E-05	2	9	1.76E-05
3.91E-01	-0.009309305	7	1.06E+00
4.10E-01	-0.010651148	6	9.75E-01
7.40E+02	-1	14	3.31E+04
3.64E+00	-2	4	1.19E+02
1.63E+02	-0.196675336	8	2.89E+00
2.86E-01	-0.002064191	8	1.12E+00
5.45E+00	-0.434389317	5	3.97E+00
4.78E+00	-0.232453852	2	1.11E+00
1.28E+00	0.262715037	2	3.79E-01
2.75E-01	0.030817093	4	7.19E-01
6.11E+00	-0.811593814	3	6.09E+00
3.02E+01	-0.278005014	4	1.86E+00
2.94E+01	-0.012372992	10	1.40E+00
5.17E+00	0.374335586	2	2.98E-01
4.60E+00	-0.543512125	7	1.13E+01
4.72E-01	-0.040721556	2	7.31E-01
1.73E+00	-0.336610868	4	2.22E+00
5.67E-01	-0.061857277	2	7.65E-01
8.72E-01	-0.086971119	10	2.16E+00
4.38E-01	0	1	6.16E-01
4.28E-01	-0.001193046	2	6.71E-01
2.77E-01	-0.097297711	5	1.21E+00
3.93E-01	-0.004282769	6	9.51E-01
4.05E+00	-0.002641741	9	1.22E+00
4.34E-01	0	2	6.69E-01
4.29E-01	0	2	6.69E-01
3.70E-01	0	4	7.91E-01
7.44E-01	0.245015325	2	3.94E-01
7.85E-01	0	6	9.35E-01
4.29E-01	-0.105701423	2	8.41E-01

8.28E-01	-0.070842677	8	1.56E+00
4.10E-01	0	12	1.54E+00
4.11E-01	0	4	7.91E-01
1.49E+00	0.264763008	12	2.62E-01
4.01E-01	0.021268545	7	9.25E-01
8.37E-01	0.007612018	45	2.06E+01
5.03E-01	-0.271590777	6	2.75E+00
3.68E-01	0.088983524	9	7.47E-01
4.36E-01	-0.059878615	3	8.51E-01
5.00E-01	0.078380999	11	8.70E-01
3.48E-01	0	12	1.54E+00
2.50E+04	-0.364311551	24	3.49E+02
4.42E-01	0	6	9.35E-01
3.43E-01	-0.032542548	3	7.92E-01
3.00E-01	0.282550774	15	2.04E-01
3.87E-01	0.106498756	2	5.31E-01
6.29E-01	0.004001559	8	1.08E+00
4.59E-01	0.015910205	4	7.53E-01
3.93E-01	0.323507347	8	2.28E-01
2.82E-01	0.2116847	4	4.13E-01
4.12E-01	0.003129799	4	7.83E-01
5.28E-01	-0.110329984	6	1.45E+00
3.46E-01	0.067061311	2	5.79E-01
2.87E-01	0.364098252	3	2.80E-01
4.65E-01	0.034805575	6	8.14E-01
1.96E+07	-0.740506557	24	3.34E+04
1.57E+00	-0.303384782	10	7.56E+00
4.91E-01	0	9	1.20E+00
3.99E+00	-0.005521242	13	1.74E+00
4.66E+01	-0.466127175	10	1.94E+01
3.50E+02	-0.377484104	15	4.14E+01
1.59E+01	-0.422119427	9	1.14E+01
1.19E+02	-0.57525513	8	1.83E+01
2.59E-02	0.265612753	11	2.71E-01
1.46E+00	0.222508153	11	3.54E-01
3.76E-01	0.08420819	8	7.32E-01
4.36E-01	0	2	6.69E-01
2.52E-01	0.095712374	27	1.49E+00
4.36E-01	0.849905343	3	7.86E-02
4.11E-01	-0.038727739	4	8.91E-01
3.76E-01	0	8	1.10E+00
6.20E-01	-0.121717046	7	1.74E+00
3.76E-01	-0.013408838	8	1.18E+00
1.43E-02	1	8	3.66E-03
4.08E-01	0	5	8.60E-01
4.42E-01	0	1	6.16E-01
5.20E-01	-0.095062125	9	1.99E+00

2.26E-02	1	3	4.51E-02
3.70E-01	-0.001267215	8	1.11E+00
4.20E-01	0	3	7.28E-01
1.66E-01	0.137014454	12	6.17E-01
5.02E+00	-0.150617284	10	3.12E+00
6.48E-01	-0.149788802	11	3.61E+00
1.24E+00	-0.039342485	7	1.21E+00
6.85E-01	-0.041853365	8	1.36E+00
4.38E-01	0	1	6.16E-01
6.78E-01	-0.012305495	5	8.98E-01
5.40E-01	-0.006394258	3	7.40E-01
1.82E+00	-0.466017849	4	3.31E+00
1.43E+00	0.140242512	6	5.35E-01
1.47E+00	-0.19135721	4	1.42E+00
9.41E-01	-0.460406884	3	2.43E+00
1.59E+00	-0.084711444	8	1.67E+00
4.38E-01	0	1	6.16E-01
2.43E+01	-0.186620009	15	8.91E+00
2.61E-01	-0.061749875	8	1.49E+00
6.17E+00	-0.373897915	6	4.13E+00
4.26E-01	-0.010067947	2	6.84E-01
1.40E+00	-0.238652767	3	1.36E+00
4.95E+02	-0.707558332	6	1.56E+01
5.04E-01	-0.029360882	1	6.47E-01
4.20E-01	-0.013517296	3	7.54E-01
7.31E-01	-0.024956069	5	9.39E-01
1.82E+00	0.362762637	4	2.60E-01
4.69E-01	-0.009090245	1	6.25E-01
1.97E-01	-0.912935647	3	7.94E+00
1.80E+00	-0.42805565	6	5.13E+00
4.61E-01	-0.347804619	2	1.42E+00
1.08E+01	0.64078668	2	1.67E-01
3.02E+01	-1	5	4.79E+01
3.08E+00	-0.253905714	8	3.82E+00
1.28E+00	0.019186005	3	6.92E-01
8.15E-01	-0.252143118	2	1.16E+00
8.12E+01	-0.951933116	3	8.79E+00
9.85E-01	-0.004108055	4	8.01E-01
5.06E+02	-0.569456323	9	2.51E+01
2.30E-01	0.079818099	36	2.82E+00
1.66E+00	-0.082391985	5	1.15E+00
1.34E+03	-0.498208919	37	9.83E+04
3.91E-01	0	6	9.35E-01
5.71E-01	0.177260831	5	4.60E-01
4.20E-01	0.003315948	3	7.21E-01
1.01E+00	-0.231650028	6	2.35E+00
4.43E-01	-0.006538325	1	6.23E-01

5.40E-01	-0.132754834	3	1.03E+00
4.43E-01	-0.015252724	2	6.92E-01
6.20E+00	-0.467669197	8	1.08E+01
7.25E-01	-0.196987018	3	1.22E+00
4.49E+01	-0.327090123	7	4.33E+00
6.35E+01	-0.218765002	8	3.21E+00
7.65E-01	-0.397451249	3	2.06E+00
4.53E-01	0	1	6.16E-01
1.42E+01	-0.109866236	15	4.80E+00
4.07E+00	-0.234040853	7	2.87E+00
1.19E+00	0	2	6.69E-01
6.92E-01	-0.006256193	3	7.40E-01
1.12E+00	-0.180378521	4	1.38E+00
2.17E+00	-0.146035356	18	1.01E+01
1.05E+03	0.121168381	11	6.66E-01
4.70E-01	0.031936228	1	5.83E-01
1.12E+01	-0.141978132	11	3.44E+00
4.54E-01	-0.008333234	2	6.81E-01
1.01E+00	-0.118365034	6	1.50E+00
7.04E+02	-0.607134741	9	3.06E+01
4.47E-01	-0.0075706	3	7.42E-01
4.36E-01	-0.029687225	4	8.66E-01
1.90E+00	-0.349762904	3	1.82E+00
4.24E-01	-0.017052407	3	7.61E-01
4.39E-01	0	2	6.69E-01
4.48E-01	0	1	6.16E-01
4.51E-01	0	1	6.16E-01
2.27E+01	-1	2	7.41E+00
3.54E+00	-1	2	1.64E+01
9.79E+00	-1	4	3.94E+01
3.58E+01	-1	3	2.30E+01
4.38E-01	0	1	6.16E-01
4.38E-01	-0.00473052	2	6.76E-01
1.26E+11	-0.769453788	62	6.37E+11
1.96E+03	-2	11	3.22E+04
7.56E+00	-0.182771909	7	2.28E+00
3.74E-01	0.234810124	13	3.13E-01
6.94E-01	0.013744249	15	1.77E+00
6.00E-01	-0.441791373	4	3.07E+00
1.31E+01	-0.516661699	11	3.57E+01
2.33E-01	0.277090281	79	1.45E-02
4.38E-01	0	1	6.16E-01
4.95E-01	0	4	7.91E-01
5.56E-01	0	3	7.28E-01
1.44E-03	0.511502822	21	1.33E-02
4.34E-01	0.139427204	9	5.71E-01
2.15E-01	-0.079098655	4	1.01E+00

3.05E-01	0.034641955	9	9.98E-01
4.22E-02	0.814124497	4	6.49E-02
8.65E-02	1	1	5.52E-02
1.68E+00	0.431452361	5	1.88E-01
4.34E-01	0	7	1.02E+00
6.73E-01	0.002765907	5	8.51E-01
1.37E+00	-0.109916961	39	1.18E+02
6.47E-01	-0.049166548	8	1.40E+00
3.30E-01	-0.010627081	14	1.98E+00
6.57E-01	0.126288438	3	5.23E-01
2.95E+02	-0.830720627	6	2.54E+01
5.57E+01	-1	5	3.45E+01
6.07E+01	-0.971605192	5	2.64E+01
1.03E+01	-0.642832283	3	3.92E+00
1.34E-01	1	4	3.22E-02
5.82E-01	0.071127472	3	6.04E-01
5.11E+00	-0.036247944	11	1.78E+00
5.56E-01	0.025078645	8	9.77E-01
9.55E+00	-1	4	7.52E+01
2.41E+00	-0.275907866	6	2.80E+00
4.39E-01	0	2	6.69E-01
5.35E-01	0	4	7.91E-01
2.14E+02	-0.414533807	11	1.89E+01
1.17E+04	-0.790614211	12	3.07E+02
1.34E+09	-1	34	8.07E+09
2.67E+01	-0.118736857	8	1.97E+00
1.85E+00	-0.190403659	13	6.54E+00
5.13E-01	0.036873145	1	5.78E-01
5.48E+00	-0.2525848	6	2.55E+00
1.57E+02	-0.015015028	9	1.30E+00
8.32E-01	-0.077353592	6	1.27E+00
1.74E+00	-0.276777469	3	1.50E+00
1.93E+03	-0.312374873	13	1.56E+01
9.51E+00	-0.556489445	13	8.95E+01
3.68E-01	0.302085232	5	2.97E-01
4.38E-01	0	1	6.16E-01
1.50E+07	-0.792638641	36	1.27E+07
4.20E-01	-0.033108923	3	7.93E-01
9.10E-01	-0.000125804	7	1.02E+00
7.44E-01	-0.204150301	20	2.47E+01
5.06E-01	-0.099271931	13	3.41E+00
3.54E-01	0.019809443	10	1.16E+00
2.37E-01	0.214961956	12	3.66E-01
1.69E-01	0.456122378	4	1.95E-01
1.38E-01	-0.024706656	16	2.66E+00
2.81E-01	-0.410359287	7	6.26E+00
2.41E-01	0.134952552	12	6.25E-01

4.14E-01	-0.006823098	3	7.41E-01
1.77E+02	-0.785932459	4	8.84E+00
3.38E-01	-0.238825122	3	1.36E+00
3.35E-01	0.160106023	10	5.17E-01
3.69E+00	0.254030991	34	1.41E-01
3.76E-01	0.220698642	6	3.89E-01
1.78E-01	0.114854992	8	6.31E-01
1.25E-02	1	12	1.28E-03
6.17E-01	-0.10552483	6	1.42E+00
5.98E-01	-0.006249995	17	2.48E+00
1.48E+00	-0.380911499	5	3.29E+00
8.41E+00	-0.34046716	8	5.82E+00
1.11E+00	-0.141689245	5	1.42E+00
1.68E+03	-0.156052435	13	5.12E+00
4.20E-01	-0.000148556	3	7.28E-01
3.24E+00	-0.353066759	7	4.85E+00
3.10E-14	2	29	3.66E-14
4.11E-01	0.285902063	4	3.29E-01
6.86E-01	-0.034151888	6	1.07E+00
2.97E-01	-0.081972339	21	7.91E+00
4.10E-01	0	4	7.91E-01
5.62E+00	-0.030855179	14	2.31E+00
4.38E-01	0	1	6.16E-01
8.42E-01	-0.05288782	20	5.19E+00
4.60E-01	0.130162929	7	5.71E-01
3.93E-01	0.000470057	6	9.33E-01
1.83E-01	0.201267755	21	3.75E-01
4.06E-01	0.052210104	2	5.98E-01
4.10E-01	-0.001493062	18	2.58E+00
7.34E-01	0.099751926	9	7.05E-01
4.37E-01	0	1	6.16E-01
1.85E+00	-0.252405994	8	3.79E+00
7.20E+00	-0.317857837	11	1.03E+01
9.53E+00	-0.353995787	7	4.87E+00
1.99E+00	-0.165911098	11	4.00E+00
4.06E+04	0.469365853	21	2.09E-02
3.63E-01	0.167401047	6	4.80E-01
5.22E-01	-0.041776017	2	7.33E-01
4.97E-01	-0.05743654	7	1.31E+00
2.48E+00	-0.565088999	5	6.30E+00
5.01E-01	-0.012327366	5	8.98E-01
3.67E+01	-0.420148969	3	2.19E+00
1.16E+01	-0.327228494	4	2.16E+00
4.97E+01	-0.737859318	4	7.62E+00
4.23E+01	-0.485988624	9	1.60E+01
1.51E+03	-0.199340864	8	2.92E+00
1.95E+03	-1	6	2.36E+02

1.26E+00	-0.421724267	5	3.80E+00
5.03E-01	-0.324210035	3	1.70E+00
4.25E-01	0	3	7.28E-01
4.02E+01	-0.259361692	13	1.07E+01
1.64E+00	-0.030761489	5	9.58E-01
3.51E-01	-0.007155367	9	1.25E+00
3.88E-01	0	5	8.60E-01
4.99E-02	0.202994006	11	4.00E-01
4.27E-01	0.079917371	31	2.22E+00
8.59E-02	0.184878737	9	4.48E-01
2.52E-01	0.002037964	7	1.01E+00
4.46E-01	-0.040131767	2	7.30E-01
4.66E-01	-0.033400721	8	1.30E+00
6.73E+00	-0.207505938	11	5.18E+00
9.04E-01	-0.001767223	4	7.95E-01
4.19E-02	0.531447567	12	4.40E-02
2.06E-01	0.650814388	14	1.30E-02
2.96E+00	-0.069348424	5	1.10E+00
1.83E+00	-0.174587717	12	4.96E+00
2.52E+07	-0.690603778	31	2.92E+05
4.34E-01	-0.01030381	2	6.84E-01
4.16E-01	0	3	7.28E-01
4.95E-01	-0.054211395	5	1.04E+00
4.07E-01	-0.00375384	6	9.49E-01
2.28E+09	-0.901079777	43	2.66E+09
5.62E-01	-0.012287216	2	6.87E-01
1.47E+00	0.092824609	6	6.46E-01
4.54E-01	0	1	6.16E-01
5.34E-01	0.110759668	3	5.44E-01
4.50E-01	0.052752596	1	5.62E-01
1.83E+00	-0.055178286	13	2.49E+00
1.88E+00	-0.106870946	10	2.42E+00
4.35E-01	0.025220701	1	5.90E-01
2.60E+02	-0.062286093	46	1.05E+02
3.66E-01	0.070238257	8	7.84E-01
3.01E-01	0.635808868	2	1.69E-01
3.95E-01	-0.003720766	6	9.49E-01
7.41E-01	0.221477282	7	3.81E-01
1.43E-01	1	5	1.81E-02
3.84E+01	-0.560920571	5	6.21E+00
1.00E+00	-0.211513768	3	1.27E+00
4.07E-01	-0.024652725	5	9.38E-01
3.31E-01	0.125074862	1	4.97E-01
1.74E-02	0.119216132	12	6.95E-01
7.98E-01	-0.18693827	5	1.66E+00
4.21E-01	-0.099475675	4	1.07E+00
6.72E-01	-0.004338671	6	9.51E-01

1.22E+00	-0.632499802	9	3.51E+01
1.17E+00	0	6	9.35E-01
1.19E+01	-2	3	1.54E+02
1.69E+01	-0.207913673	5	1.79E+00
1.61E+00	-0.116159499	3	9.86E-01
3.04E-01	-0.041310957	5	9.95E-01
1.17E-02	0.446662415	11	8.74E-02
1.88E-01	0.353855299	2	3.11E-01
1.19E+00	-0.895862193	2	4.66E+00
2.04E+00	-0.586042145	7	1.36E+01
1.09E+00	-0.235171764	9	4.21E+00
8.01E-01	-0.002455957	4	7.97E-01
4.37E-01	0	2	6.69E-01
8.63E-01	-0.044132707	5	1.00E+00
2.33E+00	-0.2972121	2	1.27E+00
1.42E+04	-0.886190585	14	1.53E+03
7.59E-01	-0.316080535	5	2.62E+00
4.48E-01	0	1	6.16E-01
3.72E-01	-0.177400803	3	1.16E+00
1.24E+01	-0.553319019	2	2.22E+00
3.80E+04	-1	19	6.52E+04
4.29E-01	-0.170211213	2	9.67E-01
4.29E-01	-0.007189684	2	6.80E-01
8.62E-01	0	4	7.91E-01
2.85E+00	-0.007019749	2	6.79E-01
1.53E+00	-0.121487535	4	1.15E+00
7.12E-01	-0.21562854	3	1.28E+00
2.97E+01	-0.620361676	10	4.73E+01
2.79E+00	-0.891523513	5	1.99E+01
7.63E-01	0.101982373	14	8.40E-01
4.50E-01	0.060536401	2	5.87E-01
9.96E-01	-0.019988462	1	6.37E-01
1.04E+02	-0.479544428	6	6.29E+00
4.85E+01	-0.434154548	12	2.82E+01
2.91E+00	-0.005223551	3	7.38E-01
4.39E-01	0	3	7.28E-01
4.38E-01	0	1	6.16E-01
2.00E+01	-0.733199259	4	7.52E+00
2.97E+04	-0.974643271	19	4.14E+04
9.96E+00	-1	2	1.37E+01
4.26E+01	-2	1	1.50E+01
1.09E+02	-0.945625339	6	4.01E+01
3.60E+00	-0.009540701	4	8.14E-01
2.34E+00	-0.325561952	4	2.15E+00
1.21E+01	-0.248919673	5	2.07E+00
4.60E-01	-0.364344711	6	3.98E+00
2.95E+00	-0.442662674	3	2.32E+00

5.86E-01	-0.008861642	3	7.45E-01
4.02E+00	-0.084159005	5	1.16E+00
1.32E+00	-0.009036107	3	7.45E-01
7.57E+00	0.024447044	20	2.34E+00
7.86E+00	-0.331079545	7	4.40E+00
3.88E+04	-0.26416233	49	1.66E+04
8.55E+00	-0.456767956	6	5.75E+00
5.25E+01	-0.422756437	10	1.51E+01
1.00E+02	-2	3	4.93E+01
5.67E-02	0.879971657	6	2.83E-02
2.05E-02	1	8	1.23E-03
1.99E-01	0.365602754	11	1.45E-01
2.03E-01	0.396166002	12	1.09E-01
6.23E-01	0.12907837	12	6.50E-01
3.21E+00	0.082839932	45	4.05E+00
1.66E+03	-0.711018826	16	9.11E+02
2.70E-05	0.725913177	38	2.04E-05
5.16E-01	1	4	2.83E-02
1.77E-01	2	7	3.95E-04
3.30E+02	-0.610367352	14	1.88E+02
1.04E+05	-0.598723208	18	7.12E+02
8.77E-01	-0.411788082	3	2.14E+00
3.23E+01	-0.037387619	9	1.47E+00
6.98E-10	2	15	6.01E-09
3.26E-01	0.131471658	1	4.91E-01
6.23E-02	1	2	5.96E-02
2.12E-02	0.006821444	5	8.39E-01
1.20E-02	0.898812344	11	5.20E-03
2.13E+00	0.2343094	11	3.29E-01
5.25E-01	-0.012628745	10	1.40E+00
2.89E-01	0.000531588	5	8.58E-01
7.96E-02	1	2	2.69E-02
2.50E-02	0.706687601	18	3.30E-03
6.12E+01	-0.829188122	13	6.28E+02
4.31E-02	0.92951155	6	2.32E-02
7.41E-05	2	6	5.47E-04
2.09E-03	0.834050478	23	2.29E-04
3.63E-01	0.035017991	2	6.20E-01
1.30E-01	0.300469994	7	2.69E-01
1.90E-02	0.712576671	17	3.96E-03
3.40E-03	0.428896642	13	7.83E-02
2.46E-01	-0.117862934	5	1.30E+00
1.36E+00	-0.434172207	2	1.71E+00
6.27E+00	-0.144823396	11	3.50E+00
6.63E-03	0.402414675	6	1.89E-01
1.87E-03	1	7	1.58E-03
3.76E-01	0.38035392	3	2.69E-01

5.61E-46	3	57	1.80E-35
3.55E-03	1	11	2.72E-03
5.29E-01	-0.006546658	3	7.40E-01
4.56E+00	-0.427108639	10	1.55E+01
3.15E+03	-0.251020941	20	4.01E+01
1.76E+01	-0.315194263	15	2.51E+01
2.87E+00	-0.139034727	7	1.88E+00
4.12E-01	-0.087510389	28	1.99E+01
4.20E-01	0	3	7.28E-01
7.71E-01	-0.087931977	17	5.15E+00
4.02E-01	-0.10963818	5	1.27E+00
8.33E-01	0.046075221	5	7.31E-01
5.89E-01	0.902689208	6	2.58E-02
4.46E-01	0	2	6.69E-01
1.91E+02	-0.267107646	14	1.39E+01
1.26E+00	-0.014760339	6	9.91E-01
1.33E+01	-1	3	2.27E+01
1.02E+00	0.217258948	9	3.77E-01
4.29E-01	-0.043067884	2	7.35E-01
7.18E+01	-0.343341891	3	1.79E+00
4.23E-01	-0.541758069	8	1.56E+01
4.49E-01	-0.131534156	3	1.03E+00
3.53E-01	-0.000169861	11	1.42E+00
4.02E-01	0	5	8.60E-01
1.91E+01	-0.775463617	9	7.52E+01
2.66E+00	-0.068780579	1	6.93E-01
1.47E+01	-0.39294682	6	4.46E+00
3.93E-01	0	6	9.35E-01
3.85E-01	0	7	1.02E+00
4.02E-01	0	5	8.60E-01
3.93E-01	0	6	9.35E-01
3.85E-01	0	7	1.02E+00
4.02E-01	0	5	8.60E-01
4.35E+00	0.328761368	21	9.49E-02
1.14E+00	0.11885216	10	6.56E-01
3.78E-01	0	8	1.10E+00
4.98E-01	-0.040421875	14	2.48E+00
1.03E+01	-0.289107298	7	3.66E+00
1.26E+01	-0.234902696	16	1.59E+01
1.30E+00	-0.166288978	5	1.54E+00
2.59E+00	-0.64200279	5	8.26E+00
6.98E-01	0.002727744	2	6.65E-01
1.60E-05	1	21	2.06E-05
6.37E-05	0.328607817	37	3.35E-02
5.55E-01	0.994015712	6	1.80E-02
3.66E-01	-0.307482666	4	2.03E+00
4.15E-01	-0.00928417	4	8.14E-01

6.46E+00	0.43333119	16	5.41E-02
4.15E+01	-0.667309929	11	9.13E+01
1.17E-01	0.648499225	5	8.75E-02
6.21E+00	0.216330484	13	3.57E-01
4.92E-01	-0.023249371	2	7.04E-01
4.02E-01	0	5	8.60E-01
2.93E+03	-1	18	4.46E+04
1.84E+00	-0.08354178	3	9.05E-01
1.32E+00	0.106989088	43	2.24E+00
2.77E-01	1	4	2.56E-02
1.98E+02	-0.021131709	21	4.11E+00
7.53E-01	-0.063907522	7	1.35E+00
5.05E+00	0.002834674	20	2.92E+00
1.28E+00	0.09990914	11	7.61E-01
1.29E-03	1	8	2.60E-03
8.49E+02	-0.360151664	16	4.61E+01
1.41E+00	0.654297005	4	1.06E-01
1.11E+01	-0.072945419	10	1.99E+00
6.65E+01	-0.453883612	14	5.74E+01
6.05E+00	-0.225549488	15	1.22E+01
1.17E+01	-0.210599456	12	6.32E+00
1.01E+00	-0.315159262	1	1.06E+00
2.50E-01	0.291540149	10	2.42E-01
7.62E-01	-0.146986937	4	1.24E+00
1.95E+03	-0.926728926	8	1.02E+02
4.59E-01	-0.013046184	2	6.88E-01
5.11E-01	0	4	7.91E-01
5.51E-01	-0.119432139	5	1.31E+00
9.07E+00	-0.27203129	14	1.44E+01
7.97E+00	-0.008242038	31	8.56E+00
5.68E-01	0.204002042	28	3.42E-01
1.43E-02	2	7	8.53E-04
5.84E-01	-0.101381174	6	1.40E+00
5.75E-02	0.57762367	7	7.87E-02
9.72E-02	0.733621449	18	2.56E-03
2.15E+02	-0.80205717	23	4.50E+04
2.07E+02	-0.984573822	12	1.12E+03
2.22E+00	-0.166791989	7	2.13E+00
1.99E+00	-0.391648865	3	2.03E+00
1.49E+10	-1	42	5.95E+11
1.24E-02	0.365520632	10	1.57E-01
2.88E-03	0.753701547	15	4.59E-03
8.92E-01	-0.143071178	5	1.42E+00
4.51E-01	-0.027015095	1	6.45E-01
1.59E-01	-0.04122992	11	1.84E+00
1.25E+00	-0.108837509	8	1.88E+00
1.32E+00	0.513138544	6	1.21E-01

7.82E-05	0.97295973	27	1.08E-05
1.81E+00	0.116121864	18	8.54E-01
5.09E-01	-0.029639637	2	7.14E-01
7.64E-01	0.565776268	16	1.75E-02
1.29E+00	-0.013530417	10	1.41E+00
4.34E-08	2	23	1.26E-08
5.18E+02	-0.321345305	10	8.38E+00
1.03E-01	0.831333946	4	6.16E-02
4.49E+00	1	6	3.92E-03
2.38E-01	0.683010706	4	9.71E-02
2.53E+00	-0.843149811	6	2.67E+01
5.21E+04	-1	11	5.30E+03
1.42E+05	-0.854255474	16	3.08E+03
2.11E+01	-0.023094154	22	4.61E+00
2.32E+00	-0.102143253	5	1.23E+00
4.16E+10	-1	17	4.18E+04
2.63E+04	-1	7	2.67E+02
9.38E+01	-0.460189882	6	5.83E+00
8.86E-03	0.768545679	16	3.13E-03
1.48E+00	-0.462435282	10	1.90E+01
5.95E+00	0.14984684	15	5.93E-01
3.62E+00	0.269866514	9	2.85E-01
9.38E-03	0.89096361	15	1.52E-03
2.80E-02	0.84934492	10	9.57E-03
3.22E-02	0.50109825	8	9.57E-02
1.10E+00	-0.476393033	15	9.18E+01
5.48E+03	-0.865540508	11	3.15E+02
9.90E+00	0.336769131	9	1.99E-01
2.44E+00	-0.071604145	7	1.40E+00
1.41E+03	-0.801021976	16	1.96E+03
2.09E+00	-0.017762834	12	1.74E+00
1.50E+01	0.528995107	7	9.76E-02
2.59E+00	-0.079704008	6	1.28E+00
7.69E-01	-0.265002806	5	2.19E+00
1.68E+01	-0.4655069	10	1.93E+01
1.14E+01	0.596442894	15	1.63E-02
3.19E+03	-0.30385268	29	5.06E+02
4.42E-05	2	9	6.54E-06
1.39E-01	0.361100182	11	1.49E-01
3.81E-03	2	11	2.58E-05
2.85E-01	0.193196076	5	4.35E-01
1.73E-01	0.75454951	10	1.66E-02
2.97E-01	0.323429185	4	2.93E-01
3.47E-01	-0.253711552	5	2.10E+00
2.67E-01	0.057168755	3	6.26E-01
1.80E-02	0.790135973	15	3.42E-03
2.06E-02	0.468568029	8	1.12E-01

2.70E-01	0.142918542	5	5.20E-01
1.76E-08	1	18	3.31E-06
3.58E-01	-0.023293113	1	6.41E-01
2.88E+03	-0.732119767	16	1.09E+03
1.81E-08	3	12	3.43E-09
8.64E-02	2	1	1.94E-02
1.38E-02	0.742031914	3	1.04E-01
8.12E+00	0.766222168	26	2.29E-04
4.29E-01	0	2	6.69E-01
4.29E-01	0	2	6.69E-01
4.26E+02	-0.39795603	22	3.09E+02
1.17E-01	0.615083525	5	9.84E-02
9.74E-07	2	12	2.67E-06
4.27E-01	-0.270798397	5	2.23E+00
3.53E+02	-0.696633242	11	1.10E+02
6.57E+04	-2	7	4.04E+04
3.57E+00	0.295996895	10	2.35E-01
6.61E-01	0.235492543	2	4.02E-01
4.06E+01	0.165171613	16	5.29E-01
1.24E-02	0.807672411	8	2.14E-02
4.21E-01	-0.033644196	3	7.95E-01
9.33E+05	-1	20	1.07E+05
1.18E+02	0.25105924	8	3.24E-01
4.01E-01	0.050530537	3	6.37E-01
1.33E+01	-0.334220025	9	7.14E+00
1.60E-01	0.175672464	18	4.88E-01
2.43E+06	-0.516365596	44	1.26E+06
7.01E+06	-1	12	8.61E+03
9.16E+01	-0.912285747	4	1.30E+01
1.22E-07	0.943635999	38	3.67E-07
1.08E-14	2	27	1.27E-12
1.98E+01	0.091827138	14	9.08E-01
5.45E+00	0.32321955	3	3.12E-01
1.11E+01	-0.111080591	9	2.17E+00
3.42E+01	-0.297638065	7	3.80E+00
2.64E+01	-0.037032842	7	1.20E+00
1.61E+06	-0.548333837	50	1.81E+07
9.49E+01	-0.592917439	16	3.34E+02
1.20E-01	0.952511674	3	6.01E-02
6.80E-03	2	4	1.22E-03
5.34E+01	-0.41036924	13	3.15E+01
1.06E+00	-0.358426966	3	1.86E+00
4.83E-01	-0.123120595	4	1.15E+00
1.72E+00	-0.271672044	3	1.48E+00
4.60E+01	-0.017434037	12	1.73E+00
8.10E-02	0.109678748	21	1.00E+00
7.28E+03	-0.980353177	14	3.13E+03

5.11E-01	0.227957519	20	2.87E-01
1.06E+00	-0.200657011	6	2.08E+00
3.32E+00	-0.696112977	8	3.30E+01
1.16E+02	-0.182837275	7	2.28E+00
9.09E-01	-0.049377592	4	9.20E-01
3.29E+03	-0.329090643	13	1.76E+01
1.58E+02	-0.346263394	6	3.70E+00
3.83E+00	-0.311049342	7	4.03E+00
5.76E-01	-0.01890378	3	7.64E-01
4.11E-01	0	4	7.91E-01
1.98E+00	-0.339971003	2	1.40E+00
4.58E-01	0.02608065	1	5.89E-01
2.06E+01	-0.335792837	7	4.50E+00
8.44E-01	-0.090912551	3	9.23E-01
3.63E+00	-0.27413707	1	9.84E-01
7.27E+01	-0.461761978	10	1.89E+01
5.43E-01	-0.049959846	3	8.29E-01
2.61E+01	-0.914172017	2	4.84E+00
5.97E+06	-1	12	1.68E+04
5.46E-01	-0.101082364	2	8.33E-01
4.20E-01	-0.053402293	6	1.16E+00
4.38E-01	0	1	6.16E-01
1.06E+00	-0.245134458	2	1.14E+00
1.32E+00	-0.265060097	4	1.78E+00
5.95E-01	0	3	7.28E-01
4.60E-01	-0.176594426	1	8.33E-01
1.39E+00	0.09327643	7	6.72E-01
4.66E-01	0	2	6.69E-01
5.16E-01	-0.019233826	2	6.98E-01
4.06E-01	0.450290197	4	1.98E-01
1.08E-04	0.947810284	18	3.41E-04
8.89E+00	-0.280373002	6	2.85E+00
9.58E-01	2	5	3.73E-03
5.64E+01	-0.566381512	17	3.74E+02
7.89E-01	-0.256627639	5	2.12E+00
8.18E+00	0.306118793	6	2.77E-01
2.50E-19	2	33	5.80E-16
1.92E-01	-0.374676009	3	1.94E+00
5.11E-01	-0.705657828	1	2.06E+00
1.44E+00	-0.343499851	7	4.65E+00
1.29E+00	-0.28144397	10	6.66E+00
5.89E-01	-0.095679733	5	1.20E+00
1.07E+00	0.006259254	4	7.76E-01
1.05E+02	-1	4	5.40E+01
9.64E-08	1	28	2.83E-06
2.23E+05	-2	7	1.62E+04
1.57E+07	-1	16	5.32E+05

1.53E+22	-1	80	2.20E+21
6.96E+22	-2	49	3.53E+19
4.58E+01	-0.33332441	5	2.78E+00
1.37E+03	-0.209501264	41	1.11E+03
1.75E-17	2	42	9.66E-14
8.76E-01	-0.067897643	8	1.54E+00
1.37E+01	-0.085551766	6	1.31E+00
4.56E+00	-0.084783596	14	3.47E+00
5.10E-01	-0.213572713	3	1.27E+00
5.94E-01	-0.00133838	6	9.40E-01
2.94E+04	-0.339832756	11	1.18E+01
1.61E+00	-0.180925993	2	9.90E-01
1.18E+00	-0.107368635	9	2.13E+00
6.83E+02	-0.392705615	18	1.03E+02
1.67E+00	0.457893254	10	9.22E-02
4.01E+05	-0.917740457	20	3.89E+04
4.38E-01	0	1	6.16E-01
1.22E+01	-0.363664898	10	1.07E+01
1.50E+00	-0.170332034	9	2.98E+00
4.38E-01	0	1	6.16E-01
4.97E-01	0	2	6.69E-01
1.59E+00	-0.841346898	5	1.67E+01
9.08E-01	-0.002752416	6	9.45E-01
6.56E-01	-0.291897085	2	1.26E+00
5.36E+00	-0.027190919	6	1.04E+00
3.87E+00	-0.367725149	6	4.03E+00
4.11E-01	0	4	7.91E-01
4.27E+00	-0.503324695	7	9.44E+00
4.87E-01	-0.289741388	3	1.55E+00
7.00E+00	-0.196649364	4	1.45E+00
4.29E-01	0	2	6.69E-01
6.79E-01	0	4	7.91E-01
1.29E+02	-0.652372193	6	1.25E+01
6.94E+01	-0.663757748	6	1.31E+01
2.87E+01	0.374563414	5	2.30E-01
1.33E+02	-1	13	1.06E+04
7.02E-01	-0.082524653	6	1.30E+00
1.38E+01	-0.919952258	4	1.33E+01
1.35E+00	-0.181834724	6	1.93E+00
4.11E-01	0	4	7.91E-01
1.24E+00	-0.524659497	3	2.87E+00
1.53E+00	-0.188023525	3	1.19E+00
7.43E-03	0.879314519	9	1.10E-02
2.77E-01	0.557033609	1	2.37E-01
2.12E+01	0.495513312	16	3.19E-02
1.50E-01	0.01987367	9	1.08E+00
2.78E-02	-0.203336514	8	2.98E+00

2.05E-01	0.154979955	8	5.18E-01
1.11E-02	1	13	1.08E-03
4.90E-01	-0.113616309	4	1.12E+00
9.57E+01	-1	5	8.90E+01
1.15E+00	-0.260716291	4	1.76E+00
3.97E+00	-0.771388515	5	1.30E+01
3.34E+06	-0.956953731	23	2.75E+05
5.28E-01	-0.126412592	4	1.17E+00
1.94E+04	-1	11	3.45E+03
1.68E+01	-0.109118892	4	1.11E+00
7.27E+05	-0.303707371	56	1.97E+05
3.06E+00	0.043736199	7	8.37E-01
3.93E-01	0	6	9.35E-01
4.11E-01	0	4	7.91E-01
3.93E-01	0	6	9.35E-01
4.32E-01	-0.005647217	3	7.38E-01
6.73E-01	0.574915909	13	2.76E-02
4.20E-01	0	3	7.28E-01
1.52E+00	-0.365226116	3	1.89E+00
3.23E+02	-0.863043998	6	2.89E+01
2.20E+04	-0.563419833	12	6.70E+01
1.18E+01	-0.502744218	6	6.90E+00
1.31E+07	-1	22	2.85E+05
2.84E+02	-0.468736375	9	1.46E+01
7.05E+02	-0.822811991	9	9.68E+01
4.80E-01	-0.101061767	10	2.34E+00
3.63E+08	-0.837284183	33	6.94E+06
2.76E+00	-0.110330935	13	3.69E+00
6.88E+00	-0.586887955	5	6.80E+00
1.35E+01	-0.19613118	9	3.42E+00
1.10E+00	-0.42184695	4	2.89E+00
2.14E-05	1	20	2.03E-06
6.38E+00	-0.357239374	7	4.94E+00
1.79E-01	-0.371281345	3	1.92E+00
2.49E+00	-0.046127326	17	3.54E+00
1.99E+02	-2	4	2.52E+02
6.81E-03	2	4	5.63E-04
4.62E-01	0.690440383	2	1.50E-01
4.27E-01	0.267511541	1	3.89E-01
2.33E-01	0.49638411	8	9.79E-02
9.54E+01	0.064725981	7	7.63E-01
7.84E-02	-0.024986159	2	7.06E-01
3.39E-02	1	3	2.88E-02
2.05E-01	0.054371276	5	7.10E-01
8.35E+02	-1	9	2.37E+03
9.54E+04	-0.534967594	18	3.91E+02
7.10E+02	-0.503660885	10	2.41E+01

2.00E-07	2	27	5.21E-11
4.19E-01	0.126826846	1	4.95E-01
8.48E+00	-0.731732115	7	2.60E+01
6.72E-01	-0.029442746	5	9.54E-01
3.63E+00	0.397830547	4	2.33E-01
3.22E+03	-0.211516839	25	6.54E+01
3.49E-01	0.789564323	10	1.35E-02
2.21E+00	-0.005570923	12	1.60E+00
1.18E+07	-0.765557554	16	1.45E+03
2.50E+11	-1	24	6.12E+07
4.08E+02	-0.720621177	6	1.64E+01
1.58E+05	-3	6	2.36E+05
1.11E+11	-2	17	1.83E+07
3.14E-09	2	18	8.83E-08
1.10E+01	-0.086477552	2	8.07E-01
1.20E-01	0.171898099	11	4.86E-01
5.23E-03	1	9	1.38E-03
3.23E-05	2	6	2.12E-04
1.87E-01	0.270193981	7	3.07E-01
8.99E+00	-0.370010456	9	8.64E+00
2.69E-01	0.152812085	4	4.95E-01
1.57E-06	1	12	4.39E-04
3.69E-01	-0.231982802	12	7.29E+00
2.81E+05	-0.697686626	13	2.45E+02
7.72E+06	-2	15	4.55E+08
2.30E+07	-0.708700557	42	3.29E+07
1.05E+01	0.484096679	17	3.07E-02
3.03E+05	-0.298967576	45	1.56E+04
7.90E-02	0.886051489	3	7.15E-02
1.75E+01	-0.990672489	5	2.82E+01
6.19E+00	-0.453105404	4	3.18E+00
1.26E+00	-0.656052598	6	1.27E+01
2.19E+03	-0.931520767	14	2.16E+03
4.64E-01	-0.090997554	1	7.19E-01
5.29E+01	-0.011113033	11	1.52E+00
5.31E-01	-0.091858691	2	8.16E-01
1.90E+01	-0.40144713	15	5.02E+01
1.03E+01	-0.476656565	8	1.13E+01
3.24E+01	-0.136736396	11	3.33E+00
9.78E-02	0.109536667	9	6.69E-01
4.59E-02	0.310046347	7	2.57E-01
6.05E-01	0.110335297	10	6.89E-01
4.08E-01	-0.038089654	2	7.27E-01
4.38E-01	-0.015570453	1	6.32E-01
5.12E+01	-0.311829869	13	1.56E+01
3.40E+07	-0.880948902	24	1.83E+05
2.35E+00	0.355962369	25	5.19E-02

9.05E+00	-0.74779776	2	3.38E+00
3.16E-01	0.031832372	19	2.02E+00
6.10E+01	-0.467621577	11	2.63E+01
9.10E-01	-0.209432032	4	1.50E+00
2.92E+02	-0.802837275	7	3.56E+01
6.55E+01	-0.842903218	6	2.67E+01
4.87E+01	-0.597832196	10	4.15E+01
1.51E+02	-0.494014762	16	1.44E+02
2.67E-01	0.18307886	9	4.52E-01
2.79E-01	0.434920084	14	6.69E-02
1.36E-01	0.383502122	20	5.76E-02
9.55E-11	2	18	6.52E-10
2.99E-06	1	18	2.60E-06
5.81E+01	-0.256452712	4	1.74E+00
2.19E-01	0.271144947	7	3.06E-01
4.10E-07	2	17	1.13E-07
1.67E-01	0.514728807	6	1.21E-01
1.39E+00	-0.239075505	10	5.21E+00
4.60E-01	-0.044395617	1	6.64E-01
1.62E+06	-0.809361322	29	7.30E+05
1.32E-01	0.248372446	6	3.48E-01
3.91E+00	1	5	8.75E-03
9.47E-01	0.535423494	4	1.53E-01
2.82E+01	0.005179393	7	9.93E-01
3.87E-11	1	36	1.32E-09
2.06E-01	0.890687745	1	1.34E-01
1.24E+00	-0.195729537	4	1.44E+00
1.76E-04	1	18	6.68E-06
2.34E-23	1	99	4.79E-20
3.67E-08	2	15	5.79E-07
2.99E+00	0.599611588	8	5.91E-02
2.13E+02	-0.098917715	22	1.08E+01
3.64E+02	0.316508263	17	1.38E-01
2.22E-01	0.324122068	5	2.74E-01
1.46E-01	1	11	2.11E-03
1.33E+00	0.069277008	19	1.40E+00
5.31E-23	0.842986944	118	1.03E-16
3.41E-01	0.16623414	1	4.63E-01
1.98E-11	0.748621927	57	1.05E-07
7.57E-02	0.971988092	5	2.80E-02
7.74E-01	1	5	1.15E-02
5.90E-01	0.003269538	5	8.50E-01
7.40E-01	0.236375597	10	3.32E-01
5.71E-01	-0.005088344	4	8.03E-01
4.35E-01	-0.01525486	4	8.29E-01
1.39E-01	0.244030163	11	3.10E-01
4.53E-03	1	17	2.36E-05

7.87E-01	-0.146538467	13	4.78E+00
8.15E+00	-0.342065924	11	1.20E+01
8.91E-01	0.101488927	13	8.12E-01
8.64E+05	-2	13	3.30E+05
2.86E+00	0.159118378	10	5.20E-01
3.89E-01	0.48202824	4	1.80E-01
8.37E-02	2	6	2.15E-03
8.11E-05	0.68626626	21	2.02E-03
4.29E-01	0.04924331	1	5.66E-01
6.06E-08	1	35	5.82E-10
1.02E+00	-0.27425827	15	1.80E+01
9.53E-01	-0.552959774	12	6.25E+01
6.75E-09	2	19	2.35E-07
3.22E+00	0.518169218	6	1.19E-01
1.18E+02	-0.951801507	7	6.88E+01
4.98E-06	0.842171352	19	6.84E-04
7.78E+00	-0.125460877	11	3.11E+00
7.09E-01	-0.02398204	2	7.05E-01
7.07E-01	-0.274362638	15	1.81E+01
9.99E-01	-0.012081834	13	1.83E+00
4.04E-01	0	2	6.69E-01
2.28E+00	0.416369694	21	3.70E-02
5.43E-07	2	14	1.76E-05
2.35E-02	0.501143384	19	1.98E-02
5.49E-01	0.063609981	1	5.52E-01
4.13E-01	0.063205798	2	5.84E-01
9.04E-08	2	22	4.30E-08
6.34E-01	-0.001614735	6	9.41E-01
8.96E+00	-0.417895488	15	5.73E+01
1.96E+02	0.581619557	8	6.46E-02
4.90E-01	0.424325724	10	1.12E-01
1.98E-02	0.669102914	12	1.75E-02
1.63E+00	0.491515186	4	1.75E-01
6.16E-02	0.610848658	10	3.81E-02
2.70E+00	0.419227883	8	1.43E-01
2.08E+00	0.63278704	11	2.74E-02
9.38E+00	0.087973961	7	6.88E-01
9.08E-01	-0.10649926	9	2.12E+00
7.18E-02	1	12	1.67E-03
2.36E-04	2	7	1.02E-03
1.28E-06	2	8	1.02E-04
1.09E-03	1	7	1.69E-03
1.39E-35	2	63	1.30E-28
3.10E+00	-1	4	1.79E+01
6.35E+02	-0.568720792	9	2.50E+01
1.60E-01	-0.285095446	3	1.53E+00
7.01E-01	0.130612637	16	7.10E-01

1.80E-01	-0.149671016	5	1.46E+00
1.49E+05	-0.367630948	12	1.81E+01
2.02E-01	-0.030825994	9	1.42E+00
7.72E-07	1	26	8.78E-07
1.07E+04	-1	12	7.56E+03
4.96E-01	-0.560768954	2	2.25E+00
2.92E+01	-0.657045249	8	2.73E+01
3.47E+03	-0.295672004	32	8.63E+02
2.94E+16	-2	37	8.85E+12
1.68E+21	-2	45	2.94E+16
8.99E+01	-0.168289921	8	2.51E+00
1.86E+00	0.193036803	10	4.27E-01
1.50E+07	-2	13	2.10E+06
1.70E+07	-2	7	1.73E+04
3.85E+00	-0.591189076	3	3.42E+00
1.39E+03	-2	5	1.00E+03
2.66E+05	-1	11	1.58E+04
6.97E+02	-0.915044763	11	4.28E+02
1.16E+00	-0.94032101	3	8.53E+00
3.04E+00	-0.327442457	3	1.71E+00
4.66E-01	0	1	6.16E-01
5.14E+00	0.161609129	11	5.18E-01
4.04E-01	-0.001271951	5	8.64E-01
3.64E+00	-0.182887245	11	4.44E+00
6.12E+01	-1	6	1.91E+02
8.53E+00	-0.113257164	7	1.68E+00
1.29E+00	-0.197044661	7	2.43E+00
9.17E-01	-0.424279238	6	5.05E+00
2.41E-01	0.086620462	14	9.44E-01
4.56E-01	0.037088798	1	5.78E-01
5.84E+02	-0.511287045	31	1.88E+04
3.62E+00	-0.416419429	2	1.65E+00
8.56E+01	-1	7	3.19E+02
8.67E-02	1	3	3.06E-02
2.59E-02	0.512156153	9	7.81E-02
4.32E-07	1	15	2.72E-05
4.59E-05	2	5	7.65E-04
2.83E-04	2	7	1.09E-04
8.15E+00	-0.541727957	7	1.12E+01
4.27E-01	0.188039464	6	4.43E-01
2.58E+02	-0.601438999	16	3.59E+02
1.93E+04	-1	11	1.22E+04
2.55E+06	-0.521410228	29	1.16E+04
1.41E+02	-0.66102956	12	1.29E+02
9.02E-01	-0.2165117	2	1.07E+00
1.44E+00	-0.323868835	5	2.69E+00
5.51E-02	0.369394027	11	1.42E-01

6.43E-03	2	7	7.55E-04
4.60E+00	0.116916011	5	5.69E-01
3.40E-01	-0.099783967	3	9.45E-01
1.31E+00	-0.210851105	4	1.51E+00
1.29E+00	-0.319562936	6	3.33E+00
4.64E+00	-0.533627694	9	2.07E+01
8.36E-13	1	43	1.92E-11
4.38E-01	0	1	6.16E-01
3.45E-01	-0.029547589	13	2.07E+00
4.53E-01	0.014981106	2	6.48E-01
3.17E+00	-0.587615988	7	1.37E+01
1.60E+02	-0.254261147	9	4.66E+00
4.32E+02	-0.271575609	14	1.44E+01
1.92E+00	-0.167376249	17	1.05E+01
1.87E-03	0.740314653	22	8.78E-04
3.62E-01	2	4	7.38E-03
3.75E-01	0.176247611	10	4.71E-01
1.45E+10	-0.532314077	39	3.48E+05
5.26E+03	-0.701007125	27	6.88E+04
5.76E+04	-0.411835058	27	1.39E+03
7.26E-01	-0.26561346	2	1.19E+00
2.45E-02	0.662684508	8	4.35E-02
4.55E-01	-0.154474324	3	1.09E+00
2.66E+02	0.247264119	21	2.28E-01
3.67E+01	-0.441352191	13	3.93E+01
1.23E+00	-0.370162149	9	8.65E+00
3.27E-01	-0.394407858	2	1.57E+00
1.64E-03	1	12	2.47E-04
4.68E-06	2	13	5.10E-06
1.28E-03	0.998348541	16	4.43E-04
1.02E+00	0.630453324	6	7.62E-02
4.34E-01	0.037906984	5	7.52E-01
6.01E+08	-1	21	2.59E+06
2.16E+01	0.021047884	10	1.16E+00
5.56E-01	0.051879231	8	8.57E-01
8.24E-01	-0.228804836	5	1.93E+00
5.64E+03	-0.535528052	25	3.85E+03
7.14E+01	-1	6	8.90E+01
5.99E+01	-0.786859247	8	5.15E+01
4.54E-01	-0.034012295	4	8.78E-01
3.76E+00	-0.136626563	11	3.33E+00
2.64E+00	0.079002426	7	7.16E-01
2.48E+04	-0.538104225	17	2.90E+02
1.07E-02	2	12	8.77E-06
4.12E-01	0.735840294	14	6.80E-03
3.21E+01	0.167250172	20	5.36E-01
1.17E+00	-0.205003115	6	2.11E+00

2.33E+02	-0.992249607	8	1.40E+02
5.63E+00	-0.569645809	7	1.27E+01
2.90E+02	-2	6	8.56E+03
6.05E+00	-0.260814695	7	3.23E+00
7.79E-01	-0.697318194	2	3.03E+00
2.33E+01	-0.511843725	3	2.78E+00
1.77E+04	-0.941530013	12	8.42E+02
4.29E-01	-0.003196476	2	6.74E-01
1.09E+00	0.406589363	3	2.51E-01
7.02E-01	-0.056876059	2	7.57E-01
8.06E+02	-0.835377169	8	6.52E+01
1.01E+02	-0.352636611	16	4.32E+01
3.71E+00	-0.20013358	7	2.47E+00
1.45E+02	0.975248386	5	2.77E-02
2.32E+02	-0.388223197	10	1.23E+01
3.47E+03	-1	7	1.01E+02
9.48E-03	0.628448557	6	7.68E-02
6.71E-05	2	9	1.81E-05
6.86E+00	-0.438270483	3	2.29E+00
1.44E+24	-1	64	3.03E+16
2.82E-04	1	23	1.32E-06
2.27E-01	0.979029953	1	1.15E-01
1.52E+00	-0.125042638	4	1.16E+00
4.90E-04	0.548145331	37	6.42E-04
7.01E-01	-0.360915086	7	5.03E+00
6.88E-03	0.641602328	30	5.07E-04
2.28E-01	0.395808239	2	2.84E-01
4.00E+00	-0.526512912	5	5.50E+00
1.81E+02	-0.800415536	8	5.50E+01
1.21E+01	-0.117241205	6	1.49E+00
6.05E+00	-1	4	3.31E+01
4.19E-01	0	4	7.91E-01
5.92E-01	0	5	8.60E-01
9.19E+01	-0.440842098	15	6.90E+01
3.31E+07	-0.466230869	25	1.61E+03
2.77E+00	-0.342125596	4	2.26E+00
8.32E+00	0.672999279	11	2.13E-02
2.54E-01	1	2	5.14E-02
9.93E+01	0.045856682	11	1.07E+00
6.68E+01	-0.275502469	11	7.92E+00
1.41E+00	-0.727228549	1	2.14E+00
2.84E-01	0.473865823	8	1.09E-01
3.95E-02	0.522588717	5	1.36E-01
2.29E-01	0.349854389	5	2.51E-01
1.35E+02	-0.43531902	13	3.76E+01
1.50E+00	-0.048429849	18	4.02E+00
3.14E-03	0.457338589	25	1.45E-02

2.31E+00	-0.004620102	8	1.13E+00
1.18E-04	0.980377342	29	4.76E-06
3.88E-01	-0.006240382	4	8.06E-01
2.37E+02	-0.136442818	16	6.88E+00
2.88E+01	-0.97694166	3	9.39E+00
6.11E+00	-0.710903283	8	3.55E+01
2.19E+03	-2	7	1.90E+03
5.67E+02	-1	6	2.91E+02
7.49E+03	-1	7	2.09E+02
6.27E+00	0.489873362	5	1.53E-01
5.70E-01	0.172104099	3	4.64E-01
2.23E+00	-0.190180174	10	3.92E+00
2.40E-04	0.384575829	40	9.31E-03
8.85E+00	-0.95979531	3	8.98E+00
1.33E-02	0.499885997	11	6.27E-02
2.19E+00	0.10418907	7	6.41E-01
1.31E+00	-0.450929127	6	5.62E+00
6.77E+01	-2	6	6.59E+02
2.22E-01	0.223629225	31	2.47E-01
1.07E-04	2	10	8.30E-05
7.36E-01	-0.307102857	4	2.03E+00
2.09E+04	-1	13	2.39E+04
4.34E+00	-0.416232816	5	3.73E+00
6.21E-01	-0.059167297	4	9.48E-01
2.13E-01	-0.042514245	15	2.79E+00
1.33E+02	-0.308879594	11	9.75E+00
2.41E-07	1	26	3.43E-07
2.24E-02	2	1	1.95E-02
8.38E-02	0.91905237	1	1.28E-01
5.64E-02	0.650380895	11	2.45E-02
5.71E-01	-0.180961865	1	8.39E-01
7.08E-01	-0.140768335	2	9.08E-01
2.07E+03	-0.484340913	9	1.59E+01
3.04E-01	0.487228258	3	2.03E-01
3.75E-01	0.060490283	3	6.21E-01
2.42E+01	0.57941398	13	2.67E-02
5.36E+01	-0.230280277	14	1.05E+01
1.71E+02	-0.704007779	11	1.15E+02
1.07E+00	-0.233223542	2	1.11E+00
5.28E+02	-0.818854997	14	9.19E+02
5.16E-01	0.043848542	8	8.92E-01
2.53E-02	2	2	1.97E-02
2.44E-04	2	12	1.71E-05
1.87E-02	0.791463938	18	1.48E-03
1.04E-03	1	30	8.03E-09
2.83E+00	0.22757004	12	3.36E-01
2.37E+01	-0.165624542	18	1.21E+01

4.47E+00	-1	2	9.42E+00
4.00E-01	-0.020652988	8	1.22E+00
2.42E-01	-0.118071991	8	1.97E+00
3.89E+00	0.146144153	10	5.60E-01
9.05E+04	-2	8	2.33E+04
5.18E-01	-0.09541252	4	1.06E+00
4.07E+00	-0.86949545	9	1.24E+02
2.56E+00	-0.327456006	2	1.36E+00
4.98E-01	0.023403103	3	6.84E-01
4.35E-01	0	1	6.16E-01
3.28E-01	-0.421851518	7	6.58E+00
5.41E-01	-0.156165204	2	9.38E-01
6.28E-01	-0.068778996	1	6.93E-01
4.20E+00	-0.867987935	3	7.06E+00
6.99E-01	-0.429418962	3	2.24E+00
7.93E-01	-0.337693678	6	3.58E+00
5.49E-01	0.028014494	3	6.76E-01
4.93E+01	-0.371082277	19	1.08E+02
9.13E-03	1	10	2.83E-03
1.26E+06	-0.718679787	15	6.46E+02
2.05E-05	0.940566292	11	4.01E-03
6.26E-03	0.873696653	12	4.45E-03
1.71E-01	0.824592032	4	6.29E-02
3.00E-04	1	16	6.95E-06
1.64E+07	-0.838394895	17	4.28E+03
3.93E-01	0.733514142	5	6.49E-02
3.27E-03	0.81747552	12	6.49E-03
4.23E-01	-0.024300073	3	7.75E-01
3.03E-02	1	9	1.23E-03
2.00E+00	0.172487922	40	5.66E-01
5.19E-01	-0.130462145	3	1.02E+00
2.46E+07	-0.519310621	35	7.60E+04
6.26E+00	-0.307759303	6	3.18E+00
2.41E+01	0.26579075	9	2.91E-01
2.39E-03	0.772617596	10	1.49E-02
3.93E-03	0.716694631	12	1.27E-02
4.70E+07	-1	22	8.36E+06
4.47E-01	0	1	6.16E-01
3.99E+00	-0.192635587	11	4.72E+00
3.44E+01	0.543147973	14	2.94E-02
4.32E+00	-0.673706488	2	2.88E+00
8.39E+02	-0.860196254	16	3.24E+03
3.04E-02	1	12	1.04E-04
6.26E-02	0.790131887	11	1.02E-02
9.95E+02	-0.652840816	14	2.60E+02
5.04E+00	-0.291716348	2	1.26E+00
8.58E-01	0.053023972	10	9.61E-01

2.61E+00	0.482981204	5	1.57E-01
3.98E-02	0.460882641	41	1.87E-03
5.80E-12	2	28	2.91E-11
4.88E+01	-0.043249757	13	2.28E+00
1.81E+02	-0.464143287	12	3.45E+01
3.13E+00	0.070540255	14	1.07E+00
2.88E+00	-0.375933112	10	1.15E+01
3.92E+01	-0.77282068	6	2.02E+01
5.12E-01	-0.055284294	1	6.77E-01
5.31E-03	2	17	1.55E-06
8.53E-01	-0.189552938	12	5.49E+00
4.11E-01	0.109967761	12	7.39E-01
8.24E-02	2	3	1.42E-02
1.09E-01	0.640682158	8	4.84E-02
1.35E-03	1	8	1.97E-03
1.46E-01	0.240844161	8	3.41E-01
1.04E+05	-2	17	7.62E+06
8.94E-01	0.203630271	5	4.20E-01
1.47E+00	0.101609276	6	6.24E-01
1.48E-04	1	19	7.39E-05
2.88E-03	2	2	5.50E-03
2.63E-05	2	15	3.96E-06
1.57E+00	-0.183276268	11	4.45E+00
1.09E+03	-0.733954629	20	5.84E+03
1.01E-01	0.383535569	21	5.26E-02
4.29E-01	0	2	6.69E-01
2.17E+00	-0.138203324	7	1.87E+00
3.38E+00	-0.204050103	11	5.07E+00
6.28E+00	-0.675708844	11	9.62E+01
1.09E-05	1	14	6.59E-05
1.37E+04	0.414728649	15	7.03E-02
6.58E-07	2	9	2.66E-05
8.60E-04	0.18211841	12	4.56E-01
5.74E+00	-0.145134741	7	1.93E+00
7.61E+02	-0.250286827	35	7.62E+02
9.19E+06	0.032741709	81	1.42E+02
2.04E-04	2	10	8.96E-05
3.62E+00	0.576364492	3	1.61E-01
7.12E-02	0.201378152	25	3.63E-01
5.91E+04	-0.782997939	16	1.68E+03
9.28E+00	-0.433669374	8	9.18E+00
1.02E+01	0.524776638	8	8.52E-02
2.37E-02	0.82955664	11	8.01E-03
2.03E+00	0.683841118	15	8.05E-03
6.82E+05	-0.583142202	20	1.23E+03
4.85E-01	-0.25797738	3	1.43E+00
1.89E-07	0.908700815	32	5.00E-06

4.07E-04	1	13	4.90E-04
9.83E+04	-2	7	3.20E+03
5.93E-04	0.568371138	13	2.89E-02
1.22E+03	-0.931387055	13	1.30E+03
1.55E+05	-0.114284693	16	5.70E+00
1.78E-21	1	85	2.47E-15
2.34E-31	2	55	8.73E-24
1.14E+02	-0.448200843	14	5.49E+01
1.16E+02	-0.706173714	8	3.47E+01
5.54E-01	-0.010585278	3	7.48E-01
1.31E+00	0.959339935	5	2.93E-02
5.07E+00	-0.47382794	4	3.39E+00
2.58E-01	0.582246089	11	3.75E-02
4.55E-01	0.044317369	2	6.08E-01
7.22E-03	1	8	2.41E-03
4.81E-03	2	4	9.21E-04
1.41E+01	-0.698229079	6	1.50E+01
4.29E-01	-0.044290766	2	7.37E-01
4.83E-01	-0.000600747	1	6.16E-01
1.05E+01	-0.293888251	5	2.42E+00
1.09E-03	2	11	7.41E-05
1.45E-01	0.093709714	11	7.91E-01
4.44E-03	0.712228567	8	3.41E-02
1.03E-01	0.174481507	7	4.69E-01
3.44E-01	0.759979255	14	5.66E-03
8.55E-01	-0.014150698	11	1.55E+00
4.16E+10	-1	31	2.02E+09
3.74E+01	-0.833258438	4	1.02E+01
2.06E-02	0.420484618	6	1.76E-01
4.81E-11	2	19	5.39E-10
9.25E-01	0.473936763	14	4.98E-02
8.55E-01	-0.058680679	2	7.60E-01
1.33E+02	-0.1564138	8	2.37E+00
1.14E+00	0.245652727	7	3.42E-01
9.43E-01	0.125887999	8	5.97E-01
2.88E+01	-2	2	2.09E+01
6.77E+00	0.30605054	11	2.10E-01
3.59E+01	-0.802462738	10	1.36E+02
5.93E+00	-0.015708048	9	1.31E+00
9.01E-01	-0.348575282	6	3.74E+00
1.98E+00	-0.399326509	2	1.59E+00
1.53E+00	-0.620865681	3	3.70E+00
5.58E-01	-0.076076465	5	1.12E+00
6.87E+15	-2	30	3.57E+12
5.77E+00	-0.077765195	20	6.71E+00
3.51E+00	0.231747435	11	3.34E-01
4.27E+01	-0.366622327	3	1.90E+00

1.05E+01	0.350718359	32	3.27E-02
6.04E+02	-0.382420672	8	7.15E+00
1.60E+01	-0.210106223	9	3.68E+00
2.95E+00	-0.715169545	8	3.63E+01
6.08E-01	-0.039635343	2	7.29E-01
7.53E+01	-0.288833931	5	2.38E+00
6.97E+00	0.444387911	18	3.89E-02
4.38E-02	-0.22290636	20	3.00E+01
7.33E-01	-0.359363822	5	3.05E+00
1.31E+00	-0.118012835	10	2.58E+00
6.67E+04	-0.515075507	27	5.61E+03
3.27E-02	0.376996552	27	3.35E-02
2.29E+00	-0.000411232	14	1.83E+00
1.48E-02	0.507414451	36	1.55E-03
3.28E-01	0.013968689	7	9.55E-01
1.07E-01	0.391314436	7	1.80E-01
8.18E+00	-0.298421548	7	3.81E+00
3.04E+02	-0.837192504	8	6.58E+01
4.51E+00	-0.59640102	2	2.43E+00
4.72E+01	-0.768261459	11	1.71E+02
2.78E+02	-0.438054174	10	1.65E+01
4.23E-01	1	3	3.64E-02
4.70E+03	-0.692637308	20	3.81E+03
1.27E+00	0.110398485	5	5.83E-01
6.13E-03	0.831669808	11	7.91E-03
3.99E-04	1	12	2.24E-04
2.12E+00	0.073717187	3	6.00E-01
1.66E+00	-0.546944588	3	3.05E+00
1.07E+00	-0.10445101	17	5.97E+00
1.04E+00	-0.009094832	6	9.69E-01
2.48E+01	-0.437002971	13	3.81E+01
9.31E-01	0.090762976	16	9.96E-01
4.95E-02	0.815720868	20	6.67E-04
9.07E+06	0.094284323	88	1.83E+01
2.13E+02	-0.933355875	7	6.34E+01
5.48E+01	-0.467146137	4	3.32E+00
2.89E-01	0.068188001	4	6.41E-01
5.19E-04	0.900633788	12	3.72E-03
7.96E+07	-1	18	9.04E+04
9.36E-03	-0.053077447	21	5.79E+00
5.14E-01	0.120390613	4	5.46E-01
7.59E-01	0.336660251	2	3.23E-01
1.00E+00	-0.050345081	1	6.71E-01
5.14E+00	0.261822726	6	3.30E-01
2.41E+01	0.421277137	13	8.26E-02
8.95E-04	0.792116247	29	7.15E-05
8.84E-01	0.455163855	1	2.82E-01

1.85E+00	-0.022285637	1	6.40E-01
3.04E+00	-0.456340356	2	1.80E+00
6.65E+02	-0.801085456	8	5.52E+01
9.44E+15	-2	41	3.99E+16
4.76E-01	1	3	1.94E-02
1.35E+00	-0.097446959	17	5.61E+00
5.67E-01	0	3	7.28E-01
3.89E-05	0.658992592	51	4.30E-06
8.91E-04	1	7	3.86E-03
1.64E-05	2	9	2.90E-04
9.46E+00	0.170681324	18	5.11E-01
4.17E-05	3	5	1.27E-05
4.11E+01	-0.696273324	6	1.49E+01
2.06E+00	-0.008233166	17	2.52E+00
6.98E-01	-0.230254127	9	4.10E+00
7.56E-01	-0.020690195	4	8.43E-01
5.17E+06	-0.907449075	19	2.13E+04
1.88E+01	-0.276085534	8	4.25E+00
8.41E-01	-0.722334246	1	2.12E+00
2.97E+04	-0.604568844	30	5.48E+04
1.41E-05	1	19	1.18E-06
2.05E-01	0.730700864	11	1.49E-02
9.66E-01	-0.313345139	6	3.25E+00
2.03E+03	-0.368630246	12	1.82E+01
1.35E-07	1	16	6.90E-05
1.48E+02	-0.253486555	10	5.66E+00
7.57E-01	-0.018711682	9	1.33E+00
9.21E-18	2	34	9.45E-14
9.65E-09	2	13	3.04E-08
1.15E-02	1	9	5.70E-03
4.07E-01	0.007869222	4	7.72E-01
4.66E-01	0.08705934	7	6.91E-01
2.29E-02	0.021652744	6	8.58E-01
1.58E+01	-0.139222035	11	3.38E+00
4.42E-01	0.209317182	2	4.25E-01
4.18E+05	-2	15	1.21E+07
1.32E+04	-0.856149945	24	1.36E+05
1.92E-01	0.091465648	3	5.73E-01
6.21E-01	0.564480124	4	1.40E-01
4.30E-04	1	12	6.17E-04
9.42E-01	-0.075248389	4	9.96E-01
1.11E+00	-0.211060894	9	3.70E+00
1.44E+02	-0.371518287	7	5.27E+00
7.61E-06	1	16	5.30E-05
1.27E-01	0.778912762	6	4.22E-02
7.06E+00	-0.726787086	6	1.68E+01
5.10E-03	0.676925172	29	3.75E-04

2.48E+00	-0.178882449	16	9.87E+00
1.89E+03	-0.516640381	8	1.38E+01
1.85E+00	-0.428304368	11	2.05E+01
9.82E-03	1	11	1.54E-03
4.41E-01	-0.387900701	2	1.55E+00
3.26E+00	-0.360007966	5	3.06E+00
2.53E+00	-0.658339356	3	4.08E+00
2.27E+00	-0.675092345	9	4.40E+01
1.32E+00	-0.116914053	4	1.13E+00
6.22E+04	-0.642590884	19	1.57E+03
1.42E+02	0.0165126	11	1.28E+00
1.84E-01	0.340712775	13	1.47E-01
3.39E+00	-0.77667475	3	5.56E+00
5.55E+02	0.05211921	26	2.52E+00
6.55E-07	1	17	8.36E-06
4.49E+04	-0.119012109	26	2.34E+01
4.88E+00	1	2	3.25E-02
3.37E+05	-3	9	7.16E+06
1.16E+02	-0.685478908	4	6.49E+00
8.61E-01	-0.039801036	6	1.09E+00
2.77E+01	-0.85204544	6	2.77E+01
4.97E+06	-2	12	6.14E+06
4.60E+01	0.034638981	7	8.72E-01
1.82E+01	-1	4	2.23E+01
1.90E+01	0.211487457	7	3.98E-01
1.90E-01	-0.094835193	12	2.91E+00
8.94E-01	0.159018705	6	4.97E-01
2.38E-02	1	13	4.71E-05
3.76E+01	-0.064407022	15	3.33E+00
2.26E+04	0.15015925	16	6.01E-01
6.27E+06	-0.877763133	21	4.17E+04
8.73E-01	0.127956892	18	7.64E-01
5.01E+02	-2	4	1.51E+02
1.87E+01	-0.946899475	3	8.68E+00
2.68E+00	-0.386259401	2	1.54E+00
3.68E+01	-1	3	3.22E+01
9.03E-06	1	20	4.54E-06
6.09E-01	0.598868797	9	4.92E-02
7.39E-02	0.618594952	6	7.99E-02
3.75E-01	0.236671979	1	4.10E-01
1.07E+02	-0.187307687	10	3.86E+00
9.30E+00	-0.503161424	5	5.06E+00
7.57E-02	0.755496731	9	2.13E-02
5.08E-01	0.215499062	6	3.97E-01
2.68E+00	0.245374087	6	3.52E-01
2.09E+00	-0.056922892	2	7.57E-01
6.48E-10	2	20	1.15E-07

1.29E+02	-0.227138335	18	2.16E+01
3.56E+08	-2	13	3.90E+06
3.81E+01	-0.138387035	13	4.51E+00
2.91E-01	-0.150010143	2	9.26E-01
4.34E-01	0	1	6.16E-01
3.47E+01	-0.8609496	2	4.32E+00
6.48E+00	0.176976532	3	4.58E-01
6.75E-01	0.034295204	3	6.65E-01
5.83E+01	-0.074424041	6	1.26E+00
5.04E-01	-0.012213957	2	6.87E-01
6.26E-01	-0.205127666	3	1.24E+00
9.70E-01	-0.053848652	6	1.16E+00
1.08E-04	1	9	5.13E-04
1.11E+01	0.022829604	9	1.06E+00
4.79E+01	-0.164573214	5	1.54E+00
6.82E+00	0.479152083	5	1.59E-01
2.59E-01	0.80076358	1	1.56E-01
7.18E-04	1	13	1.65E-04
6.56E+01	-0.518996611	13	6.84E+01
3.63E+00	-0.150382179	4	1.26E+00
2.64E+00	0.688108574	11	1.94E-02
1.18E-01	0.405347899	4	2.28E-01
3.39E+02	0.06440185	14	1.12E+00
2.31E-04	0.973653916	19	1.87E-04
2.64E-03	0.66650483	18	4.81E-03
3.65E+01	-0.00721359	7	1.05E+00
7.99E-04	0.423379271	8	1.40E-01
1.23E+01	-0.019468079	20	3.68E+00
2.32E+01	-0.231555287	16	1.54E+01
7.06E+04	-0.790925983	18	4.35E+03
1.11E+02	-0.663919982	13	1.93E+02
1.95E+02	-0.449130865	20	3.09E+02
1.02E+00	-0.198065522	7	2.44E+00
1.14E+01	0.143572802	8	5.48E-01
1.08E+01	-0.128282814	7	1.79E+00
5.75E-01	-0.516394616	6	7.29E+00
6.16E+03	-1	11	2.39E+03
2.48E+04	-0.991462777	14	3.41E+03
6.04E+02	-0.057409751	15	3.15E+00
8.16E-01	-0.027139462	3	7.81E-01
2.93E+00	0.464059433	4	1.90E-01
1.09E+00	1	9	4.40E-04
3.78E-01	1	2	3.04E-02
6.82E-01	0.043372075	5	7.38E-01
6.49E-01	-0.042672355	3	8.14E-01
6.69E-01	-0.257395919	1	9.57E-01
1.87E-06	1	14	5.18E-05

1.21E+00	0.090789821	6	6.51E-01
2.40E-02	0.963988198	6	2.02E-02
1.46E+02	-0.210470621	18	1.85E+01
2.37E+07	-1	14	2.69E+04
6.45E-01	0	4	7.91E-01
6.82E+05	-2	18	4.98E+06
2.16E+00	-1	6	9.61E+01
3.45E-03	1	3	2.25E-02
8.08E-04	2	4	9.67E-04
4.36E-01	0	1	6.16E-01
1.45E+13	-0.831456371	47	3.96E+09
1.20E+02	-0.675590978	8	2.99E+01
6.51E-01	0	2	6.69E-01
4.47E-01	0.024915686	1	5.90E-01
1.14E+00	-0.529978077	1	1.53E+00
5.37E+01	-0.769460485	13	4.10E+02
4.09E+01	-0.010705252	8	1.16E+00
4.45E-01	-0.009684184	1	6.26E-01
4.74E-01	-0.007263138	2	6.80E-01
3.17E+01	-0.511545427	13	6.49E+01
1.11E+08	-0.943712139	26	1.09E+06
5.21E-01	-0.151438787	4	1.26E+00
1.41E+00	-0.172297175	7	2.18E+00
6.92E-01	0	1	6.16E-01
1.13E+02	-1	6	1.18E+02
5.77E+05	-2	15	3.89E+05
2.26E+06	-0.879453581	13	8.99E+02
3.03E+06	-1	15	4.51E+04
2.99E-01	0.583298192	15	1.81E-02
6.53E-01	-0.243001886	9	4.39E+00
5.94E+00	-0.208606074	18	1.81E+01
2.11E+01	-0.531767962	9	2.05E+01
4.35E+02	-2	7	1.78E+03
3.88E+01	-0.938983779	6	3.91E+01
1.13E+02	-1	6	3.10E+02
1.09E+02	-0.211703043	22	3.83E+01
1.30E+02	-0.540838215	11	4.15E+01
2.06E+01	-0.8501725	5	1.72E+01
4.31E-03	0.842132084	33	1.06E-05
1.25E+01	-0.244744509	7	3.00E+00
5.19E-09	2	22	2.37E-10
2.67E-06	0.904248719	27	2.73E-05
1.32E+01	0.896094406	5	3.66E-02
1.73E+00	-0.507757997	3	2.75E+00
2.88E-01	-0.750413843	6	1.85E+01
3.98E+07	-0.62039809	13	1.41E+02
1.20E+00	-0.056826819	9	1.63E+00

1.19E+00	-0.312523426	11	9.98E+00
3.22E+00	-0.234096936	14	1.08E+01
9.37E+00	-0.402687628	10	1.34E+01
9.80E-01	-0.027609488	7	1.15E+00
4.83E+05	-1	15	1.32E+05
1.86E+04	-0.666914355	21	4.30E+03
4.66E+03	-0.614974506	13	1.36E+02
9.70E+05	-0.939878433	28	2.87E+06
4.10E+03	-0.979758337	6	4.60E+01
3.68E+01	-0.363967754	14	2.90E+01
6.51E+00	-0.831748239	6	2.55E+01
1.45E-04	0.923947085	20	2.18E-04
1.94E+00	-0.100189551	7	1.58E+00
1.13E+02	-1	9	3.90E+02
1.22E-01	0.721003558	9	2.56E-02
1.97E-04	0.88883284	13	2.93E-03
1.33E-02	1	9	2.25E-03
8.52E+10	-2	18	4.95E+08
4.15E+02	-0.989946195	9	2.36E+02
7.34E-01	-0.132465352	11	3.24E+00
2.40E+00	-0.030145346	10	1.55E+00
9.47E-01	0.515381509	13	4.22E-02
9.48E+00	-0.49475043	9	1.68E+01
1.88E-04	1	8	1.56E-03
2.16E+10	-0.308302867	53	1.14E+05
1.97E-01	0.735069877	15	5.33E-03
4.89E-01	-0.034626864	2	7.21E-01
8.61E+01	-0.59172458	8	1.99E+01
8.68E+01	-0.392946892	7	5.79E+00
5.23E+08	-2	12	2.75E+06
5.52E-01	0.000525819	4	7.90E-01
6.29E-06	1	31	2.61E-08
3.57E+00	-0.209892063	5	1.80E+00
2.81E+04	-2	8	8.29E+03
7.28E+03	-2	5	4.82E+02
1.87E+02	-0.915843498	16	5.20E+03
8.80E+00	-0.893265813	4	1.23E+01
1.50E+02	-0.607649897	18	7.75E+02
7.82E-01	-0.267975322	2	1.20E+00
8.91E+03	-2	7	1.44E+04
4.28E+00	-0.161912629	4	1.30E+00
2.99E-03	0.674243424	17	5.58E-03
1.65E-01	0.547971452	5	1.25E-01
1.97E+00	-0.676181222	8	3.00E+01
2.56E+00	0.36185736	2	3.06E-01
4.41E-01	-0.147289094	7	1.95E+00
4.11E-01	-0.049005669	4	9.19E-01

2.98E+01	-0.304224809	5	2.51E+00
1.93E+03	-0.116225887	12	3.36E+00
4.97E+01	-0.98739567	6	4.74E+01
4.11E-01	0	4	7.91E-01
4.72E-04	1	22	8.46E-06
4.85E-01	-0.050167254	2	7.46E-01
4.51E-01	0.061527106	5	6.92E-01
4.32E-01	0.006347492	1	6.09E-01
1.00E+03	-0.502806835	19	3.94E+02
9.75E+00	-0.670305522	9	4.29E+01
2.12E+00	-0.26447263	7	3.28E+00
1.17E+05	-0.174954218	14	6.89E+00
4.17E-02	0.510429018	9	7.89E-02
4.14E-03	1	12	7.33E-04
1.27E-13	2	29	1.09E-12
8.02E-03	0.856062116	9	1.25E-02
4.30E-01	0.011225343	4	7.64E-01
5.05E+00	-0.938110201	5	2.34E+01
1.19E+07	-3	13	1.47E+08
5.50E-01	-0.095395444	4	1.06E+00
4.96E-01	-0.07681816	1	7.02E-01
6.35E+00	-0.297265305	15	2.17E+01
3.31E+06	-1	16	1.63E+04
3.89E-01	0.807001595	2	1.17E-01
5.98E-07	2	15	6.01E-07
8.04E-02	0.252443631	17	2.44E-01
9.74E+00	-0.464062131	9	1.43E+01
2.13E+00	-0.422183234	7	6.59E+00
2.81E+03	0.519464776	13	4.10E-02
4.26E+01	-0.316669744	10	8.16E+00
2.85E-01	-0.165874474	5	1.54E+00
4.23E-01	-0.086345165	2	8.07E-01
1.08E+00	-0.048429863	11	1.92E+00
1.83E+01	0.023299957	14	1.53E+00
4.27E-01	-0.029523848	2	7.13E-01
3.82E+03	-0.89377836	14	1.62E+03
1.41E+03	-0.976628558	9	2.20E+02
4.48E-01	0	1	6.16E-01
1.21E+09	-0.640493399	38	1.85E+06
2.84E+02	-1	4	4.86E+01
5.06E+01	-0.457261626	8	1.03E+01
8.51E+13	-1	30	2.24E+10
4.32E+02	-2	7	1.81E+03
1.74E+05	-0.299035492	26	2.45E+02
5.24E-02	1	14	2.15E-04
1.91E+00	-0.250105887	3	1.40E+00
1.80E+02	-0.975748867	5	2.68E+01

7.10E+00	0.241132419	3	3.87E-01
1.93E-01	0.740201831	8	2.98E-02
1.35E+06	-0.145576441	21	1.57E+01
5.01E-01	0	3	7.28E-01
3.76E+00	-0.2307571	8	3.41E+00
1.23E+00	0.326067518	6	2.56E-01
8.57E-09	1	27	1.36E-07
2.54E-02	0.594222655	18	9.50E-03
1.81E+07	-0.058372355	18	4.41E+00
4.36E+08	-0.086627196	42	1.10E+02
6.96E-02	0.421358525	5	1.95E-01
2.16E-03	2	4	3.04E-03
1.49E+00	0.180343873	13	4.62E-01
1.21E+00	-0.204801399	3	1.24E+00
9.82E-02	0.479686951	8	1.06E-01
3.35E-11	2	22	3.39E-12
1.27E+00	0.115692878	6	5.90E-01
3.83E-01	-0.098188807	5	1.22E+00
7.65E-03	1	14	8.88E-05
6.42E-01	-1	1	4.75E+00
2.98E+00	-0.608574668	5	7.34E+00
9.72E-01	-0.993942779	1	3.38E+00
1.91E+00	-0.341836912	2	1.40E+00
1.92E+01	-0.228923712	2	1.10E+00
4.65E-01	0	1	6.16E-01
4.20E+01	-0.97505028	4	1.58E+01
4.25E-01	-0.694806313	1	2.02E+00
8.78E-05	3	6	2.66E-05
5.79E-03	2	3	5.75E-03
1.18E-01	0.958319184	5	2.94E-02
2.01E+00	0.349415757	22	7.05E-02
5.24E+01	-1	6	1.33E+02
1.16E+00	-0.533806888	4	4.07E+00
6.63E-01	-0.051577029	3	8.33E-01
8.16E+01	-0.166712869	25	3.72E+01
3.27E+00	-0.034854399	6	1.07E+00
7.29E-01	0.390522519	9	1.50E-01
4.21E-01	0	2	6.69E-01
4.02E-01	-0.013606512	2	6.89E-01
5.07E-01	-0.039435953	2	7.29E-01
6.72E-01	0.836579154	4	6.06E-02
6.32E-01	-0.076743241	5	1.13E+00
5.61E-01	-0.007641337	4	8.10E-01
3.59E+00	-0.276127015	10	6.45E+00
8.97E-01	0.47824857	3	2.08E-01
5.23E-01	0.076260093	3	5.96E-01
4.63E-01	0.038699344	4	7.02E-01

1.61E+00	0.109806602	5	5.84E-01
8.16E-01	0.0001888	6	9.34E-01
9.00E-01	0.727718427	9	2.47E-02
4.72E+00	0.519605701	13	4.09E-02
2.92E-01	0.548365167	23	6.42E-03
3.66E-02	0.814803647	7	2.75E-02
4.59E+02	-0.525990511	11	3.78E+01
4.36E-01	0.148713807	8	5.34E-01
4.40E-01	0.011520526	2	6.53E-01
1.32E+01	-0.084657828	5	1.16E+00
1.87E+05	0.274103088	32	1.09E-01
4.88E-01	0.033766816	1	5.81E-01
1.68E+01	-0.87429594	6	3.02E+01
3.32E+17	-1	42	2.29E+11
2.70E-01	2	8	1.89E-05
2.29E+00	-0.058667165	8	1.47E+00
6.48E-01	-0.766144061	3	5.41E+00
1.06E+02	-1	8	8.27E+02
1.42E+02	-0.7348548	7	2.63E+01
2.25E+03	-0.64888918	12	1.19E+02
7.01E+00	-0.36319901	12	1.75E+01
4.30E+00	0.00713096	7	9.85E-01
4.71E+01	-0.630526036	7	1.66E+01
8.73E-01	-0.335735121	3	1.75E+00
5.49E+00	0.47407479	6	1.42E-01
2.49E+01	-0.381135875	7	5.50E+00
6.57E+03	-0.685706953	10	6.91E+01
4.00E+05	-0.538597142	23	2.08E+03
1.63E+02	-1	1	7.87E+00
4.27E+05	0.333426153	33	4.02E-02
2.33E-02	2	7	3.22E-04
1.30E-08	2	23	2.64E-09
4.93E-01	0.84094923	3	8.05E-02
8.18E-08	2	25	3.96E-09
4.02E-01	-0.076539366	1	7.02E-01
2.33E-01	-0.422686519	3	2.20E+00
2.18E+00	0.564101681	3	1.66E-01
9.82E-04	0.328580969	73	3.20E-03
8.62E-01	-0.183184456	7	2.29E+00
1.01E+01	-1	5	3.59E+01
4.95E+01	-0.667465056	8	2.87E+01
1.14E+00	0.346678374	9	1.89E-01
1.15E-04	0.914302101	12	3.39E-03
4.90E-04	2	9	1.08E-04
3.97E+02	-0.030895247	14	2.31E+00
2.85E-05	0.390239151	38	1.00E-02
4.61E-01	-0.027660466	2	7.11E-01

3.21E-04	1	14	1.18E-04
3.69E-01	0.165099074	1	4.64E-01
1.13E+11	-0.884322827	29	2.15E+06
3.34E+00	-0.048370668	7	1.26E+00
3.75E+00	-0.484145463	6	6.41E+00
2.83E+02	-0.387005179	13	2.66E+01
4.90E-01	-0.042489895	2	7.34E-01
2.45E+01	-0.109668067	22	1.22E+01
1.68E+05	-1	10	1.42E+03
1.99E+00	0.538257678	6	1.10E-01
3.67E+00	1	3	2.66E-02
1.47E+02	1	20	1.08E-06
8.99E-03	0.883276322	11	5.73E-03
3.00E+01	0.44449473	15	5.53E-02
6.97E-01	0.249894708	2	3.90E-01
1.99E+00	-0.120555677	7	1.73E+00
1.72E+00	-0.017763926	8	1.20E+00
3.71E-01	0.284344829	8	2.76E-01
5.17E-07	2	11	1.89E-06
6.83E+00	-0.021458229	14	2.15E+00
2.44E+02	-0.725331445	3	4.86E+00
4.88E+02	-0.741911289	9	6.29E+01
2.12E+01	-0.849387679	4	1.07E+01
3.09E-04	0.617507539	64	9.24E-07
1.72E+00	-0.122371403	2	8.72E-01
2.34E+04	-2	6	5.71E+03
4.20E-01	0	3	7.28E-01
2.03E+00	0.075086146	5	6.60E-01
1.78E+02	-0.715124566	9	5.45E+01
1.17E-02	0.818726562	6	3.60E-02
2.32E-01	0.402297546	4	2.30E-01
7.62E+03	-0.762474579	15	9.19E+02
2.11E+00	-0.596471785	5	7.03E+00
6.43E+00	-0.459034976	5	4.33E+00
3.79E+19	-2	30	1.98E+14
4.20E-01	0.199648712	3	4.31E-01
4.85E-01	-0.137397907	6	1.61E+00
2.77E-02	1	11	6.05E-04
5.99E+00	-0.201735218	8	2.96E+00
5.74E-01	0.359015757	2	3.08E-01
6.60E+03	-1	14	6.37E+03
1.01E+01	-0.105243984	16	5.27E+00
1.13E-01	1	1	4.92E-02
9.70E-03	1	9	2.38E-03
1.88E-05	0.849211687	29	3.15E-05
1.45E-01	0.685934512	1	1.90E-01
7.26E-01	0.58527684	5	1.09E-01

1.83E+03	-0.496453632	15	1.08E+02
2.06E+00	-0.317756404	4	2.10E+00
3.91E+10	-1	23	1.47E+07
1.48E+00	-0.205438276	10	4.29E+00
3.49E-01	-0.033016553	2	7.19E-01
6.35E-01	-0.048412	4	9.18E-01
3.01E-01	0.895908605	5	3.66E-02
1.13E-01	-0.060901959	9	1.66E+00
1.07E+01	0.653980734	6	6.94E-02
1.19E-01	0.631667241	8	5.06E-02
1.60E+01	-0.276628232	20	5.22E+01
5.70E-02	0.745633748	10	1.74E-02
2.06E-01	0.782842498	3	9.37E-02
1.42E-06	0.59922941	22	4.28E-03
2.72E+01	-0.515422538	10	2.58E+01
1.61E+03	-0.968817237	9	2.11E+02
3.13E+02	-0.699574057	12	1.67E+02
3.71E-01	0.276529781	5	3.25E-01
1.47E+00	-0.216887215	2	1.07E+00
6.68E-01	-0.015419901	2	6.92E-01
7.86E+02	-0.999355304	5	2.91E+01
2.04E-01	0.875735823	6	2.87E-02
4.63E-06	2	9	9.02E-05
1.96E-05	2	6	9.56E-04
5.62E-07	3	8	4.08E-06
1.16E+01	0.948980445	11	3.80E-03
1.31E+02	-0.443033366	20	2.91E+02
2.14E+01	-1	5	5.95E+01
2.79E+00	-0.075811471	6	1.26E+00
2.93E-01	0.464745041	42	1.53E-03
1.74E+00	-0.323425712	7	4.26E+00
6.06E+00	-0.82342923	4	9.91E+00
7.39E-02	-0.28741902	2	1.25E+00
1.69E+00	-0.24592084	1	9.38E-01
3.05E+00	-0.704635014	3	4.60E+00
3.15E+01	-0.214826241	10	4.53E+00
5.19E+03	-0.207950209	11	5.20E+00
2.57E+01	-0.596627615	14	1.70E+02
1.41E+00	0.077931759	6	6.86E-01
1.12E-01	0.189242613	10	4.37E-01
5.56E+04	-1	11	8.04E+02
4.63E-01	0.310242769	24	9.77E-02
5.21E+00	-0.035214163	19	3.92E+00
2.62E-01	0.964348776	6	2.02E-02
2.56E-01	0.616214267	3	1.45E-01
1.52E+00	0.130773926	22	8.20E-01
7.35E+00	0.508810238	8	9.21E-02

5.87E+00	0.173813885	3	4.62E-01
4.66E+01	-0.623336073	11	6.94E+01
4.81E-01	-0.023969681	3	7.75E-01
5.70E-01	-0.01649781	2	6.94E-01
7.39E+01	-1	7	1.17E+02
7.24E+00	-0.788390864	4	8.90E+00
4.45E+01	-1	3	1.26E+01
2.17E+03	-0.830442404	10	1.60E+02
7.06E-01	0	2	6.69E-01
1.66E+06	-0.917770667	19	2.36E+04
6.00E-01	-0.062661551	1	6.85E-01
4.26E-03	2	2	5.42E-03
1.62E+00	-0.597385317	6	1.01E+01
9.26E+01	0.066257893	9	8.43E-01
1.63E+00	0.080407794	5	6.48E-01
4.40E+01	-0.137130025	9	2.50E+00
9.04E-09	2	16	9.95E-09
4.84E-05	2	10	1.60E-05
1.56E+01	0.419818939	15	6.75E-02
4.92E-04	1	13	1.01E-04
1.38E-01	-1	5	4.21E+01
1.39E+01	0.114955409	5	5.73E-01
6.23E+00	0.317990315	7	2.48E-01
2.01E-01	0.370450245	2	3.00E-01
5.55E+02	0.355858211	16	1.05E-01
4.54E-01	-0.002202712	4	7.96E-01
8.28E-01	-0.01579336	4	8.30E-01
1.44E+04	-0.471744603	17	1.60E+02
4.91E+02	-0.308682691	21	9.09E+01
2.51E+01	-0.181457721	11	4.40E+00
5.12E-01	-0.068080606	5	1.09E+00
7.16E-01	-0.029095202	5	9.53E-01
3.08E+01	-0.227225179	13	8.51E+00
1.20E-03	1	12	3.75E-04
6.87E-01	0.1381752	8	5.63E-01
4.92E+01	-1	7	2.62E+02
4.01E+00	-0.059444765	3	8.50E-01
4.31E+06	-0.310409055	26	2.84E+02
3.39E-01	-0.007001087	6	9.61E-01
2.54E+00	-0.282507761	3	1.52E+00
1.64E+00	-0.303359771	7	3.89E+00
4.74E-01	-0.077855153	2	7.92E-01
5.72E+00	-1	2	6.23E+00
8.91E+00	-0.70070979	2	3.05E+00
1.78E+01	-0.527275392	3	2.89E+00
9.67E+00	-0.579282683	2	2.35E+00
5.89E+00	-2	2	3.01E+01

7.65E-01	-0.206661524	2	1.05E+00
4.99E+00	0.038980983	19	1.88E+00
2.16E+00	-0.275938945	5	2.27E+00
8.48E+00	0.747670946	18	2.24E-03
4.62E-01	0.28235313	21	1.56E-01
2.84E-03	0.78587169	22	5.27E-04
7.65E-01	0	3	7.28E-01
5.55E-01	-0.471178071	6	6.09E+00
1.21E+00	-0.198468573	10	4.12E+00
6.66E+01	1	5	2.24E-02
7.10E+00	-0.704202894	8	3.44E+01
2.29E+00	0.104431762	7	6.40E-01
3.88E+00	0.850443148	5	4.30E-02
1.62E+02	0.963461541	4	4.10E-02
1.23E+00	-0.203284154	4	1.48E+00
1.30E+00	-0.325602029	4	2.15E+00
3.53E-04	0.790421437	16	2.60E-03
3.90E-01	-0.000848133	5	8.62E-01
1.62E-02	2	4	6.97E-03
2.59E+05	-0.23285651	28	1.51E+02
1.92E+03	-0.122029593	20	1.06E+01
2.08E+02	-0.548571703	5	5.94E+00
4.71E+00	-0.166075396	7	2.12E+00
5.26E-01	-0.134500838	12	3.80E+00
5.61E+02	-0.642724435	10	5.39E+01
7.28E-01	-0.532703109	4	4.06E+00
3.84E+00	-0.52008793	1	1.50E+00
4.93E-01	-0.014755132	1	6.31E-01
1.58E+00	-1	2	9.64E+00
2.30E+01	-2	2	1.09E+02
6.40E-01	0.291266756	3	3.39E-01
9.75E+01	-2	4	9.20E+01
3.65E-03	1	11	1.57E-03
1.02E-01	1	2	4.34E-02
7.05E+02	-2	4	3.92E+02
4.19E+00	-0.095586533	15	4.28E+00
9.40E+00	0.177778828	5	4.60E-01
5.09E+00	-0.541183086	6	8.04E+00
7.00E+00	-0.150362555	8	2.30E+00
2.82E+07	-1	23	2.27E+06
5.15E-01	-0.247253321	5	2.05E+00
6.69E-02	0.450123165	9	1.09E-01
9.45E-02	0.819073224	8	2.03E-02
4.63E+03	-2	5	2.45E+02
5.09E-01	0.413679199	8	1.47E-01
2.57E-01	0.275074904	2	3.69E-01
5.56E-11	2	22	8.78E-11

1.23E-13	2	33	2.64E-14
5.14E+00	0.04427281	8	8.90E-01
6.25E+01	-0.383599216	13	2.60E+01
4.70E-01	0.026001787	1	5.89E-01
1.07E+01	-0.669755154	4	6.18E+00
4.17E-01	0.17424504	16	4.90E-01
4.74E-03	3	3	2.98E-04
3.86E+00	-0.23616545	10	5.12E+00
4.56E-01	0.032197083	2	6.24E-01
2.46E+00	0.070689745	15	1.12E+00
5.92E+00	-0.856831534	3	6.86E+00
7.69E-01	0	2	6.69E-01
6.46E+01	0.590208999	3	1.55E-01
4.33E-01	0.134561686	3	5.12E-01
4.36E-01	0	2	6.69E-01
5.81E-01	-0.046254223	4	9.12E-01
4.88E-01	-0.009684184	1	6.26E-01
4.32E-08	1	20	1.24E-06
2.58E+00	-0.445954994	7	7.32E+00
4.90E+01	0.02180877	10	1.15E+00
3.78E-01	-0.084569784	4	1.03E+00
1.16E+02	0.108634354	24	1.13E+00
6.32E-01	0.259126098	2	3.82E-01
1.32E-06	1	23	8.89E-07
8.46E-02	0.623367703	9	4.32E-02
7.08E-01	-0.1202413	7	1.73E+00
8.12E-01	0.485300802	9	9.02E-02
7.06E+01	-1	10	6.61E+02
1.33E-03	1	9	7.20E-04
2.04E+03	-0.841283699	14	1.09E+03
3.39E+00	-0.499371657	4	3.67E+00
1.08E+00	-0.097163594	3	9.38E-01
4.39E-01	-0.010769661	2	6.85E-01
5.85E-01	0	2	6.69E-01
4.48E+00	-2	2	2.30E+01
3.00E+04	-0.570125776	16	2.75E+02
1.27E+03	-0.604046172	17	5.24E+02
2.48E+00	-0.407077893	2	1.62E+00
5.70E+00	-0.266828801	20	4.72E+01
9.67E+03	-0.987113286	14	3.30E+03
2.23E+00	-0.034329062	11	1.76E+00
2.81E-01	0.618052798	9	4.44E-02
1.02E+04	0.294088422	79	7.75E-03
9.45E-01	0.301384308	7	2.67E-01
3.49E+00	-0.494121128	16	1.44E+02
1.49E-01	-0.167125561	5	1.55E+00
2.27E-03	0.535088217	25	5.45E-03

1.08E-03	1	8	4.97E-03
5.92E-01	-0.084194508	6	1.31E+00
6.60E-01	-0.553403616	2	2.22E+00
4.38E-01	0	1	6.16E-01
1.77E+00	0.192406734	3	4.40E-01
1.37E-01	0.713700147	3	1.12E-01
3.48E-01	0.395502105	2	2.84E-01
1.27E-03	2	5	1.65E-04
4.99E-01	0.057176461	5	7.03E-01
4.26E-01	0.002737062	3	7.22E-01
1.16E+04	-0.61504343	13	1.36E+02
4.41E-01	0.042719333	2	6.10E-01
4.47E+00	-0.334820426	8	5.66E+00
2.16E+05	-0.486310595	40	1.97E+05
2.70E-02	0.128098277	3	5.20E-01
1.12E-04	1	16	5.50E-05
8.92E+00	-0.135322092	10	2.86E+00
7.51E+01	-0.36412654	12	1.77E+01
2.74E+00	-0.204474061	2	1.04E+00
1.08E+00	0.412700303	2	2.74E-01
3.27E+01	-0.85216174	8	7.08E+01
1.71E-06	2	10	1.30E-05
4.94E+00	-0.373520248	6	4.13E+00
1.89E+00	-0.330515138	4	2.18E+00
4.56E-01	-0.036294313	1	6.55E-01
3.73E+00	-0.085158129	6	1.31E+00
1.63E-01	0.220864013	6	3.88E-01
2.11E-01	-0.244587863	2	1.14E+00
2.65E+00	-0.215243675	5	1.84E+00
9.92E+03	-0.322596423	19	6.67E+01
2.33E+00	-0.335912175	2	1.38E+00
2.36E+00	-0.487890276	6	6.50E+00
1.09E+03	-0.300368174	14	1.79E+01
1.30E+02	-0.287107225	13	1.30E+01
6.06E-04	2	15	1.93E-06
1.92E+00	0.23931242	16	2.82E-01
6.90E-01	0	2	6.69E-01
5.10E+00	0.277081529	55	3.98E-02
3.00E+00	1	6	1.57E-02
2.46E+00	-0.37706899	7	5.40E+00
6.73E+19	-0.539338797	96	5.15E+13
4.53E-01	-0.005506397	1	6.21E-01
5.13E-01	-0.091302181	2	8.16E-01
4.17E+00	-0.322757883	7	4.24E+00
3.54E+00	0.755163581	9	2.14E-02
4.07E+03	-0.255991418	7	3.16E+00
4.35E+02	-0.311282054	5	2.57E+00

2.46E+03	-0.482446077	6	6.37E+00
4.71E-01	0	1	6.16E-01
6.76E+00	-0.402897413	7	6.05E+00
8.84E+01	-0.469079982	6	6.04E+00
7.10E+01	-0.410200481	8	8.18E+00
5.12E+16	-0.54885793	95	5.66E+13
4.73E-01	-0.012199838	1	6.29E-01
2.90E-04	0.614591934	12	2.52E-02
3.81E-01	0.12600009	2	5.09E-01
2.06E+09	-1	24	1.22E+07
7.12E+00	-2	3	3.91E+01
5.12E+02	-0.964346168	7	7.28E+01
3.86E+02	0.252571432	35	1.40E-01
6.30E+00	-0.156291585	7	2.03E+00
9.82E-01	-0.087228337	8	1.69E+00
5.33E+00	-0.282410111	5	2.33E+00
1.05E+00	-0.264035593	2	1.19E+00
4.32E-01	-0.0063283	3	7.40E-01
4.03E-01	-0.008753516	9	1.26E+00
9.73E-08	2	22	2.54E-10
1.07E+00	1	6	2.92E-03
3.81E-01	0.124074727	3	5.26E-01
4.47E-01	0.0054866	3	7.17E-01
4.44E-01	0.06832305	1	5.48E-01
5.78E-01	1	5	1.05E-02
2.55E+00	0.119616975	3	5.32E-01
8.90E-02	0.815490698	8	2.06E-02
2.69E-01	0.424681663	12	8.99E-02
1.50E-04	2	13	1.47E-05
7.10E-01	0.280063796	2	3.65E-01
6.21E+02	-0.268514817	18	3.19E+01
1.37E+07	-0.976543201	22	2.04E+05
1.65E+01	-0.636980503	7	1.71E+01
1.91E-01	0.743715886	5	6.26E-02
7.54E+00	-0.090834415	13	3.21E+00
4.41E+00	0.05592799	11	1.00E+00
2.18E-06	0.596435687	95	5.38E-09
1.49E-05	1	10	1.13E-03
1.68E+00	0.257871687	5	3.47E-01
4.44E+00	0.792400983	10	1.33E-02
8.90E-01	-0.098029217	12	2.97E+00
1.22E+00	-0.080651573	12	2.65E+00
1.80E+01	-0.587918307	5	6.82E+00
4.22E+05	-0.253726103	27	1.65E+02
1.32E-01	0.934343515	4	4.49E-02
2.95E-01	-0.972984551	6	4.48E+01
1.69E-04	2	13	2.25E-05

1.77E-13	1	51	1.95E-14
1.13E-02	0.750527535	19	1.69E-03
1.32E+00	0.131705262	22	8.11E-01
4.04E+06	-2	10	6.02E+05
2.53E+00	-0.242836225	6	2.45E+00
2.46E+01	-1	5	4.36E+01
2.23E+00	0.175394944	4	4.62E-01
2.56E+00	-0.503887087	10	2.41E+01
1.39E+01	-1	5	4.43E+01
1.60E+00	-0.268698322	8	4.10E+00
4.38E-01	-0.00540881	1	6.21E-01
4.45E-01	-0.003026075	2	6.74E-01
8.31E-01	-0.033311096	2	7.19E-01
5.54E+03	-1	8	3.53E+02
1.08E+14	-2	28	3.71E+11
2.07E+06	-2	10	1.07E+05
1.99E+07	-1	27	5.86E+08
1.42E+02	-0.885780228	9	1.35E+02
2.85E+01	-0.357160033	6	3.87E+00
1.76E-02	0.719668596	8	3.29E-02
4.18E-01	-0.174605544	7	2.20E+00
5.68E+02	0.162335213	25	5.93E-01
9.00E+00	-0.40436978	6	4.67E+00
6.18E+04	-0.970526655	9	2.13E+02
1.56E+07	-1	10	7.73E+02
8.73E-03	0.902432437	20	2.73E-04
2.93E+01	0.016904075	18	2.17E+00
5.14E-01	-0.172943828	4	1.35E+00
6.15E-01	0.819402932	10	1.14E-02
9.54E+00	0.770414768	23	4.80E-04
8.19E-02	0.743113888	9	2.28E-02
4.36E-04	1	23	1.05E-06
1.79E-01	0.478961395	16	3.67E-02
4.10E-02	-0.064428342	21	6.55E+00
4.87E+00	-0.13004376	8	2.08E+00
3.07E-08	2	20	9.10E-09
2.93E-03	1	8	1.62E-03
3.75E-07	2	12	3.03E-05
3.66E+01	-0.494012518	12	4.21E+01
1.15E+07	-2	18	3.57E+06
4.00E-01	0.281604819	8	2.79E-01
1.87E+03	-0.163164145	9	2.87E+00
1.77E+02	-0.203714162	28	1.00E+02
5.27E+02	-0.873932059	12	5.35E+02
1.20E+13	-2	20	1.24E+09
5.44E-01	-0.173725815	1	8.29E-01
8.89E+02	-1	9	5.41E+02

2.41E+03	-0.525676173	19	4.94E+02
6.70E+02	-2	5	4.92E+02
4.46E+02	-2	7	1.28E+03
8.15E-02	0.503258228	8	9.47E-02
7.46E-19	1	70	1.56E-19
2.35E-03	2	4	1.54E-03
1.13E-01	0.490043556	3	2.02E-01
1.04E-03	1	4	1.27E-02
7.03E-16	2	46	1.04E-15
5.86E-04	2	5	1.85E-03
3.01E-01	0.492182779	2	2.31E-01
2.20E-01	0.064230423	6	7.24E-01
6.99E-01	0.064604851	5	6.85E-01
2.37E-05	2	15	2.30E-06
6.35E-02	-0.27040483	4	1.81E+00
1.24E-01	0.672841875	9	3.32E-02
4.96E+00	-0.189531075	6	1.99E+00
1.01E-01	-0.187205358	9	3.26E+00
3.64E+02	-0.447671373	7	7.38E+00
6.17E+04	-2	5	1.17E+03
3.57E+01	-0.129637426	9	2.40E+00
1.31E-08	1	36	6.01E-11
3.80E-03	1	7	1.94E-03
9.91E+00	-0.791049507	14	7.44E+02
4.55E+03	-1	10	6.15E+03
4.38E-01	0	1	6.16E-01
4.30E-01	-0.000912021	2	6.71E-01
6.29E+01	-0.335594655	7	4.49E+00
1.37E-01	0.203780433	18	3.74E-01
1.95E-01	-0.054158479	9	1.60E+00
4.38E-01	0	1	6.16E-01
3.60E+06	-0.577405654	31	5.17E+04
7.94E-01	-0.620503352	4	5.32E+00
1.97E+02	-0.554209025	19	6.55E+02
9.10E+01	-0.395785677	9	9.92E+00
6.81E+02	-0.579634635	13	1.06E+02
1.73E+00	-0.439671282	2	1.73E+00
1.51E+00	0.069655161	2	5.76E-01
4.15E+00	0.600390529	1	2.20E-01
1.93E+01	0.212970813	9	3.86E-01
3.23E+00	0.175012968	8	4.70E-01
5.73E+01	-0.444044433	10	1.71E+01
8.57E+00	-0.208675815	10	4.37E+00
3.18E+02	-0.422499571	13	3.43E+01
1.60E+03	-0.436499793	6	5.30E+00
1.40E+09	-2	16	5.02E+08
1.55E+02	-3	2	4.38E+02

2.62E+00	-0.563567294	5	6.26E+00
2.23E+00	-0.146649713	3	1.07E+00
2.48E+03	-1	8	1.81E+02
1.32E+00	0.985265281	5	2.67E-02
1.72E-01	0.749592138	11	1.32E-02
2.18E+02	-0.38846678	16	5.86E+01
1.34E-12	3	22	7.14E-14
7.19E+00	-0.008905677	13	1.79E+00
1.30E+02	-0.326755045	8	5.45E+00
2.09E+07	-2	18	1.05E+07
1.52E+00	-0.125197121	16	6.25E+00
7.40E-09	2	19	2.27E-09
7.51E-01	-0.085715817	2	8.06E-01
1.30E+01	-0.637286502	4	5.60E+00
1.84E+00	-0.325596897	2	1.35E+00
1.74E-04	1	16	3.59E-04
5.55E+00	-0.538850828	13	7.89E+01
2.43E+00	-0.506614824	2	2.00E+00
5.58E+01	-0.120656996	4	1.15E+00
9.49E+00	-0.658104493	7	1.87E+01
6.52E+00	-0.548371133	4	4.26E+00
1.03E+01	-0.322337248	4	2.13E+00
1.37E+04	-0.743783094	21	9.84E+03
9.23E-02	0.321995935	23	9.01E-02
9.11E+00	-2	2	1.96E+01
2.23E+00	-1	6	2.49E+02
2.84E-01	0.561872675	10	5.05E-02
3.96E-01	0.06757518	3	6.10E-01
1.37E+01	-0.550558241	9	2.26E+01
2.23E+04	-0.700769915	13	2.51E+02
2.91E+01	-0.154888112	15	6.90E+00
4.44E-01	0.032088038	2	6.24E-01
4.57E-01	0.318660321	6	2.63E-01
1.32E-06	1	23	4.13E-07
2.73E+02	-0.475784419	17	1.66E+02
1.67E-05	1	21	3.01E-05
1.97E+00	0.039989967	9	9.70E-01
3.57E+06	-0.588958306	26	1.07E+04
5.93E-05	2	7	3.88E-04
4.78E+00	-0.085541217	2	8.05E-01
9.90E-01	0.147677833	37	8.71E-01
1.75E+02	-1	5	4.39E+01
4.56E-10	1	42	5.83E-12
1.98E-01	0.660960845	5	8.37E-02
1.01E+03	-0.38316021	15	4.33E+01
4.35E-01	0	2	6.69E-01
8.16E-01	0.515748408	4	1.62E-01

9.13E+01	-0.09610647	11	2.59E+00
1.22E+01	0.550246438	12	3.88E-02
1.03E-15	2	33	1.49E-12
3.73E-04	3	4	3.61E-04
1.95E-01	-0.166285415	3	1.12E+00
1.28E+05	-0.335882087	31	1.28E+03
7.41E-01	0.107374595	5	5.89E-01
1.30E+01	-0.377139526	16	5.33E+01
6.52E-01	-0.187491991	7	2.33E+00
2.31E-21	2	49	3.82E-17
3.52E-03	2	4	7.93E-04
5.17E+01	-1	12	1.68E+04
8.28E+03	-1	14	4.97E+03
8.50E-01	-0.009988773	3	7.47E-01
4.68E-20	2	64	2.32E-19
2.97E-01	0.313186132	1	3.60E-01
3.06E+02	0.380114111	76	4.18E-04
5.78E+00	-0.72492941	6	1.67E+01
1.76E+01	-0.522602815	13	7.02E+01
7.70E+00	-0.188049753	13	6.43E+00
2.84E+00	-0.19544372	13	6.78E+00
9.03E+00	-0.029732248	16	2.77E+00
1.01E+00	-0.51411251	6	7.22E+00
5.90E+01	-2	5	2.59E+02
2.50E+02	-1	6	2.10E+02
4.29E-01	-0.193667092	2	1.02E+00
1.68E+00	-0.436726795	3	2.28E+00
1.92E+02	-0.417631155	7	6.46E+00
4.67E-01	-0.038524432	1	6.58E-01
1.93E+01	-0.431214603	5	3.93E+00
2.04E+03	-0.40523409	14	3.96E+01
3.09E-02	1	12	4.84E-04
8.04E+00	-0.237773622	5	1.99E+00
1.19E+04	-2	16	9.27E+05
1.48E+00	-0.316215431	5	2.62E+00
1.56E+00	0.173380215	8	4.74E-01
1.26E+01	0.320534444	20	1.10E-01
3.08E+00	-0.174844901	6	1.87E+00
1.63E+04	-1	12	1.82E+03
6.31E-01	0	2	6.69E-01
3.59E+00	-0.340755266	10	9.38E+00
1.22E+00	-0.179107091	3	1.16E+00
5.67E-01	-0.002011658	6	9.42E-01
9.41E-03	0.948618467	11	3.81E-03
1.83E-01	0.164643306	11	5.08E-01
4.87E-01	0.101308313	1	5.18E-01
2.37E+00	-0.039510701	4	8.93E-01

6.94E+01	-0.402484064	23	4.24E+02
1.23E-03	0.980162354	19	1.75E-04
1.24E+04	-0.688694021	19	2.47E+03
7.40E+00	-0.475091359	5	4.59E+00
2.61E+02	-1	9	6.21E+02
8.46E+07	-0.980980139	14	3.15E+03
2.29E+01	-0.357830988	2	1.45E+00
3.50E-01	0.249798098	4	3.67E-01
4.73E-01	-0.335104467	2	1.38E+00
7.24E-01	-0.000199598	25	4.58E+00
2.54E-10	1	33	1.55E-09
9.27E+00	0.008568469	11	1.35E+00
9.61E-01	-0.191878788	2	1.01E+00
2.06E+02	-0.709325098	11	1.19E+02
1.05E+00	0.022505156	8	9.90E-01
1.11E+00	-0.073996044	4	9.93E-01
4.67E+00	-0.140738088	5	1.41E+00
5.45E-01	0.205494822	5	4.17E-01
4.70E-04	2	10	1.70E-04
6.21E+00	-0.096421662	4	1.06E+00
6.39E+01	-1	3	1.69E+01
6.23E-01	-0.176295962	1	8.33E-01
1.95E+01	-0.807238698	4	9.43E+00
1.20E+05	-0.847098096	21	2.99E+04
1.04E+03	-0.605618162	6	1.04E+01
1.39E+00	-0.017712078	5	9.15E-01
7.57E-01	1	4	3.59E-02
2.18E+00	-0.05591155	7	1.30E+00
1.68E+02	-0.283939449	11	8.35E+00
4.78E+03	-0.217263253	25	7.03E+01
4.50E-01	-0.189962318	4	1.42E+00
5.64E-01	-0.052388153	3	8.34E-01
1.65E+04	-0.044623365	15	2.84E+00
5.66E+01	-0.245098489	18	2.56E+01
6.04E-01	-0.230880285	12	7.24E+00
4.19E+04	-2	10	2.54E+04
3.88E+09	-0.349982661	72	3.25E+07
1.33E+00	-0.365982848	8	6.59E+00
1.49E+00	-0.202295732	4	1.47E+00
3.96E+16	-3	18	3.57E+13
4.45E-02	0.537912221	4	1.52E-01
1.56E-01	-0.721743943	4	7.26E+00
3.58E-01	-0.206263967	4	1.49E+00
4.12E+03	-0.221286325	13	8.15E+00
9.83E-01	-0.417616239	4	2.85E+00
1.97E-03	0.735121617	16	4.15E-03
1.28E+01	-0.291256594	11	8.74E+00

7.91E-09	2	24	3.44E-08
4.33E-01	0	2	6.69E-01
6.56E-05	1	25	2.96E-06
6.18E-01	0.929437396	7	1.66E-02
1.65E+01	-0.216902097	9	3.82E+00
4.61E-01	-0.006265674	3	7.40E-01
4.46E-01	-0.026728995	2	7.09E-01
1.72E+03	-0.730626638	21	8.54E+03
2.50E+00	-0.114194906	2	8.57E-01
1.03E+00	-0.219129546	2	1.08E+00
6.78E+05	-2	19	1.98E+07
4.25E+00	-0.302903909	6	3.12E+00
8.42E+00	0.856482726	9	1.25E-02
1.35E+00	0.380011441	6	2.06E-01
2.27E-02	1	6	1.17E-02
6.72E-01	0.325318046	6	2.56E-01
3.53E-01	0.316095272	3	3.18E-01
4.70E-01	0.041957438	1	5.73E-01
2.57E+00	-0.289793642	6	2.96E+00
4.63E-01	-0.011227639	1	6.28E-01
5.02E+03	-0.963366041	14	2.75E+03
2.45E+03	-0.675485666	11	9.61E+01
4.31E-01	0	3	7.28E-01
5.01E-01	-0.112653777	7	1.67E+00
6.15E+03	-0.6778805	22	7.15E+03
3.02E-02	0.69674627	19	2.87E-03
1.26E+01	0.019447993	15	1.69E+00
3.72E+01	-0.68579148	12	1.52E+02
1.60E+00	-0.371915028	10	1.12E+01
8.54E-01	0.43625288	20	3.34E-02
4.04E+00	0.128887359	8	5.89E-01
9.86E+00	-0.177754179	4	1.37E+00
6.02E-02	0.325749374	20	1.05E-01
7.29E-01	0.164018148	2	4.69E-01
1.07E-03	2	4	2.29E-03
5.32E-07	1	25	5.42E-07
5.77E-01	0.050201541	3	6.38E-01
2.63E+01	-0.136467728	14	5.14E+00
1.31E+00	-0.113921311	4	1.12E+00
9.13E-01	0.3267746	4	2.90E-01
1.22E+09	-0.529911328	46	3.20E+06
4.76E+01	-1	2	1.08E+01
1.27E+02	-0.94053654	5	2.36E+01
6.98E+01	-0.680211711	11	9.90E+01
2.07E-20	1	52	9.56E-14
3.63E-01	0.078320262	4	6.22E-01
2.84E+01	-1	3	1.41E+01

5.40E+10	-0.812043053	38	4.40E+07
6.68E+01	-0.268944394	18	3.20E+01
4.31E-02	0.957310575	6	2.08E-02
1.73E+04	-0.594148695	31	6.67E+04
7.39E-02	0.720457387	39	1.77E-05
8.41E+00	-0.703399279	6	1.53E+01
4.67E-01	-0.290686181	1	1.01E+00
4.76E+09	-0.91875605	22	1.07E+05
3.51E+02	-0.875015596	10	2.07E+02
3.68E-01	0.324270507	3	3.11E-01
1.05E-01	0.606972133	5	1.01E-01
2.89E-04	0.687154694	19	3.16E-03
1.71E+06	-1	12	9.27E+03
1.37E-01	0.873699789	14	2.39E-03
2.31E-03	0.873496494	42	3.84E-07
4.59E+04	-0.394156759	16	6.15E+01
1.34E+01	-0.003202369	8	1.12E+00
1.66E-06	3	5	3.02E-05
4.20E-01	0	3	7.28E-01
1.31E+00	-0.297249883	4	1.97E+00
3.27E-01	0.291963002	9	2.53E-01
1.66E+00	-0.528088855	2	2.10E+00
4.78E-02	0.409964738	5	2.03E-01
4.75E-01	0.32524374	9	2.12E-01
4.44E-01	0.080501374	1	5.36E-01
9.31E-01	0.108459669	6	6.07E-01
4.18E+00	0.438981932	5	1.83E-01
4.61E-01	0.022106936	1	5.93E-01
2.76E+01	-0.353862124	8	6.22E+00
9.77E-10	2	22	2.78E-10
2.42E+00	-0.155684351	8	2.36E+00
1.10E+01	-0.407863207	6	4.73E+00
5.38E+00	-1	8	1.68E+02
3.63E+01	-0.374920199	7	5.35E+00
7.38E+00	0.046289036	5	7.30E-01
9.98E+01	-0.786939196	6	2.14E+01
6.31E-01	0.01756816	6	8.72E-01
8.66E+01	-1	4	6.17E+01
9.67E-01	-0.410032243	3	2.13E+00
2.81E+00	-0.815042559	5	1.52E+01
2.44E+02	-0.064684836	8	1.51E+00
4.22E+00	0.116082876	9	6.46E-01
1.79E-01	0.734848735	9	2.38E-02
1.84E+02	0.339647064	11	1.70E-01
7.25E+00	-0.564319856	5	6.28E+00
2.29E+02	-1	5	1.08E+02
2.56E+07	-2	9	7.21E+03

1.29E+04	-0.621221296	18	8.80E+02
1.10E+01	-0.433038519	2	1.71E+00
2.21E-01	0.103208486	2	5.35E-01
1.77E-05	1	9	5.20E-03
4.40E-01	-0.179184712	6	1.91E+00
1.01E+01	-0.268917515	12	9.33E+00
5.01E-01	-0.071691735	4	9.86E-01
2.81E-01	0.897681014	20	2.86E-04
3.37E-01	0.25742899	2	3.83E-01
2.13E+04	-0.875742505	21	4.08E+04
1.26E+00	-0.42806991	1	1.28E+00
1.32E+07	-0.574583768	35	1.96E+05
1.01E-02	2	6	1.41E-03
1.08E+02	-1	5	3.06E+01
5.49E-01	-0.353240317	2	1.44E+00
4.54E-01	-0.020084294	3	7.67E-01
9.17E-01	0.315512776	5	2.83E-01
5.39E+00	0.100275726	3	5.60E-01
2.11E+03	-1	7	1.06E+02
8.97E+02	-0.770643873	19	5.53E+03
4.72E-01	0.056287147	5	7.05E-01
2.04E+01	-0.771702007	6	2.01E+01
1.82E+04	-1	12	1.40E+04
1.12E+00	-0.396437099	4	2.67E+00
4.59E-01	-0.089560695	2	8.12E-01
2.53E+01	-0.55679613	4	4.37E+00
2.17E+00	-0.164085696	4	1.31E+00
1.23E+00	-0.916057191	3	8.01E+00
9.13E+00	-0.562745063	4	4.45E+00
1.09E+00	-0.000629423	9	1.20E+00
1.14E+00	0	5	8.60E-01
4.11E-01	0.309203247	4	3.06E-01
1.12E+01	-0.273866332	7	3.42E+00
4.11E-01	0	4	7.91E-01
5.49E-01	0	5	8.60E-01
5.04E+01	-1	8	4.71E+02
4.28E+00	-0.314799557	11	1.01E+01
1.94E+00	0.100632112	4	5.81E-01
2.83E+00	-0.172003993	8	2.56E+00
8.50E+01	-0.426224802	7	6.71E+00
6.01E+00	0.651819555	10	3.00E-02
3.68E-01	0.267080426	1	3.90E-01
5.19E-01	-0.018401902	6	1.01E+00
4.64E-01	0.727091784	6	5.19E-02
3.00E+04	-0.15731123	18	1.12E+01
1.70E+01	-0.596039422	5	7.02E+00
2.21E+00	0.912634077	4	4.80E-02

4.88E-01	0.118644398	1	5.02E-01
5.41E+01	-1	7	1.96E+02
4.49E+00	-2	2	2.38E+01
2.03E+00	-0.149542911	11	3.61E+00
3.05E+07	-0.037861418	98	1.14E+04
6.61E-01	0.538254388	13	3.58E-02
8.31E-01	-0.219285962	3	1.29E+00
1.56E+01	0.311279177	5	2.87E-01
7.98E+01	-0.119815454	6	1.51E+00
2.82E+01	-0.461439903	10	1.89E+01
4.25E-01	-0.014087993	4	8.26E-01
4.95E+02	-0.215638089	20	2.78E+01
8.94E+02	-0.750633984	8	4.31E+01
5.43E-01	-0.126858945	5	1.34E+00
3.61E+01	-0.276132359	11	7.95E+00
5.64E-01	0.338041422	40	2.29E-02
9.55E+00	-0.612719123	8	2.20E+01
8.34E-01	0.143991959	5	5.18E-01
3.37E+01	-0.027835529	8	1.27E+00
2.28E-20	2	37	1.20E-17
4.91E-01	-0.227293421	9	4.04E+00
1.39E-05	2	7	1.00E-04
2.08E-02	0.705741631	5	7.15E-02
1.80E+01	-0.752078282	7	2.84E+01
2.14E+02	-0.773584129	8	4.82E+01
5.39E+01	-0.719940913	6	1.64E+01
4.16E+01	-0.479301796	8	1.15E+01
2.60E+01	-0.263538412	10	6.00E+00
5.10E-01	-0.048302209	2	7.43E-01
5.11E-01	-0.09536108	5	1.20E+00
7.16E+02	-0.042687637	37	2.69E+01
3.56E+01	-0.176656436	7	2.22E+00
2.95E+01	-0.585729909	5	6.77E+00
6.17E+01	-0.868603981	6	2.96E+01
1.55E+00	-0.476759268	7	8.39E+00
1.09E+02	-1	9	3.25E+02
8.80E+05	-0.609877306	13	1.31E+02
9.23E-07	2	9	1.11E-05
3.83E-02	0.337139998	23	7.55E-02
7.61E-01	-0.244932524	4	1.68E+00
3.52E+00	-0.204967485	10	4.28E+00
4.29E-01	0.017300318	2	6.45E-01
7.15E-01	0.073012193	8	7.73E-01
3.48E+00	0.029739755	9	1.02E+00
7.50E+04	-0.806051862	22	3.01E+04
4.31E+00	-0.307608433	7	3.97E+00
6.81E-02	0.266617434	5	3.36E-01

3.81E+10	-2	22	8.73E+07
5.26E+01	-0.518416097	10	2.62E+01
3.74E+00	-1	6	1.19E+02
2.80E+00	-1	5	4.49E+01
4.54E+01	-0.786859764	7	3.32E+01
8.93E-01	-0.136512935	3	1.04E+00
1.16E+00	-0.219511433	5	1.86E+00
4.50E-01	-0.04610367	2	7.39E-01
5.26E+02	-0.455718543	12	3.26E+01
5.34E-01	0.015329823	3	6.99E-01
5.57E-01	-0.10901006	3	9.68E-01
5.52E-01	-0.018069616	2	6.96E-01
1.62E+04	-2	7	8.59E+02
1.31E+04	-1	9	1.41E+03
1.99E+00	-0.066505735	5	1.09E+00
1.04E+01	-1	7	2.60E+02
2.77E+00	-0.509240369	7	9.69E+00
5.94E+01	0.436801639	9	1.17E-01
1.23E+00	-0.315317333	7	4.11E+00
2.16E+00	-0.2684002	8	4.10E+00
7.87E-01	-0.144354666	4	1.23E+00
4.50E-01	-0.032545572	4	8.74E-01
7.18E+00	0.016918157	5	8.10E-01
1.22E+00	-0.668018041	5	9.05E+00
9.07E+00	-0.219861197	4	1.55E+00
1.13E+00	-0.328738654	5	2.74E+00
3.00E+00	-0.25199696	4	1.71E+00
5.93E-01	-0.00027971	1	6.16E-01
4.41E-01	-0.078953275	3	8.95E-01
6.36E-01	0.308139353	3	3.25E-01
4.28E-01	0	3	7.28E-01
4.38E-01	0	1	6.16E-01
1.48E+03	-0.633515353	8	2.43E+01
1.85E+03	-1	6	5.17E+01
8.17E-01	0.201860846	2	4.32E-01
1.09E+00	-0.613562742	2	2.53E+00
1.13E+00	0.037482257	2	6.17E-01
5.77E-01	0.293967283	2	3.54E-01
4.36E-01	0	1	6.16E-01
3.45E+00	0.960272265	4	4.14E-02
2.30E-01	2	8	3.72E-04
4.89E-02	2	11	6.40E-05
4.82E-01	0.88687642	15	1.57E-03
1.04E+00	-0.117837549	5	1.30E+00
3.20E+00	0.141046159	13	6.12E-01
3.82E-07	0.671968166	42	2.29E-05
1.50E+03	-0.413494816	4	2.82E+00

1.64E+00	-0.156574422	2	9.39E-01
2.28E-01	0.452180622	16	4.61E-02
3.61E-03	1	9	5.00E-03
2.49E-01	0.652129712	8	4.58E-02
8.71E+00	0.382697902	17	7.60E-02
1.34E+02	-0.810186338	9	9.05E+01
4.40E-01	-0.046302783	2	7.40E-01
5.86E+00	-0.650403385	4	5.83E+00
2.86E+23	-3	37	2.25E+24
4.55E+02	-2	8	2.42E+03
3.45E+00	0.535813835	11	5.01E-02
2.64E+00	0.154391761	18	5.96E-01
2.35E+02	-0.673714157	13	2.07E+02
7.75E-01	0.082956287	3	5.85E-01
4.87E-04	0.776979756	37	1.04E-05
1.51E+00	-0.030143996	1	6.48E-01
4.67E-01	-0.000293992	1	6.16E-01
8.43E-03	0.732302313	36	2.98E-05
2.08E+02	-0.052253819	13	2.44E+00
3.02E-01	0.432639364	8	1.34E-01
1.25E-05	2	14	1.13E-08
3.95E-01	-0.000309812	1	6.16E-01
2.66E-01	-4.63E-05	6	9.35E-01
3.29E+03	-2	15	6.28E+06
1.04E+03	-2	11	2.88E+04
5.44E+01	-0.374867764	18	8.67E+01
5.17E+06	-0.100749435	22	1.10E+01
5.87E+01	0.084697199	26	1.65E+00
1.85E+00	0.653128526	5	8.61E-02
7.49E-02	0.844295902	10	9.86E-03
1.26E+01	-0.317879008	5	2.64E+00
3.40E-01	0.216990363	4	4.06E-01
8.67E-01	1	5	6.65E-03
4.15E-09	3	10	3.16E-07
4.30E+01	0.280627601	30	1.08E-01
9.48E-06	1	12	5.32E-04
3.90E+00	0.09479382	12	8.18E-01
5.00E-01	-0.472490179	5	4.54E+00
1.56E+01	-0.285413594	6	2.91E+00
3.49E+30	-0.268605864	273	1.67E+24
6.50E+04	-0.398156246	33	5.64E+03
2.89E+04	-0.796393516	16	1.88E+03
1.94E+02	-0.228948697	16	1.51E+01
7.44E+08	-2	26	1.14E+10
9.91E+02	-0.568190126	11	4.92E+01
6.10E+03	-1	11	1.20E+03
2.25E+03	-0.76289592	18	3.34E+03

2.38E+01	-0.029067996	4	8.65E-01
5.82E+00	-0.57306505	5	6.48E+00
5.60E+02	-2	5	7.61E+02
2.16E+00	0.007217821	4	7.74E-01
2.33E-12	1	52	5.48E-13
1.15E-05	2	7	2.85E-05
1.27E-01	0.798430346	2	1.19E-01
2.87E-04	0.743540697	29	1.44E-04
1.71E+02	-0.800607232	6	2.26E+01
1.38E+02	0.129688083	27	9.40E-01
4.61E-01	1	9	1.85E-03
4.83E+02	0.198329796	11	4.12E-01
1.23E+00	-0.309779727	10	7.84E+00
7.88E-03	0.622671173	36	2.04E-04
1.88E+00	-0.076164376	5	1.12E+00
1.11E+04	-1	14	1.19E+05
6.91E-01	-0.210405074	3	1.26E+00
5.73E-01	1	5	1.63E-02
5.11E-01	-0.082289742	2	8.00E-01
4.34E-04	1	13	2.40E-04
1.72E+01	0.857421551	26	6.97E-05
3.40E-02	1	4	9.78E-03
5.41E-02	2	2	2.59E-02
2.92E-02	2	4	4.29E-03
7.08E+00	0.090399603	12	8.42E-01
4.66E-01	0.055092199	1	5.60E-01
1.01E+00	0.864094776	9	1.20E-02
4.27E-01	2	7	9.31E-04
3.72E+00	0.176855451	22	4.89E-01
3.03E-02	0.642129556	22	2.64E-03
2.38E+03	0.061460711	13	1.08E+00
1.17E-03	0.687071113	11	1.95E-02
3.76E+01	-0.091283081	9	1.95E+00
3.69E+00	-0.400633719	5	3.53E+00
2.65E-02	0.969511222	6	1.98E-02
6.22E-02	2	4	2.87E-03
1.15E+01	-0.34941003	7	4.78E+00
2.49E+00	-0.107438196	12	3.17E+00
6.74E-01	-0.419888828	6	4.96E+00
1.49E+01	-0.219225828	10	4.64E+00
4.57E+03	-0.494458217	12	4.22E+01
2.69E+00	-0.251159134	12	8.29E+00
4.56E+01	-0.511651517	12	4.74E+01
2.24E+02	-0.808458415	8	5.72E+01
8.78E-01	0.530045324	10	6.07E-02
8.61E-04	0.924625715	15	1.16E-03
2.56E+00	0.135214664	3	5.11E-01

4.88E+01	0.053317004	11	1.02E+00
9.89E+01	-0.66867979	12	1.36E+02
1.43E+01	-0.931491476	3	8.34E+00
5.94E-03	0.488796943	20	1.94E-02
1.31E+00	0.171391811	36	5.65E-01
2.49E+00	-1	5	9.49E+01
2.90E+02	-0.625599562	22	3.98E+03
1.51E+00	0.265069467	10	2.82E-01
1.63E-08	2	12	1.19E-06
1.61E+00	0.509324756	4	1.66E-01
3.70E+09	-1	13	9.59E+03
1.55E-01	0.931696351	4	4.52E-02
3.19E+00	0.764009553	5	5.82E-02
1.57E+01	0.463199117	6	1.48E-01
4.18E-01	-0.150421366	4	1.26E+00
1.29E+01	-0.730167521	4	7.45E+00
1.64E+01	-0.439433592	5	4.04E+00
4.14E+00	-0.758395671	4	8.12E+00
3.81E+01	-0.232357501	5	1.95E+00
5.31E-01	0	2	6.69E-01
6.13E-01	-0.0005519	3	7.29E-01
8.49E+00	0.167269312	11	5.00E-01
4.06E-02	0.071337418	12	9.57E-01
1.00E-04	2	8	4.13E-04
3.39E-02	1	8	1.17E-03
2.17E+00	-0.267016779	8	4.07E+00
4.29E-01	-0.096448165	5	1.21E+00
1.84E-02	0.72943966	12	1.17E-02
6.06E-01	0.125110917	2	5.10E-01
4.80E-01	0.723626253	6	5.26E-02
3.54E-01	0.193766388	4	4.36E-01
1.27E+01	-0.683512415	7	2.10E+01
4.52E-01	0	1	6.16E-01
2.88E-01	-0.001877376	4	7.95E-01
1.56E+00	-0.034387007	3	7.96E-01
2.67E+00	0.038881658	6	8.01E-01
2.32E-02	0.484612668	7	1.19E-01
5.25E-05	2	5	1.93E-04
7.75E-01	0.083976572	2	5.58E-01
1.26E+07	-0.878307883	21	4.19E+04
3.98E-01	0.257825918	5	3.47E-01
2.27E+00	-0.70846555	4	6.97E+00
4.60E-01	-0.024297375	1	6.42E-01
2.40E+02	-0.413318891	21	2.80E+02
5.46E+04	-0.96405865	7	7.27E+01
3.66E-02	0.840909673	10	1.01E-02
6.14E-02	0.945179767	15	9.82E-04

1.59E+00	0.315059665	2	3.38E-01
6.48E+00	-0.418864203	6	4.94E+00
8.26E+00	-0.11474315	10	2.54E+00
8.30E-02	1	6	1.32E-02
1.96E+00	0.701713836	4	9.17E-02
8.03E+01	-0.48345538	10	2.14E+01
3.59E-01	0.320098435	4	2.96E-01
2.76E-01	2	13	9.88E-06
1.27E-01	0.340902686	4	2.78E-01
1.10E-01	0.963907238	4	4.10E-02
1.88E+01	-0.607261339	5	7.31E+00
6.61E+00	-0.498263003	5	4.98E+00
2.80E+00	-0.234142149	7	2.87E+00
5.25E-01	0.162094527	23	5.83E-01
7.44E-02	-0.005330356	11	1.47E+00
2.13E-03	1	7	3.80E-03
3.26E+01	0.188044712	12	4.38E-01
3.89E+00	0.102723027	13	8.05E-01
4.47E-01	-0.012751933	1	6.29E-01
5.88E-01	0	5	8.60E-01
3.88E-01	0	2	6.69E-01
4.45E+02	-0.678464274	12	1.45E+02
2.72E+00	-0.374995379	4	2.50E+00
5.16E+01	-0.129464186	10	2.76E+00
1.07E+00	0.344975535	4	2.74E-01
4.71E-12	2	30	3.60E-11
1.65E+00	-0.154519922	7	2.01E+00
4.14E-01	-0.100607349	4	1.08E+00
1.26E-02	1	11	1.33E-04
2.78E-01	0.409733605	3	2.49E-01
6.57E-04	1	12	8.52E-05
7.90E+00	0.547277887	18	1.48E-02
4.98E-04	2	8	2.89E-04
2.67E-01	0.394384898	2	2.85E-01
2.00E+00	1	9	5.40E-03
6.14E+02	-0.416659326	19	1.69E+02
1.08E+05	-0.099279476	15	4.41E+00
5.87E-01	-0.132420913	1	7.72E-01
1.54E+02	-1	9	2.81E+02
3.71E+01	-0.386068426	9	9.42E+00
1.09E+00	-0.839925768	1	2.59E+00
1.25E+01	0.373479366	18	7.58E-02
5.30E-01	-0.519981498	3	2.84E+00
4.64E-01	-0.027443277	2	7.10E-01
6.32E-01	-0.208751246	4	1.50E+00
1.48E+00	0.32739489	9	2.09E-01
1.56E+00	0.46237089	6	1.49E-01

3.88E+00	-0.090575396	4	1.04E+00
9.59E-01	-0.00095644	4	7.93E-01
1.81E+00	-0.390849557	7	5.74E+00
2.03E-05	3	6	1.47E-06
1.69E-01	0.337184183	4	2.81E-01
3.55E-06	2	18	9.97E-09
2.03E+01	-0.559973613	11	4.67E+01
4.30E-03	0.393891404	13	1.01E-01
3.81E-01	0.071867915	2	5.73E-01
1.94E+00	-0.061351271	2	7.64E-01
4.10E-01	0.005236722	2	6.62E-01
5.13E-03	1	3	4.02E-02
5.24E-03	1	10	1.87E-03
1.61E+05	-0.492814732	17	1.94E+02
1.45E-01	0.831524405	27	7.29E-05
8.54E+01	-0.620329155	4	5.31E+00
3.02E+01	-0.704857988	12	1.73E+02
1.30E+02	-0.725760035	8	3.82E+01
4.17E-01	0	4	7.91E-01
5.10E-01	-0.050613388	4	9.24E-01
2.46E+00	-1	5	4.77E+01
2.42E-07	2	26	4.54E-09
6.43E-06	2	19	1.02E-08
1.46E-01	0.421954673	14	7.39E-02
3.97E+00	-0.079554001	8	1.63E+00
3.05E-01	0.878585088	12	4.31E-03
3.62E+00	-0.10968951	12	3.21E+00
7.18E+00	-1	5	3.14E+01
4.37E-01	-0.135029559	3	1.04E+00
1.10E-06	0.996062839	41	4.62E-08
9.94E+02	-0.483822485	19	3.27E+02
9.18E-01	-0.117500407	4	1.13E+00
6.39E+01	-0.716496292	6	1.61E+01
4.29E-01	-0.182704595	2	9.94E-01
7.17E+03	-0.814765458	17	3.46E+03
2.55E+00	-0.128733343	5	1.35E+00
4.57E+00	-0.083002026	8	1.66E+00
1.79E+09	-0.534717825	40	5.04E+05
3.32E+00	-0.740983868	6	1.78E+01
1.63E+00	-0.194959909	6	2.03E+00
9.08E+00	-0.200866603	9	3.51E+00
2.41E+00	-0.248642715	4	1.70E+00
1.23E+00	0.351180757	11	1.59E-01
7.17E-04	1	11	5.92E-04
4.45E+01	-0.056684329	16	3.49E+00
1.87E+05	-0.45490816	10	1.82E+01
7.96E+00	-0.727845944	5	1.12E+01

1.35E+02	-0.32300677	17	4.23E+01
1.96E-07	2	18	3.64E-08
4.30E+02	-0.376144377	10	1.15E+01
6.98E-01	-0.375770034	4	2.51E+00
2.56E-01	0.571876006	4	1.37E-01
2.70E+00	0.52336519	2	2.15E-01
2.62E-01	0.44210501	4	2.03E-01
3.36E+01	-0.447348533	6	5.54E+00
5.05E-01	0.060570872	4	6.57E-01
1.28E+00	0	3	7.28E-01
1.22E+00	-0.20411335	3	1.24E+00
1.64E+01	-1	3	1.39E+01
4.41E-01	0.18314385	13	4.53E-01
2.11E+00	0.099389007	10	7.34E-01
2.29E+00	1	6	1.68E-02
1.26E+01	0.416369728	26	2.19E-02
5.33E-02	2	1	4.19E-02
5.44E-01	-0.035249629	3	7.98E-01
8.43E+00	-0.390529752	12	2.11E+01
1.30E-02	0.881334795	45	1.27E-07
4.57E-01	0.544824193	13	3.42E-02
4.11E+03	-0.830985239	16	2.53E+03
2.29E+00	0.254223981	8	3.19E-01
1.27E+03	0.666402276	17	5.99E-03
2.31E+01	-0.285085281	15	1.97E+01
1.84E+02	-0.591290721	14	1.63E+02
2.48E+00	-0.43404725	10	1.61E+01
4.31E+01	0.187941956	9	4.41E-01
1.13E-01	1	26	2.83E-06
2.35E-01	0.087156702	3	5.79E-01
8.56E-01	0.833968498	8	1.88E-02
4.23E-01	0.462898246	2	2.46E-01
4.11E-01	0.413291397	25	2.52E-02
1.60E+00	0.650287552	23	1.95E-03
3.90E-01	0	2	6.69E-01
6.63E-01	0.03865343	6	8.02E-01
2.29E-01	0.807013488	8	2.15E-02
2.27E-01	0.018160898	5	8.07E-01
1.04E-01	0.399097013	5	2.11E-01
7.60E+00	-0.210645186	7	2.58E+00
6.39E-01	0.6814785	5	7.79E-02
3.94E-04	0.715603844	16	4.90E-03
1.86E+00	-0.188458892	7	2.34E+00
2.64E+00	-0.246245639	8	3.68E+00
1.15E+00	-0.405463861	2	1.61E+00
4.60E-01	-0.000656787	3	7.29E-01
3.98E+00	-0.124064782	6	1.53E+00

2.48E+00	-0.244468464	21	4.55E+01
1.24E+00	0	7	1.02E+00
4.15E-01	-0.008809073	5	8.87E-01
1.17E-01	0.530783663	7	9.68E-02
7.95E-01	0.827238561	4	6.24E-02
7.57E-01	0.096179689	4	5.89E-01
4.04E+00	0.920159104	9	8.86E-03
3.10E-01	-0.007653774	3	7.42E-01
4.18E-01	-0.238434974	2	1.12E+00
1.27E+00	0.218930663	4	4.04E-01
7.88E-01	-0.608834092	6	1.05E+01
2.44E+01	-0.525501304	4	3.97E+00
4.80E+01	-0.275645894	5	2.27E+00
8.02E+04	-0.712639558	18	2.08E+03
5.31E-01	-0.008234607	2	6.81E-01
8.28E-02	0.169515372	13	4.99E-01
2.25E-01	-0.103297697	8	1.83E+00
1.17E+02	0.341559543	40	2.14E-02
3.09E+00	0.339876864	15	1.28E-01
4.96E+00	0.058049679	10	9.33E-01
2.26E+01	0.317183003	12	1.85E-01
3.90E+00	-0.24224865	29	2.08E+02
5.05E-01	-0.107345865	4	1.10E+00
3.83E+00	-0.157744757	10	3.25E+00
2.53E+00	0.250978072	17	2.47E-01
6.39E-01	-0.038926732	2	7.28E-01
9.14E-01	0.581632261	4	1.33E-01
4.42E+01	0.496967156	13	4.81E-02
5.94E-04	0.531119227	23	7.85E-03
3.56E-01	0.455416937	4	1.95E-01
1.08E+01	-0.210952463	6	2.16E+00
8.71E-01	-0.179359411	10	3.69E+00
3.10E-01	0.056158512	12	1.06E+00
4.02E-01	-0.058345765	5	1.06E+00
7.61E+00	-0.011825187	7	1.07E+00
3.52E+01	-0.316531303	12	1.28E+01
2.94E+01	-0.82351809	2	3.98E+00
6.81E-01	-0.107144352	2	8.44E-01
7.15E-01	0.079347637	5	6.50E-01
4.21E-01	-0.003769684	3	7.35E-01
7.01E-01	-0.132354349	4	1.19E+00
1.56E+00	-0.194750428	6	2.03E+00
1.94E+08	-0.718446804	26	5.79E+04
5.89E+00	-0.362634962	2	1.47E+00
1.89E-01	-0.577936877	3	3.30E+00
2.27E+00	-0.086978196	6	1.32E+00
3.39E-01	0	2	6.69E-01

5.29E-01	0	2	6.69E-01
5.97E-01	-0.102362181	4	1.08E+00
6.13E+01	-0.054227641	4	9.34E-01
4.38E-01	-0.014020948	1	6.31E-01
4.46E-01	-0.011227639	1	6.28E-01
3.09E+00	-0.391721051	9	9.71E+00
4.29E-01	1	2	6.25E-02
1.50E-01	-0.223274101	10	4.75E+00
3.87E-01	-0.309989785	4	2.05E+00
3.87E-05	2	6	6.03E-04
1.02E+04	-0.11715646	14	4.44E+00
1.39E+01	-2	7	1.71E+03
1.54E+01	-0.297886992	7	3.80E+00
4.07E-01	-0.000775958	2	6.70E-01
7.11E-01	-0.10921873	4	1.11E+00
4.12E-02	0.463290707	8	1.15E-01
1.02E+00	-0.453829273	2	1.79E+00
8.91E-01	0.263758614	2	3.78E-01
4.15E+01	-0.317920338	2	1.33E+00
1.39E+01	-0.684324226	2	2.94E+00
2.24E+01	-0.590988372	3	3.42E+00
1.48E+01	0.906579758	6	2.54E-02
4.29E-01	-0.04311742	2	7.35E-01
3.93E-01	-0.187387902	6	1.97E+00
4.20E-01	0	3	7.28E-01
2.17E+03	-0.464156998	17	1.50E+02
1.38E-03	0.321394599	30	5.88E-02
2.39E+04	0.039430225	51	1.53E+01
3.71E+01	0.013421524	9	1.12E+00
4.95E-01	0.722646806	8	3.24E-02
9.75E-01	0.403678369	9	1.39E-01
2.98E-02	0.735050923	10	1.85E-02
4.40E-03	2	3	1.10E-03
8.03E-03	0.792294728	9	1.75E-02
7.55E-01	0.334607289	15	1.34E-01
1.04E-16	1	67	7.65E-19
2.83E+02	-1	12	1.81E+03
3.23E-04	1	13	1.66E-04
1.89E-02	1	6	4.20E-03
1.32E-13	2	33	1.79E-12
7.70E-02	0.699874668	17	4.44E-03
2.45E+03	-0.450076552	21	4.16E+02
3.51E+18	-3	24	1.67E+14
1.69E+00	-0.302417749	4	2.00E+00
1.89E+04	-1	13	5.57E+03
4.80E-01	-0.088393111	5	1.17E+00
1.87E-02	0.996153211	9	5.91E-03

5.24E+01	0.470319193	18	3.05E-02
4.07E-01	0	4	7.91E-01
6.83E+01	-0.574230265	7	1.29E+01
7.88E-01	-0.130377291	3	1.02E+00
7.99E+00	-0.124044569	15	5.38E+00
2.31E-04	2	4	2.73E-03
3.62E-01	0.010144007	6	8.98E-01
2.12E-01	-0.10261651	3	9.52E-01
4.70E-03	0.775217997	13	6.59E-03
2.92E-01	0.429462893	11	9.73E-02
4.64E+13	-0.922746446	47	3.10E+10
3.56E-08	1	23	8.97E-07
3.24E+02	-0.272942388	10	6.34E+00
3.11E+01	0.019694239	25	3.57E+00
4.38E-01	0	1	6.16E-01
3.69E+00	1	8	2.29E-03
2.58E+00	0.95768566	1	1.19E-01
8.86E-01	-0.112650498	3	9.77E-01
5.30E-02	0.57389596	12	3.31E-02
1.85E+00	0.52689936	16	2.44E-02
7.13E+03	-0.643675563	18	1.09E+03
1.20E-02	1	9	4.65E-03
1.62E+00	-0.455047288	11	2.43E+01
1.09E+00	-0.044234527	5	1.00E+00
6.58E+02	-0.053604348	10	1.78E+00
8.77E-01	0.019534654	6	8.65E-01
1.29E+02	-1	8	3.86E+02
1.03E+01	-0.598324031	4	4.97E+00
1.11E+00	-0.056684462	2	7.57E-01
3.71E+01	-0.370156171	5	3.17E+00
4.92E-01	-0.00337388	7	1.03E+00
2.17E+00	-0.452422807	4	3.17E+00
4.44E+02	0.114713052	18	8.65E-01
2.27E+00	-0.18231055	7	2.28E+00
7.13E-01	-0.055897165	6	1.17E+00
2.67E+03	-1	10	6.43E+02
1.08E+00	0.136434946	19	7.21E-01
6.86E+00	0.335022691	8	2.15E-01
4.93E+00	0.234501727	15	3.00E-01
4.73E-01	-0.066092771	5	1.09E+00
4.49E-01	0.001609179	4	7.87E-01
3.01E+01	0.27030226	5	3.32E-01
1.53E+01	-0.58220478	6	9.46E+00
2.66E+02	0.221167392	6	3.88E-01
1.29E-01	0.231952385	14	3.13E-01
2.97E-04	1	12	1.35E-04
7.90E-01	0.270517093	3	3.58E-01

3.48E+03	-0.053139919	6	1.15E+00
7.30E-01	0.75673347	10	1.64E-02
2.41E-04	2	9	4.40E-05
5.32E-01	0.198757891	14	4.03E-01
4.43E+00	0.380087784	11	1.32E-01
1.73E+00	0.33837903	8	2.12E-01
3.41E-03	3	1	3.50E-03
7.41E-06	2	12	3.31E-06
3.78E+03	0.032732666	14	1.42E+00
2.05E-01	-0.332466583	16	3.64E+01
6.04E-01	0.006497545	3	7.15E-01
6.62E-01	-0.040280176	3	8.08E-01
5.38E+00	-0.58882927	6	9.72E+00
7.15E-01	-0.141322535	6	1.64E+00
1.19E+00	-0.144308473	7	1.93E+00
4.65E+02	-0.47027337	23	9.37E+02
4.49E-01	0	1	6.16E-01
4.49E-01	0	1	6.16E-01
4.49E-01	0	1	6.16E-01
1.39E+01	0.029903327	14	1.45E+00
1.85E+00	0.09763837	10	7.42E-01
1.10E+03	-0.632416022	15	3.22E+02
2.23E+04	-2	7	1.64E+04
1.87E+04	-2	12	9.80E+04
8.69E-01	0.046783394	4	6.85E-01
8.53E+00	-0.262512968	14	1.34E+01
2.42E-11	2	22	1.09E-09
2.50E-15	1	54	1.47E-11
4.29E-01	0	2	6.69E-01
2.12E+03	-0.909633701	17	8.09E+03
5.96E-01	-0.459013767	3	2.42E+00
3.21E+02	-0.995421517	10	4.15E+02
1.39E-01	0.185541257	10	4.46E-01
2.30E-01	0.129925774	4	5.31E-01
3.12E+00	-0.416734254	11	1.91E+01
4.48E-04	1	13	7.50E-04
5.84E+01	0.824227759	9	1.48E-02
1.01E+05	-0.50417404	17	2.14E+02
1.15E+05	-0.692816305	18	1.73E+03
1.68E+00	-1	1	4.02E+00
9.67E+00	0.798566605	23	3.46E-04
2.16E+02	0.30603894	36	5.31E-02
1.35E+03	-1	7	8.65E+01
8.66E-01	0.347439817	3	2.93E-01
8.08E+00	-0.302367486	13	1.46E+01
1.40E-04	0.723018215	37	2.75E-05
8.61E+00	-0.369004029	7	5.21E+00

1.24E+02	-0.049735999	38	3.39E+01
1.47E+01	-0.075074659	12	2.55E+00
5.28E+02	-0.396397	12	2.19E+01
2.04E+03	-0.616691446	15	2.84E+02
9.14E+02	-0.35391796	13	2.10E+01
2.48E-03	3	5	2.01E-05
1.14E-12	2	32	1.11E-11
2.65E+00	0.364201614	17	8.97E-02
1.99E-06	1	24	8.84E-07
2.71E+12	-1	36	1.13E+10
5.42E+13	-1	28	3.01E+09
9.44E-01	-0.474534427	13	4.98E+01
4.29E+01	-0.596110687	14	1.69E+02
5.02E-01	-0.242323123	3	1.37E+00
5.02E-01	-0.154951022	5	1.48E+00
1.80E+01	-0.359629192	14	2.80E+01
5.35E+01	-0.707657336	8	3.50E+01
4.07E-01	0.016027892	5	8.13E-01
6.26E+03	-0.152859645	46	7.73E+02
4.62E+00	0.047506353	17	1.53E+00
1.87E+00	-0.341480786	18	6.33E+01
1.04E+00	-0.105628929	9	2.11E+00
1.18E+00	-0.052427534	11	1.97E+00
5.08E+00	-0.248915501	14	1.21E+01
2.34E+01	-0.145703214	15	6.41E+00
5.01E-01	-0.028964061	6	1.05E+00
2.72E+00	-0.317970015	9	6.55E+00
3.81E+05	-0.908376647	20	3.53E+04
2.31E-04	0.735205907	33	5.99E-05
1.74E-01	-0.034800141	1	6.53E-01
1.42E-04	0.805675939	17	1.72E-03
1.90E-13	2	23	1.16E-10
1.26E+11	-0.4602498	38	6.64E+04
7.76E+01	0.952430072	12	2.63E-03
6.53E-01	0.220154428	14	3.42E-01
5.26E+01	-0.500518415	4	3.68E+00
7.88E+02	-0.21967196	14	9.68E+00
1.46E-02	2	6	1.59E-03
1.63E-06	1	13	1.49E-04
2.86E-01	0.817539108	5	4.82E-02
1.46E-01	0.681571623	5	7.79E-02
1.56E+00	-0.144985326	15	6.37E+00
2.15E-01	0.900802105	6	2.60E-02
3.69E+00	-0.40188776	5	3.54E+00
4.79E+00	-0.282920805	6	2.88E+00
7.04E-01	0.272711779	5	3.29E-01
2.82E+03	-0.652805704	12	1.22E+02

1.39E-05	2	13	6.83E-06
6.31E-01	0.049138928	3	6.40E-01
7.89E+00	-0.442327555	16	9.27E+01
2.00E+03	-0.178401942	18	1.36E+01
4.06E+01	-1	6	5.17E+01
1.74E+00	0.068566961	24	1.83E+00
1.05E+00	-0.181495156	4	1.38E+00
9.77E+01	-0.460621774	13	4.51E+01
1.82E+00	0.582065276	19	8.89E-03
5.41E+00	0.402558359	15	7.75E-02
1.70E+01	0.398342726	12	1.07E-01
4.25E-02	1	7	3.61E-03
7.91E+00	-0.166363582	11	4.01E+00
1.55E+01	-0.437995077	6	5.33E+00
4.51E+01	-0.645592683	16	5.22E+02
1.47E+01	-0.289495159	21	7.39E+01
1.15E+01	0.01817129	13	1.47E+00
1.27E+00	-0.250395238	4	1.71E+00
4.29E-01	-0.074873764	2	7.87E-01
3.60E-01	0	10	1.31E+00
1.33E+00	-0.156115915	2	9.38E-01
4.29E-01	0	2	6.69E-01
6.62E+00	0.232143715	6	3.71E-01
1.48E+00	-0.172890119	9	3.02E+00
1.78E+00	-0.483376061	2	1.91E+00
6.95E-01	-0.042292372	2	7.33E-01
7.79E+00	-0.833983169	6	2.58E+01
3.57E-01	0.123837827	17	7.73E-01
1.58E-01	0.130106123	4	5.30E-01
1.16E+00	0.025312879	16	1.74E+00
2.64E+01	0.150980695	5	5.05E-01
2.26E+03	-0.479678263	26	2.58E+03
2.00E+00	-0.430337017	3	2.24E+00
5.63E+04	-0.239954829	31	2.96E+02
1.54E+01	0.113014613	6	5.96E-01
6.22E+04	-0.918714747	19	2.38E+04
7.89E+01	-0.345254446	7	4.69E+00
2.10E-02	0.649840108	11	2.46E-02
7.31E-01	-0.178856505	4	1.37E+00
1.00E+02	-0.535388604	9	2.09E+01
8.23E+00	-0.57826543	5	6.60E+00
4.30E-01	-0.010646535	2	6.85E-01
9.51E+00	-0.087866266	23	1.08E+01
3.47E+02	-0.615750531	18	8.36E+02
2.12E-01	-0.119345608	5	1.31E+00
1.96E+01	-0.394759187	10	1.28E+01
8.64E-01	-0.152710603	16	7.90E+00

1.39E+02	-0.901839538	23	1.44E+05
5.41E-01	0.028804982	3	6.75E-01
5.48E-09	0.90462402	25	5.22E-05
1.17E+00	-0.314224394	9	6.42E+00
1.10E+01	-0.280865743	11	8.19E+00
1.70E+00	0.087992598	7	6.88E-01
1.37E-02	0.596412208	19	7.72E-03
5.10E-03	0.669138224	11	2.18E-02
5.08E-01	-0.298018587	2	1.28E+00
3.03E+00	-0.738224056	5	1.16E+01
6.49E-01	-0.566942183	7	1.25E+01
1.44E+04	-0.807585331	14	8.43E+02
2.86E+00	0.286080779	5	3.14E-01
6.10E-01	-0.049019457	2	7.44E-01
9.18E+00	-0.463876482	3	2.45E+00
3.12E+12	-2	36	6.94E+12
2.68E+03	-2	10	8.14E+03
5.98E-01	0.60903297	4	1.22E-01
1.09E+02	-0.0840813	46	1.69E+02
6.37E-02	0.6565445	11	2.36E-02
1.15E+00	0.519662232	20	1.41E-02
2.97E+05	-0.850787331	15	1.87E+03
5.76E+01	-1	6	8.77E+01
1.33E+01	-0.005077691	14	1.90E+00
5.74E+02	-0.804008192	11	2.14E+02
3.51E+00	-0.037730067	4	8.88E-01
4.30E-01	0	1	6.16E-01
4.30E-01	0	1	6.16E-01
4.38E-01	0	1	6.16E-01
7.82E-01	-0.198947022	8	2.92E+00
7.01E+06	-0.4430169	34	1.55E+04
5.15E-01	-0.285457783	2	1.24E+00
3.77E+00	-0.339181486	8	5.79E+00
1.94E+00	-0.081960836	15	3.83E+00
2.15E+00	1	24	2.11E-06
3.38E+01	-0.457634076	16	1.06E+02
2.39E+00	0.111966686	28	1.23E+00
8.38E-01	-0.080740385	2	7.97E-01
4.36E-01	0.177445383	1	4.54E-01
4.22E-01	0.449223029	13	6.77E-02
3.79E+00	-0.084853932	17	5.01E+00
3.51E+04	-0.838287427	24	1.09E+05
8.27E-01	-0.216750491	4	1.54E+00
4.56E+02	-1	8	6.21E+02
9.07E-05	1	33	1.33E-07
1.84E+02	-0.247123504	13	9.81E+00
6.15E+02	-0.651283917	16	5.48E+02

5.96E-01	0.766654642	8	2.62E-02
1.27E+10	-1	26	6.46E+06
3.08E+02	-0.898430951	10	2.37E+02
8.87E-01	-0.175904551	2	9.79E-01
6.48E+08	-0.525977699	48	5.58E+06
2.17E+02	-0.26689555	9	4.99E+00
1.36E-04	1	12	1.71E-04
4.68E+00	-0.214894857	3	1.28E+00
6.97E+02	-0.394262019	33	5.30E+03
2.83E+05	-0.728250106	20	5.51E+03
5.53E-09	2	15	1.09E-06
2.15E+06	-0.782167566	24	5.53E+04
9.42E-01	-0.347217215	3	1.81E+00
1.78E+00	-0.085973166	3	9.11E-01
2.15E+03	-0.572862609	14	1.42E+02
3.74E-01	0.003272491	7	1.00E+00
1.20E-01	0.733332311	8	3.08E-02
1.73E+03	0.126231592	33	1.15E+00
4.79E-05	1	8	8.00E-04
1.60E+01	0.061409075	9	8.65E-01
3.09E+12	-1	37	6.25E+11
4.39E+05	-0.461433911	25	1.52E+03
1.64E-01	0.865922147	5	4.07E-02
3.10E-07	2	16	1.49E-06
5.20E-07	2	17	2.72E-06
3.99E-02	0.879025872	6	2.84E-02
5.82E-05	2	11	1.69E-06
4.58E+26	-1	71	4.85E+20
1.30E+01	-0.159879628	26	3.99E+01
4.31E-01	-0.096175728	1	7.26E-01
4.20E-01	0.378998412	3	2.70E-01
4.97E+00	-1	6	7.21E+01
8.45E-01	0.486256969	6	1.35E-01
6.87E+00	-1	6	2.37E+02
4.67E+00	0.031018602	18	1.90E+00
8.20E-12	2	38	4.79E-13
2.74E+00	-0.112297124	7	1.67E+00
1.07E+00	-0.148191074	6	1.68E+00
5.56E+01	-0.822756886	6	2.46E+01
1.70E+02	-0.30650608	12	1.20E+01
1.37E+03	0.378766378	18	7.21E-02
4.21E-01	0.023606905	4	7.36E-01
7.85E+00	0.097694722	4	5.86E-01
1.61E+00	0.816876445	9	1.54E-02
4.95E-03	0.23841609	17	2.77E-01
2.37E+01	-0.024323398	11	1.65E+00
3.80E+06	-0.306398631	19	5.68E+01

2.20E+13	-0.440585345	76	2.16E+09
4.21E+10	-2	18	8.20E+07
8.22E-01	-0.203408418	4	1.48E+00
4.63E+03	-2	5	1.93E+03
2.09E+01	0.133360039	7	5.63E-01
1.63E-01	1	5	1.69E-02
5.11E-03	0.524410252	16	2.49E-02
1.58E-01	0.108189619	4	5.67E-01
1.33E+00	-0.638690327	6	1.18E+01
6.82E+01	-1	6	1.74E+02
1.96E+09	-2	14	1.03E+06
1.20E+01	-1	7	4.69E+02
6.34E-01	-0.149219875	2	9.24E-01
8.82E-01	-0.030367889	4	8.68E-01
1.31E+00	-0.397510143	6	4.54E+00
4.07E-01	0.14602161	2	4.88E-01
4.12E-01	0.222514469	1	4.21E-01
2.57E-01	0.715480456	2	1.42E-01
2.26E+02	-0.928926539	19	2.64E+04
8.75E+10	-1	25	4.86E+08
4.48E-03	0.983542201	15	7.21E-04
1.59E-01	0.84724119	2	1.07E-01
6.38E+01	-0.770826756	9	7.33E+01
2.53E-07	0.867696257	39	1.09E-06
5.64E-01	-0.011124321	2	6.86E-01
1.64E+00	-0.303842853	6	3.13E+00
4.40E+01	-0.763687487	5	1.27E+01
8.84E-03	0.695817895	14	9.22E-03
4.76E+02	-0.510052213	22	1.09E+03
1.31E+00	-0.23641624	2	1.12E+00
7.84E+04	-0.370533848	32	2.81E+03
3.81E+04	-0.599386101	32	1.03E+05
1.54E+00	-0.164775241	18	1.20E+01
4.38E-01	-0.00540881	1	6.21E-01
3.09E+01	-0.638033831	11	7.61E+01
3.98E+00	-0.39065297	5	3.41E+00
1.23E+01	0.149761966	7	5.23E-01
6.34E+03	-0.480098217	12	3.84E+01
5.99E-01	-0.099109187	2	8.29E-01
8.76E+03	-2	8	6.10E+03
1.28E+00	-0.363085301	11	1.37E+01
5.02E+00	-1	3	1.55E+01
1.69E+04	-0.629255494	14	2.17E+02
1.15E+00	0.01849212	5	8.06E-01
5.09E-01	2	13	3.02E-05
2.79E+00	0.360169458	9	1.76E-01
4.46E+00	-0.702439512	10	7.61E+01

2.68E+00	0.208932153	3	4.21E-01
4.81E+00	0.50631307	3	1.93E-01
1.31E+00	0.506584218	15	3.36E-02
1.93E+00	0.093609849	4	5.93E-01
2.10E+02	-0.828324253	11	2.49E+02
2.03E+04	-0.010690444	9	1.27E+00
1.91E+05	-0.623843917	13	1.45E+02
1.30E-02	1	6	3.41E-03
2.18E+01	-0.217693754	13	7.95E+00
2.31E+03	-0.522915116	16	1.84E+02
1.01E+02	-0.374942851	7	5.35E+00
7.51E+01	-1	5	4.98E+01
8.15E-01	-0.539654559	4	4.15E+00
1.58E+02	-0.600739444	5	7.14E+00
7.49E+02	-0.585024036	27	1.44E+04
2.52E+00	-0.39378573	7	5.81E+00
3.76E+01	-2	3	4.01E+01
3.09E+00	-0.730069318	5	1.13E+01
5.44E-01	-0.123435394	5	1.33E+00
4.29E-01	0	2	6.69E-01
8.18E-04	0.617924925	23	2.85E-03
6.81E-01	-0.084541324	6	1.31E+00
3.17E+02	-2	6	2.53E+03
1.16E+00	-0.109405717	5	1.26E+00
1.08E+00	0.152443832	8	5.25E-01
6.10E-01	0	5	8.60E-01
5.25E-01	0.01022961	6	8.97E-01
3.85E+01	-0.380574353	6	4.25E+00
9.34E+00	-0.474673072	6	6.17E+00
3.40E+00	-0.389730631	4	2.62E+00
3.86E+04	-0.48715621	32	1.76E+04
7.98E+03	-1	13	2.35E+03
1.34E+00	-0.338334512	2	1.39E+00
2.90E+00	-0.251468661	2	1.15E+00
4.29E-01	-0.009198694	2	6.83E-01
3.84E+06	-0.944421727	27	1.83E+06
1.58E+00	-0.318613078	5	2.64E+00
7.89E+00	-0.180616254	9	3.15E+00
3.31E-02	0.250729177	14	2.71E-01
3.85E-01	-0.142113876	2	9.10E-01
4.56E+01	-0.434761428	10	1.62E+01
5.21E+05	-2	8	2.11E+05
8.98E+06	-3	8	2.78E+05
5.98E+00	-0.307717172	12	1.21E+01
3.52E-01	0.29005403	2	3.57E-01
4.22E+05	0.24635301	33	1.65E-01
2.48E-01	0.271190003	13	2.42E-01

7.33E-16	2	35	1.16E-16
1.07E+00	-0.604703116	10	4.32E+01
4.21E-01	0.854209426	3	7.77E-02
4.52E-01	-0.502514879	1	1.46E+00
4.38E-01	0	1	6.16E-01
8.16E+01	-0.430058235	21	3.36E+02
5.16E-01	-0.172976543	1	8.28E-01
1.43E+01	0.008988642	12	1.45E+00
1.33E+02	-0.439458863	4	3.05E+00
8.34E-01	0.067061192	3	6.10E-01
1.62E-04	1	26	7.09E-07
7.59E+01	-1	6	3.40E+02
3.91E+09	-0.379427762	50	3.20E+05
7.30E-01	-0.009813784	6	9.72E-01
3.78E+02	-0.924235867	12	7.50E+02
9.15E+13	-2	27	2.16E+12
1.15E+00	-0.092232908	3	9.26E-01
8.40E-01	-0.087375663	12	2.77E+00
5.20E+01	-1	6	3.24E+02
5.58E-01	-0.080809349	1	7.07E-01
3.40E+00	-0.444990951	7	7.29E+00

Worm-wide

BC_02			BC_05	
polii	gatc.num	FDR	polii	gatc.num
-0.00572186	14	2.89E+00	0.533926492	14
0.512613716	12	1.04E-01	0.315770545	12
-0.198749985	26	8.79E+01	-0.02868195	26
1	17	8.70E-04	0.885275102	17
-1	7	2.56E+02	-0.596921882	7
-0.002363716	6	1.26E+00	0.297762719	6
-0.116514678	13	5.30E+00	0.028405649	13
-0.33137377	27	4.97E+02	-0.581759675	27
0.544106866	20	3.63E-02	0.543737802	20
0.425920091	30	5.65E-02	0.659084486	30
0.654454638	8	8.13E-02	0.515449413	8
0.561535296	9	1.10E-01	1	9
2	12	4.20E-05	2	12
2	4	1.12E-02	0.505503504	4
0.105742277	47	9.58E+00	0.435088396	47
0.881811329	6	4.71E-02	1	6
2	8	2.46E-04	3	8
1	5	1.28E-02	0.954772417	5
0.031785662	3	8.56E-01	0	3
0.047684755	7	1.14E+00	-0.851635149	7
-0.208206073	9	4.65E+00	-0.508936355	9
-0.060909505	19	7.76E+00	0.200169812	19
-0.109656442	10	3.32E+00	0.865621138	10
-0.768574032	25	3.84E+04	-0.515212956	25
0.164782539	5	6.54E-01	-0.288020925	5
-0.058996401	25	1.59E+01	-0.157984198	25
-0.035036171	16	4.42E+00	0.348874267	16
0.02415493	10	1.64E+00	0.05696763	10
0.318674037	10	3.50E-01	-0.994232574	10
0.803237126	6	6.31E-02	0.522340366	6
-0.185220143	73	2.26E+05	-0.19342353	73
-0.058119022	7	1.76E+00	0.105801118	7
-0.733877314	10	8.79E+01	-0.637866145	10
-0.05614103	5	1.37E+00	-0.351409959	5
0	1	7.61E-01	0	1
-0.556663828	15	1.65E+02	0.174859911	15
-0.520375919	15	1.27E+02	0.162105525	15
-0.055550669	1	8.42E-01	-0.204880467	1
0.20318041	11	6.57E-01	0.021937796	11
0.002082164	2	8.37E-01	0.058301948	2
0.604081159	35	2.95E-03	0.720488117	35

0.285480926	12	4.09E-01	0.364090038	12
2	16	1.00E-06	3	16
0.22976403	35	7.51E-01	0.860868847	35
-0.036461186	16	4.47E+00	-0.173533198	16
0.297578926	22	3.31E-01	0.690458466	22
-0.240667864	17	2.52E+01	-0.13541799	17
-0.267005078	3	1.85E+00	-0.004802815	3
-0.079737609	13	4.19E+00	-0.164673266	13
-0.517874203	12	5.13E+01	-0.910668295	12
-0.154029882	11	4.91E+00	-0.198197023	11
0.172125293	6	6.60E-01	0.40805719	6
2	18	8.15E-09	3	18
-0.184246363	12	6.90E+00	0.056231294	12
0.002804742	22	6.00E+00	0.63750396	22
0.098114102	11	1.19E+00	0.156374187	11
-0.002040939	8	1.54E+00	0.003959095	8
-0.74061296	9	6.21E+01	-0.870492739	9
0.733387711	43	1.03E-04	0.897811481	43
0.495430831	3	2.60E-01	0.315627472	3
0.117053333	9	9.56E-01	0.390351316	9
-0.006508678	4	1.05E+00	-0.041288333	4
-0.359439419	7	6.05E+00	-0.910372386	7
-0.247392752	11	8.30E+00	-0.434312078	11
0	1	7.61E-01	0	1
1	33	2.24E-06	1	33
-0.278629792	18	4.19E+01	-0.072111286	18
-0.096729236	6	1.80E+00	-0.156668273	6
-0.490591986	12	4.35E+01	-0.598515072	12
0.180841726	6	6.39E-01	0.000307414	6
0.932039749	32	4.96E-05	1	32
-0.640209449	5	9.61E+00	-1	5
0.243079794	6	5.07E-01	0.234566595	6
0.696383383	11	4.09E-02	1	11
0.334951715	1	4.15E-01	0.289238642	1
2	5	4.90E-04	2	5
2	21	5.78E-07	2	21
2	33	6.39E-09	2	33
0.115725884	7	8.61E-01	0.308585086	7
-0.593452324	14	1.55E+02	-0.015180273	14
-0.020659986	4	1.09E+00	0.019997077	4
0.565081882	8	1.21E-01	0.214763228	8
-0.094817568	5	1.56E+00	-0.27992752	5
0.709609195	3	1.50E-01	-0.761311724	3
-0.17424828	63	3.11E+04	0.163077087	63
-0.092463278	31	5.16E+01	0.050488771	31
-0.046443619	15	4.28E+00	0.486877068	15
-0.209729687	3	1.59E+00	-0.938021336	3

-0.058828449	10	2.54E+00	-0.061291203	10
0.209917768	6	5.74E-01	0.012147479	6
-0.09268314	44	2.99E+02	0.144609473	44
-0.000341907	3	9.30E-01	-0.051107431	3
-0.139975821	7	2.46E+00	-0.296377879	7
-6.84E-05	12	2.28E+00	-0.021922183	12
-0.257609039	9	5.92E+00	-0.010701276	9
-0.060932103	4	1.23E+00	-0.261584613	4
-0.124713568	8	2.68E+00	0.524621557	8
-0.016103769	11	2.26E+00	0.391351613	11
-0.231638126	11	7.60E+00	-0.182221827	11
0.053115023	7	1.11E+00	0.455440361	7
0.090749858	10	1.16E+00	0.338283942	10
0.41403379	47	2.43E-02	0.5064446637	47
0	4	1.03E+00	-0.096680536	4
-0.09607885	33	7.10E+01	-0.165678444	33
-0.392658912	12	2.41E+01	-0.429955173	12
-0.485787706	4	4.32E+00	0.200295027	4
-0.254982108	11	8.66E+00	-0.203928153	11
-0.031949566	7	1.58E+00	-0.020514265	7
0.118523028	44	6.35E+00	0.746366295	44
-0.288911727	5	2.98E+00	-0.01024019	5
-0.040833393	1	8.20E-01	0	1
-0.114260778	15	6.96E+00	-0.216413236	15
0.231308577	18	6.06E-01	0.683967356	18
0.948965269	100	6.76E-13	1	100
-0.115874607	22	1.93E+01	1	22
0.527363787	19	4.68E-02	1	19
0.004227613	33	1.74E+01	0.068886904	33
2	42	2.32E-13	2	42
0.295464336	26	3.20E-01	-0.501553808	26
-0.091256418	15	5.90E+00	-0.17791204	15
0.007648174	23	6.30E+00	0.0377637	23
-0.211568684	12	8.13E+00	0.247570644	12
1	69	1.27E-10	1	69
0.042980591	6	1.07E+00	0.094860091	6
0.034583908	18	3.11E+00	0.824321257	18
0.538170497	34	8.70E-03	1	34
0.293796412	16	3.70E-01	0.335825292	16
0.221269025	16	6.40E-01	0.430710739	16
1	13	2.79E-04	2	13
0.567479738	29	1.02E-02	0.662985647	29
-0.197816125	5	2.20E+00	0.004596843	5
-0.171937441	8	3.31E+00	-0.15767431	8
2	3	6.97E-03	0.891988472	3
0.763214664	7	6.05E-02	2	7
0.242719718	2	4.94E-01	0	2

0.001117073	10	1.86E+00	0	10
-0.332999301	12	1.69E+01	-0.159903828	12
-0.011216007	5	1.18E+00	-0.0048259	5
-0.105180706	13	4.93E+00	-0.133982723	13
0.737974998	2	1.67E-01	0.88110548	2
2	15	6.62E-05	2	15
0.649955465	40	7.11E-04	0.927938658	40
2	19	1.68E-07	3	19
2	35	2.72E-13	3	35
-0.250142813	25	1.30E+02	-0.264127291	25
-0.294252907	6	3.74E+00	0.893299228	6
0.128127332	11	1.00E+00	0.063109934	11
-0.111744116	12	4.46E+00	-0.232150659	12
-0.00160261	7	1.39E+00	0.178038938	7
0.074089635	8	1.10E+00	-0.157588526	8
0.017722454	42	3.32E+01	0.073017838	42
0.825541223	6	5.81E-02	0.823267551	6
3	4	3.58E-05	4	4
0.238757906	15	5.56E-01	0.240523375	15
-0.062170062	26	1.86E+01	-0.20877692	26
0.456878487	42	1.54E-02	0.449785293	42
-0.044612294	33	3.45E+01	0.115087416	33
0.061801507	119	5.34E+03	0.183338991	119
0.027195023	4	9.47E-01	-0.285143686	4
-0.10442841	5	1.61E+00	2	5
0.616790482	26	8.31E-03	1	26
0.345972853	13	2.75E-01	-0.228902605	13
0.742996757	31	7.89E-04	2	31
1	11	8.00E-04	3	11
0.506972158	14	8.95E-02	0.667371421	14
-0.239151721	2	1.42E+00	-0.067964697	2
0.999993478	77	5.93E-11	1	77
-0.874481216	7	5.00E+01	-0.808800004	7
-0.143727655	5	1.83E+00	-0.651940452	5
-0.023014915	1	7.94E-01	-0.112857223	1
0	1	7.61E-01	-0.044311531	1
0.731453199	2	1.69E-01	-0.094330478	2
0.732688744	15	1.62E-02	1	15
0.036239077	32	1.02E+01	0.059268487	32
0.12254897	11	1.03E+00	0.110908016	11
0.010406996	1	7.47E-01	0.017620452	1
0.013294855	6	1.19E+00	0.007504882	6
0.103126592	10	1.09E+00	0.10293119	10
-0.052735072	13	3.53E+00	0.001663324	13
0.095576549	23	2.57E+00	0.108274356	23
0	5	1.13E+00	0.130504055	5
0.174950453	13	8.22E-01	0.228972176	13

-0.025812035	7	1.54E+00	0	7
0	2	8.41E-01	0	2
0.512580525	46	3.96E-03	0.646286508	46
0.590903301	6	1.39E-01	0.497011946	6
0.026628773	11	1.77E+00	-0.144092283	11
-0.016544881	28	1.37E+01	-0.147607358	28
0.613757225	15	3.79E-02	0.995899794	15
0.022666417	69	3.55E+02	0.196461839	69
-0.068468308	34	5.47E+01	0.006594641	34
0.482430785	45	7.65E-03	1	45
0.104662752	23	2.34E+00	0.212441584	23
0.283472666	26	3.67E-01	0.090787776	26
1	7	3.72E-03	2	7
-0.044946749	4	1.17E+00	0.059601678	4
-7.70E-05	3	9.29E-01	0.031983682	3
0.047889785	21	3.55E+00	0.151760138	21
0.32826153	27	2.15E-01	0.812342707	27
0.056683552	8	1.19E+00	0.211448132	8
-0.131243018	17	1.06E+01	-0.066303645	17
0.114673499	21	1.89E+00	0.676030726	21
-0.666485232	12	1.25E+02	-0.69644599	12
1	6	6.11E-03	2	6
-0.171836684	31	1.48E+02	-0.183378324	31
-0.211268306	20	3.43E+01	-1	20
0.043505564	5	9.81E-01	-0.375675936	5
0.244491887	8	5.11E-01	-0.133880444	8
0.24912659	16	5.18E-01	0.554398997	16
0.03666882	9	1.41E+00	0.387426624	9
0.436291317	16	1.26E-01	0.492925912	16
1	10	6.06E-03	2	10
-0.321202308	2	1.70E+00	-0.039217237	2
0.045922124	12	1.73E+00	-0.018685647	12
0.125133734	12	1.07E+00	0.441894433	12
1	76	6.37E-14	2	76
0.174791679	17	9.38E-01	0.275583445	17
0	3	9.29E-01	0	3
-0.001841486	12	2.30E+00	-0.017426337	12
0.04704514	56	6.23E+01	0.450017274	56
0.164540604	11	8.16E-01	0.453455572	11
0.286675134	17	3.87E-01	1	17
-0.197463921	6	2.61E+00	0.189249457	6
0	1	7.61E-01	-0.016112168	1
-0.776559312	21	8.60E+03	-0.760486912	21
-0.013296496	13	2.74E+00	0.035770966	13
-0.561066532	9	2.59E+01	-0.751215824	9
-0.031522276	4	1.13E+00	-0.040202972	4
0.096150274	5	8.23E-01	0.046768401	5

0.131261812	16	1.26E+00	0.060555872	16
-0.175837163	15	1.08E+01	-0.041943452	15
0.606836635	3	1.95E-01	0.343294137	3
2	9	1.20E-04	3	9
3	2	1.64E-03	3	2
3	23	8.62E-13	3	23
3	1	5.06E-03	3	1
0.545442782	6	1.65E-01	2	6
0.476082953	2	2.96E-01	2	2
-0.336226158	20	1.07E+02	0.061099614	20
-1	4	2.87E+01	-1	4
0.18230938	10	7.17E-01	0.263914562	10
1	38	3.66E-08	2	38
0.32406807	1	4.24E-01	0.442554454	1
0.315212205	32	2.26E-01	0.042511871	32
0.282868968	62	2.72E-01	0.435323871	62
-0.006527419	7	1.42E+00	0.282328188	7
-0.045110438	23	1.08E+01	0.109312607	23
-0.086746562	31	4.78E+01	0.246222876	31
0.004809853	10	1.82E+00	-0.014055908	10
-0.102179531	6	1.83E+00	0.062953545	6
0	6	1.25E+00	0	6
0.006641331	16	3.23E+00	0.227358884	16
0.022934568	15	2.61E+00	0.255092494	15
0.141429181	65	1.09E+01	0.089854855	65
0.809060785	27	7.59E-04	1	27
0.285013277	35	3.31E-01	0.90054	35
0.17031583	6	6.65E-01	0.107990974	6
-0.03691799	10	2.27E+00	0.628163685	10
0.324370649	2	4.13E-01	-0.53473034	2
1	5	2.40E-02	0.974996498	5
1	13	8.03E-04	1	13
4	4	6.70E-06	5	4
4	4	6.23E-06	4	4
1	5	2.26E-02	0.093627447	5
0.701905628	13	2.83E-02	0.37046732	13
0.278736415	22	3.98E-01	0.250691773	22
0.380413702	29	1.06E-01	0.592223035	29
0.158489762	58	5.29E+00	0.2554305	58
0	3	9.29E-01	-0.093939609	3
0.969224486	23	3.42E-04	2	23
0.088006279	55	2.29E+01	0.185673115	55
0.015949911	6	1.18E+00	-0.268471821	6
0.165130838	79	9.75E+00	0.206579162	79
-7.52E-06	6	1.25E+00	-0.022297112	6
-0.000127025	1	7.62E-01	0.018603138	1
-0.089812487	26	2.55E+01	-0.038551321	26

-0.56988445	7	1.43E+01	0	7
-0.715385037	19	2.29E+03	-0.117267644	19
-0.196336765	12	7.42E+00	-0.181513689	12
-0.164174977	8	3.19E+00	-0.17138773	8
0.257661754	50	5.06E-01	0.597861653	50
-0.317880693	3	2.11E+00	-0.051663397	3
0.055039485	13	1.77E+00	0.041952104	13
1	25	2.26E-06	2	25
0.7352721	27	1.80E-03	0.741735202	27
1	18	7.74E-05	2	18
-0.054716363	11	2.81E+00	-0.552999401	11
0.721477996	8	6.02E-02	0.664817064	8
-0.212789745	12	8.19E+00	0.147204401	12
-0.088852123	2	1.02E+00	0.719596616	2
0.028861146	16	2.73E+00	1	16
-0.172733671	12	6.43E+00	-0.665936758	12
-0.091027179	24	1.97E+01	0.183899233	24
0.011842416	3	9.01E-01	-0.338386039	3
-0.453834827	24	9.23E+02	-0.565062139	24
-0.720210459	11	1.19E+02	-0.246640769	11
-0.410402895	13	3.47E+01	-0.547646198	13
-0.027697951	8	1.73E+00	0	8
-0.175232317	18	1.77E+01	-0.154489035	18
-0.29642571	15	2.56E+01	-0.256328201	15
-0.056252775	35	5.18E+01	-0.054851717	35
0.535162687	19	4.38E-02	0.897077803	19
-0.034728732	34	3.36E+01	0.256867861	34
0.19516672	26	1.00E+00	0.443666822	26
0.118822029	15	1.31E+00	0.557020114	15
0.200118089	11	6.68E-01	0.254925085	11
0.959703326	5	4.61E-02	1	5
-0.149377382	8	2.99E+00	-0.526298449	8
-0.49025742	9	1.84E+01	-0.180709923	9
-0.423632073	6	6.06E+00	-0.405755186	6
-0.285778039	6	3.63E+00	-0.284782526	6
-0.457544634	2	2.29E+00	0.352068406	2
0	4	1.03E+00	0.003015464	4
0.268064717	29	4.33E-01	0.237293191	29
0.066475985	5	9.08E-01	0.001237329	5
0.063577548	35	8.79E+00	-0.045029857	35
0.039768677	4	9.13E-01	-0.004292352	4
0.809992123	17	6.12E-03	0.780642253	17
0.036375615	16	2.58E+00	0.390093671	16
0.183890973	14	7.99E-01	0.389263899	14
-0.0050243	10	1.92E+00	0.11174351	10
-0.486283502	10	2.40E+01	0.117614739	10
-0.288322741	5	2.97E+00	-0.324760248	5

0.111983225	6	8.26E-01	-0.857750495	6
-0.207442627	6	2.71E+00	-0.118829491	6
-0.291745779	4	2.43E+00	-0.448789334	4
-0.128175173	13	5.71E+00	0.140427051	13
-0.006453927	3	9.45E-01	0.066742415	3
0.589266914	6	1.40E-01	0	6
-0.477083838	7	9.80E+00	-0.545388323	7
0.085106491	12	1.37E+00	1	12
-0.029206183	8	1.74E+00	0.001563946	8
-0.19619756	23	5.06E+01	0.102710667	23
-0.362853549	16	5.23E+01	-0.704288514	16
0.748072191	29	1.07E-03	0.793535796	29
-0.102687822	7	2.11E+00	-0.087324821	7
0.55578393	9	1.13E-01	0.024519073	9
1	8	2.28E-03	2	8
1	28	2.82E-06	2	28
-0.766375583	6	2.17E+01	0.662924411	6
-0.117335582	2	1.09E+00	-0.68785725	2
0.73979091	9	4.62E-02	-0.032671559	9
-0.302972454	33	1.30E+03	0.26689104	33
-0.855289893	5	1.97E+01	0.892658924	5
2	13	1.49E-04	2	13
0.982582726	35	1.09E-05	1	35
0.768401785	11	2.72E-02	0.983174035	11
-1	6	8.33E+01	-1	6
-1	7	9.93E+01	-0.909691198	7
0.176206821	11	7.64E-01	1	11
-0.295192872	10	8.79E+00	-0.731213315	10
0.449899118	26	5.54E-02	0.572982509	26
-0.147823945	9	3.47E+00	-0.048361018	9
0.117528244	15	1.32E+00	0.339228994	15
1	4	2.78E-02	1	4
1	9	2.23E-03	2	9
0.35688045	14	2.48E-01	0.506407277	14
1	34	1.34E-06	1	34
-0.651445059	12	1.14E+02	-0.400138964	12
-0.441196162	6	6.47E+00	-0.328612268	6
0.21788198	45	1.05E+00	0.498696195	45
0.440839482	6	2.43E-01	0.628053485	6
-0.476518539	6	7.38E+00	0.415154674	6
-0.681211582	18	1.19E+03	-0.545145745	18
-0.615713099	6	1.24E+01	0.145785368	6
-0.505741648	1	1.90E+00	-0.108326956	1
-0.80200246	8	5.58E+01	-0.539542548	8
0.097613199	9	1.05E+00	-0.296479961	9
-0.212669511	5	2.31E+00	-0.599146121	5
-0.59578348	10	4.26E+01	-0.385964849	10

0.020050375	41	2.90E+01	0.251795764	41
-0.129028763	3	1.30E+00	0.064508905	3
-0.560077843	6	1.01E+01	-0.785836039	6
0.407617544	4	3.08E-01	-0.16457303	4
0.508485525	21	4.57E-02	0.917962151	21
0.502949092	1	3.06E-01	-0.321517188	1
-0.16330926	8	3.18E+00	-0.613759987	8
0.369641507	4	3.44E-01	0	4
0.947902124	11	9.91E-03	0.624097949	11
-0.006707049	2	8.54E-01	-0.009751404	2
-0.00971823	1	7.75E-01	-8.54E-05	1
-0.027085154	8	1.73E+00	-0.192777557	8
0.484324272	12	1.24E-01	0.530038317	12
4	8	2.62E-08	4	8
2	9	3.16E-05	3	9
0.313888604	6	3.90E-01	1	6
-0.071202325	5	1.44E+00	-0.082358403	5
0.379433896	32	9.39E-02	0.753711523	32
0.993590088	10	1.01E-02	2	10
0.387672373	5	3.11E-01	0.684267965	5
1	22	1.75E-04	0.998174349	22
0.171770393	7	6.84E-01	0.195010116	7
-0.485278775	13	5.60E+01	-0.133724357	13
-0.152407023	53	3.68E+03	0.097350225	53
-0.393753483	15	5.15E+01	-0.309554612	15
-0.32377923	12	1.60E+01	0.504335721	12
1	6	7.56E-03	0.968229123	6
0.26860174	2	4.67E-01	0.16203102	2
-0.047983984	31	2.86E+01	0.212137207	31
0.069364867	3	7.77E-01	0.771086125	3
0.091618517	4	7.83E-01	-0.037940084	4
0.990229815	31	2.96E-05	1	31
0	4	1.03E+00	0	4
-0.177818834	7	2.87E+00	-0.513433701	7
0.218106473	26	7.71E-01	-0.217057186	26
0.001911801	10	1.85E+00	-0.067110409	10
-0.156666022	5	1.91E+00	0.707898923	5
0.207642409	4	5.56E-01	0.277527673	4
0.854843377	37	4.58E-05	1	37
3	9	3.97E-06	3	9
3	6	1.04E-04	3	6
0.033570748	10	1.56E+00	-0.013237956	10
0.052800617	9	1.31E+00	0.273454687	9
0.484096894	12	1.24E-01	2	12
0.908076919	11	1.24E-02	1	11
0.658251511	10	5.90E-02	0.955381342	10
-0.064056036	37	7.45E+01	0.118679631	37

-0.099300044	11	3.61E+00	-0.087794969	11
0.009670573	21	5.09E+00	0.099928938	21
0.69652346	2	1.83E-01	0.404110952	2
0.343299428	24	1.98E-01	0.409082231	24
0.204765304	17	7.40E-01	0.34205881	17
0.027176089	23	5.16E+00	0.362034422	23
0.852477161	6	5.26E-02	-0.216327929	6
-0.291495398	7	4.58E+00	0.246818695	7
-0.149953484	5	1.87E+00	-0.275635083	5
-0.182953868	6	2.47E+00	-0.054113597	6
0	5	1.13E+00	0.275155188	5
-0.002966344	3	9.36E-01	-0.182440465	3
0.458144767	20	7.93E-02	1	20
-0.453652787	12	3.48E+01	-0.035509005	12
0.215160873	51	1.23E+00	0.148292398	51
-0.537276771	8	1.70E+01	-1	8
-0.306264242	13	1.78E+01	-0.821917879	13
0.369812792	2	3.74E-01	0.192525014	2
-0.082542214	10	2.88E+00	-0.133337097	10
-0.107407398	2	1.06E+00	0	2
0.058921124	4	8.63E-01	0.457408472	4
0.037101499	29	7.79E+00	0.130144897	29
0.084242881	14	1.57E+00	-0.063856963	14
-0.158197148	8	3.11E+00	-0.084684796	8
0.014445309	13	2.29E+00	-0.052633153	13
-0.128722303	28	5.34E+01	-0.548967471	28
-0.027502233	3	9.97E-01	-0.023454068	3
-0.393770947	15	5.15E+01	-0.110842181	15
-0.100763108	7	2.09E+00	0	7
0.494902096	56	2.27E-03	0.780231856	56
2	13	5.97E-06	2	13
-0.206677956	18	2.30E+01	-0.336328147	18
0.165340147	5	6.53E-01	0.129349176	5
1	13	2.36E-03	2	13
-0.142350378	16	9.92E+00	-0.029076436	16
-0.688218137	21	3.73E+03	-0.796508038	21
0.007161288	4	1.01E+00	0	4
-0.00018981	1	7.62E-01	0	1
0.308078709	27	2.72E-01	0.694908775	27
0.634674605	2	2.09E-01	2	2
-0.102220885	6	1.83E+00	0.6955011	6
0.093796192	14	1.47E+00	0.050326772	14
-0.001598082	2	8.44E-01	0.031683177	2
0.020002434	29	9.64E+00	0.134098459	29
0.581519091	33	5.26E-03	0.756691619	33
-0.068912723	5	1.43E+00	0	5
-0.610478248	14	1.74E+02	-0.251448945	14

-0.902143799	5	2.30E+01	-0.778435322	5
-0.452734711	5	5.14E+00	-0.421472018	5
0.120893916	76	3.36E+01	0.258538713	76
-0.007692128	7	1.43E+00	-0.194416464	7
0.14723064	8	7.90E-01	0.314578399	8
0.183927591	8	6.70E-01	-0.124303708	8
-0.028204768	36	3.82E+01	-0.375769393	36
-0.251394489	33	6.29E+02	-0.390361469	33
-0.664956263	20	2.10E+03	-0.65462508	20
-0.261299775	42	4.35E+03	-0.083569793	42
-0.146871779	12	5.51E+00	-0.246557982	12
-0.072295981	30	3.47E+01	0.327841843	30
-0.068389862	7	1.83E+00	0.163513564	7
0.099427364	4	7.65E-01	-0.088282189	4
0.210010013	5	5.63E-01	0.08334025	5
0.111044526	41	6.13E+00	0.271118348	41
0.257974151	15	4.84E-01	0.51536119	15
0.393026365	7	2.76E-01	0.653133367	7
0.042714026	14	2.08E+00	-0.00306455	14
-0.021686303	21	6.85E+00	0.018323048	21
0.646531462	3	1.76E-01	0.428131024	3
0.23402552	16	5.81E-01	0.362407866	16
-0.046368561	11	2.68E+00	-0.387217348	11
0.142759473	13	1.01E+00	0.010378484	13
0.307375005	46	1.96E-01	0.198872883	46
-0.00012515	7	1.38E+00	-0.012114599	7
0.414502649	8	2.38E-01	0.758320643	8
-0.046739286	92	3.64E+04	0.124931359	92
-0.597264309	8	2.23E+01	-0.622367209	8
-0.837523782	5	1.86E+01	-1	5
-0.019102182	1	7.88E-01	0	1
-0.696712468	9	5.01E+01	-1	9
-0.393561514	10	1.47E+01	-0.314561382	10
-0.008648181	12	2.40E+00	-0.139057183	12
-0.963211311	10	2.93E+02	-1	10
0.208312399	5	5.66E-01	0.377116664	5
2	10	2.04E-05	3	10
0.341710234	16	2.58E-01	0.675262997	16
0.5051985	3	2.53E-01	0.196531845	3
0.021379624	5	1.06E+00	0.623594116	5
1	14	1.89E-03	1	14
0.016657296	2	8.11E-01	0.084307761	2
0.115566229	4	7.30E-01	0.768930709	4
0.134433276	16	1.23E+00	0.041968232	16
0.931339692	16	3.02E-03	0.625977871	16
2	4	1.20E-02	-0.067351893	4
0.182889496	6	6.35E-01	0.212277625	6

-0.055805068	21	9.46E+00	0.373597676	21
-0.516210182	18	3.01E+02	-0.126096758	18
-0.84010204	16	1.91E+03	-0.591039288	16
0.156951221	4	6.46E-01	-0.110345003	4
0.013994651	9	1.58E+00	0.061843064	9
0.40239466	12	2.03E-01	0.875540739	12
3	38	1.30E-16	3	38
-0.540543723	21	9.24E+02	-1	21
0.942627578	9	1.72E-02	0.116205599	9
1	23	2.34E-05	1	23
-1	8	4.76E+02	-0.485648295	8
-0.866756478	43	2.63E+08	-0.002636628	43
0.799925694	13	1.51E-02	1	13
0.77577461	13	1.76E-02	1	13
-0.393643925	14	4.00E+01	-0.314244	14
-0.148606033	2	1.17E+00	0.284287593	2
0.18346903	12	7.56E-01	0.490963203	12
0.481633995	2	2.93E-01	0.61666913	2
0.064384691	9	1.23E+00	0.950774442	9
0.165668491	15	9.38E-01	0.75558711	15
0.143717209	1	5.87E-01	0.162322111	1
0.439414033	4	2.80E-01	0.363453958	4
1	4	3.64E-02	1	4
0.576706898	18	3.44E-02	1	18
-0.260616403	10	7.33E+00	-0.912884437	10
-1	4	2.25E+01	-0.809416666	4
0.752795871	11	2.97E-02	0.15454247	11
0.962957756	52	1.52E-07	2	52
0.377365311	15	2.06E-01	0.170651731	15
2	14	3.59E-06	3	14
0.430784819	2	3.27E-01	0.636790865	2
0.377842462	5	3.21E-01	0.369713949	5
1	13	2.72E-04	3	13
-0.023079191	6	1.37E+00	-0.151256186	6
-0.20989508	10	5.62E+00	0.382133773	10
-0.612059349	6	1.22E+01	-0.662499345	6
2	3	1.53E-02	0.748725068	3
0.699637761	17	1.47E-02	0.570151638	17
0.20197178	7	6.04E-01	0.240289169	7
0.073911456	14	1.68E+00	-0.397358994	14
2	9	6.18E-05	2	9
2	6	4.31E-03	2	6
-2	5	2.06E+02	-1	5
0.767311868	10	3.33E-02	0.954076816	10
0.581718901	4	1.84E-01	0.657655702	4
0.126039867	24	1.98E+00	0.919208199	24
0.0193949	33	1.40E+01	0.113644028	33

0.035055522	1	7.15E-01	-0.058784672	1
0.029162142	3	8.62E-01	0.372475753	3
0.141054903	6	7.41E-01	-0.217356157	6
-0.23333151	11	7.67E+00	-0.671292002	11
-0.961943187	12	7.40E+02	-1	12
0.685261286	11	4.35E-02	1	11
0.117407531	4	7.26E-01	0.554079194	4
0.480656033	11	1.38E-01	0.018776072	11
0.764371956	5	8.84E-02	1	5
0.533021399	4	2.12E-01	0.840534152	4
-0.157943397	4	1.64E+00	-0.057014961	4
-0.257310405	9	5.91E+00	1	9
-0.136119857	3	1.32E+00	-0.172061077	3
0.418713897	17	1.36E-01	1	17
-0.209637573	7	3.27E+00	0.612509857	7
-0.714633751	4	8.49E+00	-0.346905097	4
-0.524612178	14	9.73E+01	0.169671737	14
0.635257444	105	8.30E-08	2	105
-0.61969372	6	1.26E+01	0.008717817	6
-0.55111299	7	1.33E+01	-0.281272445	7
0	3	9.29E-01	-0.002489418	3
0	8	1.53E+00	0	8
-0.478576048	7	9.86E+00	-0.77926549	7
-0.041089751	2	9.20E-01	-0.067992923	2
0	8	1.53E+00	0	8
0.017276909	11	1.87E+00	-0.105038209	11
0	4	1.03E+00	0	4
1	21	8.90E-05	2	21
1	5	3.10E-02	0.565390245	5
1	6	1.73E-02	1	6
1	108	1.69E-18	2	108
2	2	4.80E-03	3	2
0.916353242	203	1.53E-23	1	203
0.873934382	4	7.75E-02	0.986423304	4
-0.555031689	13	8.75E+01	-0.369656746	13
0.040729984	10	1.51E+00	-0.060063518	10
-0.738500744	10	9.00E+01	-0.191681133	10
-0.469514736	8	1.26E+01	-0.65702262	8
-0.830277891	5	1.81E+01	-0.379633489	5
-0.05402723	2	9.47E-01	-0.113927433	2
-0.018934276	11	2.29E+00	0.533955129	11
0.598154694	14	4.83E-02	0.167362785	14
0.638361002	10	6.54E-02	1	10
1	5	1.16E-02	0.324978286	5
1	10	2.44E-03	0.893029615	10
2	14	6.00E-05	1	14
0.193121093	7	6.27E-01	-0.330707169	7

-0.876370353	7	5.04E+01	0.102750429	7
-0.538210633	2	2.74E+00	0.076726832	2
-0.641364848	1	2.43E+00	0.698622093	1
-0.788558259	3	7.07E+00	-2	3
-0.377685652	2	1.93E+00	-1	2
0.195966033	5	5.90E-01	0.522735944	5
-0.348656929	10	1.16E+01	-0.116695291	10
-0.123392229	6	1.98E+00	-0.18390518	6
-0.884315462	12	4.64E+02	0.138728746	12
0.497900148	8	1.64E-01	2	8
-0.594832642	14	1.57E+02	-0.834908676	14
1	5	2.83E-02	-0.004651668	5
2	9	1.14E-03	1	9
2	9	5.84E-05	2	9
1	4	5.31E-02	1	4
0.773562281	12	2.18E-02	2	12
0.17548397	16	9.03E-01	1	16
-0.191883153	35	3.85E+02	0.785906151	35
-0.078994919	7	1.91E+00	-0.262472851	7
-0.118134003	12	4.63E+00	-0.043425831	12
-0.168927614	2	1.22E+00	-0.114489439	2
0.694103533	20	9.33E-03	0.853282516	20
-0.546133725	3	3.79E+00	0.472888092	3
-0.076874293	10	2.79E+00	0.425771208	10
-0.209208556	13	9.59E+00	0.837332498	13
-0.147931151	3	1.36E+00	0.9768526	3
1	29	1.73E-07	2	29
-0.278947644	14	1.84E+01	-0.029465877	14
-0.200467156	15	1.29E+01	0.264918185	15
0.200126412	13	7.00E-01	0.563083671	13
-0.770818843	10	1.07E+02	-0.748782551	10
0.090664028	11	1.24E+00	-0.360234083	11
0.079673301	7	9.98E-01	0.361760584	7
0.757098403	38	1.73E-04	1	38
0.485290248	9	1.59E-01	1	9
0.946630943	3	8.13E-02	2	3
0.080856679	10	1.22E+00	0.443015626	10
-0.556986617	15	1.66E+02	1	15
0.029060627	2	7.89E-01	-0.039507568	2
-0.937047985	6	4.09E+01	-0.783426113	6
-1	6	9.20E+01	-0.703373698	6
0.524989429	14	7.92E-02	1	14
0.499687647	18	6.53E-02	1	18
0.061935212	1	6.81E-01	0.307213769	1
0.721858028	212	1.48E-17	1	212
-0.059375623	11	2.88E+00	0.412593041	11
-0.021929621	2	8.83E-01	0	2

-0.093989537	7	2.04E+00	-0.077152079	7
0.662797013	15	2.67E-02	2	15
0.875496848	6	4.82E-02	0.47619268	6
1	5	1.00E-02	0.478422826	5
0.334757986	30	1.83E-01	0.608431834	30
0.251022499	9	4.98E-01	0.148937164	9
-0.54167297	13	8.04E+01	-0.607606388	13
1	98	1.03E-19	2	98
-0.166904358	5	1.98E+00	-0.161054307	5
0.29903675	28	2.98E-01	0.292112212	28
0.171909436	2	5.77E-01	0.041298901	2
-0.440317607	3	2.89E+00	0.658355494	3
0.36349379	46	6.74E-02	0.301902777	46
-0.017049923	6	1.33E+00	0.667825962	6
0.446661862	8	2.06E-01	0.90227587	8
-0.047515861	7	1.68E+00	0.828246368	7
0.005499734	8	1.49E+00	0.482827933	8
0.021661656	18	3.46E+00	-0.00587125	18
-0.241238921	49	1.17E+04	-0.359552931	49
-0.152388209	20	2.01E+01	-0.334790727	20
-0.01727996	2	8.74E-01	-0.028650105	2
0.954603541	79	1.41E-10	1	79
0.187633991	6	6.23E-01	0.063999992	6
-0.061280782	12	3.29E+00	0.613743237	12
-0.028730374	4	1.12E+00	-0.052584085	4
-0.134172871	3	1.31E+00	-0.098723113	3
0.190729268	10	6.86E-01	0.239720185	10
0.203777879	4	5.62E-01	0	4
0.02550248	9	1.49E+00	0.337752186	9
-1	2	1.41E+01	-0.614558853	2
-0.862858223	12	4.08E+02	0.489664099	12
0.073737253	8	1.10E+00	0.406922725	8
0.847748526	21	1.85E-03	0.812369842	21
-0.301190399	6	3.84E+00	0.08501277	6
0.315902348	8	3.71E-01	-0.014571346	8
-0.019440994	5	1.21E+00	-0.120253966	5
0.303357218	4	4.19E-01	-0.028205932	4
0.626157975	7	1.06E-01	0.613520092	7
-0.002896807	1	7.65E-01	0.1940914	1
0.020387745	5	1.06E+00	0.938407697	5
0.542103162	11	9.74E-02	1	11
1	3	4.91E-02	2	3
2	4	9.12E-04	3	4
0.614059875	10	7.43E-02	1	10
-0.089906837	4	1.34E+00	0.301093469	4
-0.143474056	5	1.83E+00	0.809046126	5
0.818509006	22	1.97E-03	1	22

-0.195792062	6	2.60E+00	-0.215406789	6
-0.02050523	1	7.90E-01	0	1
-0.139284559	14	7.14E+00	-0.770215316	14
0.127362888	91	5.93E+01	0.316845291	91
0.928724308	6	3.96E-02	2	6
0.6244499	5	1.41E-01	2	5
0.353938861	11	2.81E-01	0.804748416	11
0.464612226	10	1.63E-01	2	10
3	5	9.99E-05	3	5
3	3	3.97E-04	3	3
2	8	6.08E-05	3	8
0.721573267	5	1.02E-01	0.789021702	5
-0.435364389	1	1.67E+00	-0.842455449	1
-0.141751925	3	1.34E+00	0.567097972	3
1	29	7.74E-06	1	29
0.334196173	20	2.44E-01	0.066967643	20
-0.218098449	2	1.36E+00	-0.281902147	2
0.216169488	29	8.29E-01	0.584989162	29
0.304681935	9	3.83E-01	0.36429806	9
-0.798948887	13	4.16E+02	-0.291441827	13
2	54	7.03E-18	3	54
0.855507891	10	2.09E-02	1	10
-0.119599909	3	1.26E+00	0.035255036	3
-0.522935879	11	3.92E+01	-1	11
-0.631176491	12	1.01E+02	-2	12
-0.861755558	8	7.29E+01	0.606783088	8
-0.129955649	3	1.30E+00	-0.615653465	3
-0.313052063	13	1.86E+01	-0.63578478	13
-0.026028071	1	7.98E-01	0	1
-0.452655355	6	6.75E+00	-0.045047465	6
-0.498012962	9	1.91E+01	-1	9
-0.203562094	7	3.19E+00	-0.260612536	7
-0.462771368	10	2.12E+01	-0.498203828	10
0.606719666	8	1.01E-01	0.796539875	8
1	35	2.76E-07	1	35
0.682916129	34	1.08E-03	0.634663882	34
0.452057787	9	1.87E-01	-0.355381937	9
-0.387111477	13	2.99E+01	0.09534733	13
0.292741294	5	4.27E-01	-0.068687749	5
0.282703953	6	4.38E-01	0.402552001	6
-0.138906274	7	2.45E+00	0.789022148	7
0.321567789	46	1.49E-01	0.886259923	46
0.119772529	4	7.21E-01	0.326028808	4
0.777993049	3	1.25E-01	0.980109969	3
0.788127987	3	1.22E-01	0.911647921	3
0.088552951	7	9.63E-01	0.064726018	7
0.629144052	8	9.10E-02	0.469630593	8

0.311484785	12	3.50E-01	0.450104769	12
-0.690818871	9	4.87E+01	-1	9
-2	10	3.54E+04	-0.978116433	10
-0.161189504	17	1.34E+01	0.496150722	17
0.08423173	15	1.68E+00	-0.067544316	15
0.23211962	4	5.17E-01	0.224256943	4
1	8	7.35E-03	2	8
0.614766685	44	7.45E-04	1	44
0.413903513	25	8.84E-02	0.8346978	25
0.584991101	11	7.65E-02	0.901492606	11
0.228141946	8	5.50E-01	0.828686578	8
-0.125908138	10	3.61E+00	-0.879106411	10
-1	4	2.65E+01	-0.953708227	4
-0.825571116	9	9.39E+01	-0.814361999	9
0.534397753	17	5.43E-02	2	17
0.334030704	6	3.62E-01	1	6
0.330088742	5	3.77E-01	0.497874082	5
0.321700239	20	2.73E-01	0.664905357	20
0.458407927	12	1.45E-01	0.476692888	12
-0.314315159	9	7.80E+00	-0.013621116	9
1	54	3.23E-10	2	54
2	6	2.64E-03	3	6
0.894013818	7	3.54E-02	1	7
0.125456086	20	1.62E+00	0.37469993	20
-0.070815193	2	9.82E-01	0.667297521	2
-0.485223337	13	5.60E+01	-0.483137269	13
-0.648405204	11	7.94E+01	-0.258293605	11
0.550881077	12	8.30E-02	0.084725468	12
-2	8	5.15E+03	-1	8
-0.17149059	8	3.30E+00	0.309880939	8
0.579111557	13	6.20E-02	1	13
-0.27499608	1	1.25E+00	-2	1
-0.590697479	8	2.16E+01	-1	8
-0.433980251	6	6.30E+00	-0.484794876	6
0.00308056	12	2.24E+00	0.742997429	12
0.014472326	12	2.09E+00	0.007833503	12
0.110657344	10	1.04E+00	0.358929396	10
-0.239187165	6	3.05E+00	-0.356585503	6
0.055431687	8	1.19E+00	-1	8
0.167194304	17	9.96E-01	-0.386515514	17
0.47548093	6	2.14E-01	0.605562958	6
1	7	4.23E-03	1	7
-0.80145658	7	3.71E+01	-0.329684319	7
0.440886617	50	1.18E-02	0.515746668	50
2	2	1.15E-02	0.903877077	2
0.15147598	6	7.13E-01	0.294770538	6
-0.299422446	8	5.86E+00	0.987718225	8

1	10	7.57E-03	2	10
0.241705231	7	5.14E-01	0.733563928	7
1	12	4.46E-03	0.912490496	12
-0.06947034	1	8.63E-01	-5.77E-05	1
0.83750445	33	1.45E-04	1	33
1	14	6.12E-04	2	14
-0.302035063	24	1.85E+02	0.213324339	24
0.153010618	9	8.02E-01	0.043810446	9
1	5	3.03E-02	2	5
-0.207220407	18	2.31E+01	2	18
0.733247293	7	6.84E-02	0.663544375	7
0.870945511	2	1.25E-01	0.82132257	2
-0.035276164	7	1.60E+00	0.079216147	7
0.362744313	12	2.57E-01	0.997373813	12
-0.622181092	2	3.29E+00	0.233599696	2
-0.549289511	16	2.14E+02	0.003923942	16
-0.258428214	19	4.32E+01	0.468755354	19
0.262220376	23	4.68E-01	0.581636986	23
2	17	7.19E-06	3	17
1	9	7.60E-03	0.994246686	9
0.55705274	10	1.00E-01	1	10
0.344393669	9	3.16E-01	0.953586998	9
-0.065764965	7	1.81E+00	0.41577041	7
0.746721077	7	6.47E-02	0.348545787	7
0.52198538	20	4.44E-02	0.571855356	20
-0.066442143	9	2.33E+00	0.054608631	9
-0.782466078	18	2.75E+03	-0.879832906	18
-0.120004974	13	5.42E+00	1	13
-0.891346042	32	3.22E+06	-1	32
-0.213725814	29	1.79E+02	-0.081618343	29
0.205576464	27	9.08E-01	0.32223222	27
-0.085333275	9	2.56E+00	-0.320120768	9
-0.120417974	7	2.27E+00	0.189019581	7
-0.052648557	14	3.97E+00	-0.011096419	14
0.511115709	15	7.91E-02	0.5626696	15
0.043365641	11	1.62E+00	0.400188568	11
0.293852156	23	3.39E-01	0.102206781	23
-0.278647167	46	1.34E+04	-0.157303016	46
-0.698237067	16	6.56E+02	0.2009752	16
0.330365061	5	3.76E-01	0.449604408	5
0.357535427	80	2.14E-02	0.684809891	80
0.067260869	6	9.76E-01	-0.166692606	6
0.15988168	20	1.19E+00	1	20
0.086530847	10	1.19E+00	0.395883147	10
0.096633545	4	7.72E-01	-1	4
-0.873762578	7	4.99E+01	0.315188006	7
-0.099972514	4	1.38E+00	1	4

-0.602514858	5	8.48E+00	-0.432422244	5
-0.394027806	16	6.62E+01	0.199367461	16
-0.063948151	8	2.04E+00	-0.305854716	8
0.408775137	4	3.07E-01	0.143221106	4
0.421544676	25	8.12E-02	0.847582093	25
-0.14454415	6	2.15E+00	-0.346976168	6
2	43	8.59E-15	3	43
0.148036107	2	6.08E-01	2	2
-0.311950676	4	2.58E+00	1	4
-0.357860243	4	2.96E+00	0.370511732	4
-0.508670381	4	4.62E+00	-0.699803795	4
0.303514788	17	3.38E-01	1	17
-0.844871624	7	4.43E+01	-1	7
-2	4	9.32E+01	-1	4
-1	2	8.05E+00	-1	2
-0.259108708	12	1.08E+01	-0.141119866	12
-0.024386066	7	1.53E+00	0.025225819	7
0.132779436	5	7.28E-01	0.208593852	5
0.258064464	9	4.81E-01	0.410941723	9
0.278613682	14	4.21E-01	0.268340046	14
-0.251275568	6	3.19E+00	0.157598756	6
0.687375177	15	2.24E-02	1	15
0.891807154	6	4.54E-02	1	6
-0.353705746	5	3.69E+00	0.504224297	5
1	36	5.04E-07	2	36
0.292279085	8	4.12E-01	0.942137612	8
0.350713133	2	3.90E-01	0.064952134	2
0	2	8.41E-01	0	2
0.669131686	7	8.89E-02	1	7
0.709185748	19	9.65E-03	1	19
0.169113187	10	7.68E-01	1	10
0.406242517	11	2.09E-01	0.463242714	11
0.553985656	30	1.08E-02	0.857406278	30
0.36198049	6	3.26E-01	0.752864095	6
0.664660725	7	9.06E-02	2	7
0.582313305	6	1.44E-01	0.922768861	6
1	6	1.28E-02	1	6
0.014449644	2	8.15E-01	0.453805264	2
0.594658756	30	6.42E-03	0.661420144	30
0.379960867	8	2.78E-01	1	8
0.010227467	3	9.05E-01	0	3
-1	27	1.69E+08	-2	27
-0.399107973	20	1.89E+02	-0.265290716	20
0.126073	25	2.08E+00	0.635267666	25
0.624284746	18	2.32E-02	0.585874308	18
1	3	2.29E-02	1	3
-0.006476725	5	1.16E+00	-0.102699953	5

0.050704966	2	7.53E-01	-0.681503961	2
-1	17	3.51E+04	-0.492773498	17
-0.149974972	1	9.99E-01	-0.029133716	1
0.670879104	27	3.84E-03	1	27
0.701998032	7	7.77E-02	0.858617377	7
0.855402223	12	1.33E-02	2	12
-0.353177705	7	5.89E+00	0.366838485	7
0.327531835	15	2.94E-01	-0.204552767	15
-0.127012231	10	3.63E+00	-0.538245957	10
-0.545272082	4	5.15E+00	1	4
-0.007992812	2	8.56E-01	0.18669527	2
0.274916193	32	3.91E-01	0.703917593	32
-0.053896187	15	4.52E+00	1	15
-0.48558499	8	1.35E+01	-0.404159618	8
0.169811092	1	5.60E-01	0.541808378	1
1	49	7.85E-08	1	49
1	4	2.07E-02	2	4
-0.240547769	7	3.71E+00	-0.016517234	7
1	17	1.23E-03	1	17
-0.864094755	10	1.74E+02	-0.515833758	10
-1	24	1.99E+06	-1	24
-0.185715639	16	1.38E+01	-0.718361437	16
0.509937338	8	1.55E-01	-0.627288354	8
1	6	2.31E-02	0.358086797	6
0.531573823	68	2.83E-04	1	68
0.444082467	8	2.09E-01	-0.125509595	8
0.84270232	4	8.50E-02	2	4
0.468271552	18	8.47E-02	1	18
0.41850137	9	2.20E-01	0.649490882	9
-0.375928082	5	3.98E+00	-0.747327032	5
0.021095826	8	1.39E+00	-0.199150805	8
-0.422179053	7	7.82E+00	1	7
-0.431172265	6	6.23E+00	-0.245072925	6
0.587525027	31	6.21E-03	1	31
-0.753766981	3	6.47E+00	0.082009674	3
-0.27921332	5	2.88E+00	-0.04158075	5
0.522427455	13	8.91E-02	0.117618829	13
0.272704992	12	4.42E-01	0.565390849	12
0.876007018	19	2.27E-03	1	19
0.408688537	13	1.84E-01	0.56709879	13
-0.052627724	3	1.06E+00	0.133031283	3
-0.935950294	10	2.54E+02	-0.97712644	10
-0.408873006	11	2.06E+01	-0.693578718	11
0.039201666	2	7.72E-01	-0.000268608	2
-0.080915262	8	2.20E+00	0.288588971	8
-0.388623757	10	1.43E+01	0.567648969	10
-0.252157724	4	2.16E+00	-0.589563804	4

0.756137016	8	5.15E-02	2	8
0.505387209	32	1.68E-02	0.835964025	32
1	21	3.76E-05	2	21
1	17	5.91E-05	1	17
0.534321469	25	2.36E-02	1	25
-0.453146656	6	6.76E+00	-0.525059334	6
-0.592324648	20	1.09E+03	-0.553440292	20
-0.004479501	3	9.40E-01	-0.634159387	3
1	12	5.57E-03	0.883054201	12
0.353227574	6	3.37E-01	0.565636014	6
-0.093837804	22	1.55E+01	0.363626847	22
-0.058267695	28	2.27E+01	0.884383247	28
0.4766221	2	2.96E-01	-0.03890984	2
0.675246433	12	3.93E-02	0.806443985	12
0.026297928	17	3.04E+00	0.4702423	17
-0.824211228	6	2.69E+01	-2	6
-0.175127762	17	1.50E+01	-0.08453737	17
-0.482250499	9	1.77E+01	-0.142206591	9
-0.775390261	14	5.32E+02	-0.973902875	14
0.788204571	23	2.17E-03	1	23
1	8	1.04E-02	0.145027632	8
0.842812625	10	2.24E-02	1	10
-0.173066224	21	2.87E+01	-0.20239567	21
0.136208587	5	7.20E-01	-0.103021801	5
-0.953314965	12	7.03E+02	-1	12
-0.509399857	5	6.21E+00	-0.654210956	5
-0.040083395	9	2.05E+00	-1	9
1	15	1.30E-03	1	15
0.092955221	4	7.80E-01	0.398158464	4
-1	1	5.00E+00	-0.699391135	1
-0.89240124	7	5.38E+01	-1	7
-0.857974219	8	7.17E+01	-0.485782892	8
-0.582591985	8	2.08E+01	-0.472177284	8
-0.050380563	8	1.92E+00	-0.006217893	8
-0.115762524	7	2.23E+00	-0.187113895	7
-0.004454633	5	1.15E+00	-0.42789536	5
0.595728153	6	1.37E-01	0.304349353	6
-0.216388734	15	1.45E+01	0.135485204	15
0.073890724	11	1.36E+00	-0.123566648	11
0.324207685	1	4.23E-01	0.563543787	1
2	8	1.36E-03	1	8
0.677215058	5	1.18E-01	2	5
0.555562534	12	8.07E-02	0.038912241	12
0.320770148	21	2.69E-01	1	21
0.290115051	24	3.48E-01	0.314676125	24
-0.777347456	5	1.52E+01	-1	5
-0.580059924	18	5.12E+02	-0.418604452	18

1	12	3.89E-04	1	12
0.637131179	38	1.17E-03	0.814020392	38
-0.638608875	63	4.32E+09	-0.535300212	63
0.512819645	8	1.53E-01	0.096529683	8
-0.604585109	12	8.63E+01	0.13112812	12
0.622723855	10	7.10E-02	0.661626946	10
0.385919151	9	2.58E-01	1	9
0.064739776	1	6.77E-01	0.972283306	1
-0.022639272	4	1.10E+00	0.114200665	4
0.191337454	2	5.53E-01	0.283772674	2
-0.027025472	2	8.93E-01	0.087367784	2
-0.0023388	6	1.26E+00	0	6
-0.708729612	7	2.53E+01	0.014661191	7
1	17	4.00E-04	1	17
-0.419753733	23	4.96E+02	0.191061315	23
0.803467977	23	1.86E-03	1	23
0.297445019	10	3.92E-01	2	10
1	31	2.14E-05	1	31
-0.365217485	11	1.61E+01	-0.651214652	11
-0.923422476	4	1.57E+01	-1	4
-0.944351357	6	4.20E+01	-0.542908479	6
-0.117564554	5	1.68E+00	-0.289397088	5
-0.118863986	30	6.33E+01	0.251718782	30
0.128088877	9	9.06E-01	0.341283058	9
0.188199718	4	5.89E-01	0.706554252	4
0.032305697	3	8.55E-01	0.147282932	3
0.388920208	17	1.72E-01	1	17
-0.908972922	12	5.38E+02	-0.552082687	12
-0.404920201	9	1.21E+01	0.343143469	9
0.598365132	11	7.10E-02	0.517307488	11
-0.072901452	11	3.11E+00	0.198252615	11
0.912312963	5	5.40E-02	1	5
-0.006019535	9	1.74E+00	0.745485679	9
-0.168223259	6	2.34E+00	0.16280398	6
-0.206964103	19	2.76E+01	0.241688159	19
-0.698433913	7	2.43E+01	0.16934643	7
0.739551467	5	9.60E-02	1	5
0.929066491	30	8.62E-05	2	30
-0.039637124	13	3.24E+00	0.720007772	13
-0.760218745	3	6.58E+00	-0.862110677	3
0.361620954	6	3.26E-01	0.168862688	6
1	3	2.20E-02	2	3
-0.663253156	9	4.26E+01	-0.208989349	9
-2	4	9.73E+02	-2	4
-0.23058218	6	2.95E+00	-0.90990752	6
-0.300890074	5	3.10E+00	-0.597479047	5
-0.135025755	5	1.78E+00	-0.091173798	5

0.064179399	3	7.88E-01	0	3
0.271777358	6	4.56E-01	0.279787202	6
0.238612761	4	5.07E-01	-0.071243511	4
0.215849211	16	6.66E-01	0.879617201	16
1	17	2.53E-04	2	17
2	20	4.05E-06	2	20
0.708824529	4	1.26E-01	0.415415768	4
-1	4	2.29E+01	-0.88145982	4
-0.684600105	8	3.29E+01	-0.910451349	8
-0.446968544	3	2.94E+00	0.147018251	3
-0.980043177	4	1.86E+01	0.077748149	4
-1	5	3.41E+01	-2	5
-0.646348784	8	2.77E+01	-1	8
1	17	1.23E-03	2	17
-0.130229326	6	2.03E+00	-0.519530595	6
-0.77452003	10	1.09E+02	0.252048352	10
0.130095472	7	8.12E-01	1	7
-0.059621143	1	8.48E-01	-0.100276852	1
1	8	1.14E-02	0.930543872	8
0.483418125	6	2.07E-01	0.557237317	6
0.341651601	8	3.30E-01	1	8
-0.621762815	9	3.48E+01	0.787880776	9
0.48464373	11	1.35E-01	0.862978508	11
-0.203651657	27	1.11E+02	0.061389127	27
-0.007370181	12	2.38E+00	1	12
0.019723848	3	8.83E-01	-0.008145371	3
-0.177182517	6	2.42E+00	0.106516371	6
0.107846348	8	9.43E-01	0.061173189	8
0.359747342	16	2.25E-01	0.997443177	16
0.80214409	5	7.79E-02	2	5
1	10	3.72E-03	2	10
0.406528319	2	3.45E-01	1	2
2	21	1.71E-06	2	21
2	5	1.02E-03	3	5
-0.009452977	9	1.77E+00	-0.189714653	9
0.007106354	8	1.48E+00	0.119782916	8
-0.512223061	2	2.59E+00	-0.209375115	2
0.138842911	9	8.60E-01	-0.841252297	9
-0.436988088	2	2.19E+00	-0.075287238	2
-0.325710277	41	1.07E+04	0.168625909	41
0.36172798	6	3.26E-01	0.282885152	6
-0.737368163	6	1.95E+01	-0.657826591	6
0.556521703	1	2.78E-01	0.445305136	1
0.314069433	5	3.98E-01	0.634795624	5
0.490861501	12	1.19E-01	0.471729923	12
0.111457342	11	1.10E+00	0.930236378	11
-0.709711605	7	2.54E+01	-0.582522036	7

-0.604953489	4	6.14E+00	-0.699530635	4
-1	8	4.13E+02	-2	8
-0.494209468	6	7.88E+00	-0.136680377	6
2	16	1.40E-05	2	16
0.165978183	15	9.36E-01	0.555074385	15
1	11	5.18E-03	1	11
-0.015480231	3	9.67E-01	0.020037789	3
-0.088483884	1	8.94E-01	-0.061729167	1
-0.208547619	5	2.28E+00	0.153776379	5
0.079661066	4	8.11E-01	0.420248526	4
-0.154707737	5	1.90E+00	-0.282071334	5
-0.797775956	8	5.47E+01	-0.966885962	8
-0.381911237	6	5.19E+00	-0.257631327	6
0.005213319	6	1.23E+00	0.396284433	6
-0.898862252	12	5.07E+02	0.195877535	12
2	15	5.43E-05	1	15
0.208365315	9	6.13E-01	0.174305022	9
-0.031583485	2	9.01E-01	-0.034172794	2
-1	2	9.11E+00	-0.010177113	2
1	55	1.76E-10	2	55
0.719199223	11	3.59E-02	2	11
-0.201259567	3	1.56E+00	-0.048083114	3
0.124591981	8	8.75E-01	0.033050318	8
0.068180283	4	8.39E-01	-0.178091263	4
0.651811417	12	4.52E-02	0.1255089	12
-0.232244241	6	2.97E+00	-0.223143632	6
0.916623481	61	4.28E-08	1	61
2	25	4.76E-07	2	25
3	1	1.64E-03	2	1
-0.090288922	3	1.17E+00	2	3
-0.442348283	3	2.90E+00	0.259960867	3
0.241610663	7	5.14E-01	0.855599819	7
0.277515106	19	4.10E-01	0.677030818	19
-0.213750679	1	1.12E+00	-0.796797942	1
-0.03267361	3	1.01E+00	-0.283982881	3
0.085925735	17	1.90E+00	0.603497707	17
-0.375191185	10	1.34E+01	-0.657170995	10
0.010734371	6	1.20E+00	-0.712752117	6
2	19	1.00E-07	3	19
0.238866844	19	5.74E-01	0.693289832	19
0.767517834	37	1.78E-04	0.898937874	37
0.259163018	11	4.79E-01	0.672728955	11
0.83129408	4	8.79E-02	1	4
-0.094321853	11	3.51E+00	-0.21182855	11
0.043609248	12	1.75E+00	0.231478441	12
-0.348878667	3	2.28E+00	-0.637663513	3
-0.828655059	9	9.53E+01	-0.039678419	9

-1	12	1.04E+04	-0.886541133	12
-0.395918164	18	1.11E+02	0.469577449	18
0.608445875	53	2.53E-04	0.953364281	53
1	8	3.46E-03	1	8
-0.053595824	9	2.19E+00	-0.040453716	9
-0.014952649	7	1.47E+00	0.519510433	7
-0.532471312	7	1.23E+01	-0.010383757	7
-1	10	1.29E+03	-0.688725995	10
-0.315041797	8	6.28E+00	-0.260175966	8
-0.837500944	9	9.95E+01	-1	9
0.007664162	7	1.34E+00	-0.273030304	7
0.135355048	4	6.88E-01	-0.053638044	4
-0.686032195	19	1.77E+03	-0.764329931	19
-0.347164322	10	1.15E+01	-0.468084058	10
-0.072206779	2	9.85E-01	0.189332673	2
-0.652033116	13	1.63E+02	-0.979684163	13
0.160303076	4	6.39E-01	-0.90406801	4
0.594175683	8	1.06E-01	0.358169879	8
0.099325031	3	7.20E-01	0.015912773	3
-0.142762601	17	1.16E+01	0.207805769	17
-0.417588216	6	5.92E+00	0.172108512	6
-0.714790009	10	7.95E+01	-0.283806984	10
-0.563620037	9	2.62E+01	-0.826190165	9
0.508726915	11	1.18E-01	0.28641313	11
0.636685008	8	8.80E-02	0.349006869	8
0.241598093	5	5.06E-01	0.188388968	5
0.949535213	4	6.20E-02	0.288610884	4
0.458333026	2	3.08E-01	0.513287246	2
0.31819155	8	3.67E-01	0.287718459	8
0.127432219	13	1.11E+00	0.763356884	13
0.668268723	7	8.92E-02	2	7
-0.017611616	3	9.72E-01	2	3
-0.416337543	5	4.55E+00	0.158324949	5
-0.58473105	14	1.46E+02	-1	14
1	13	1.31E-03	2	13
0.743182018	29	1.14E-03	1	29
0.117699293	6	8.09E-01	-0.185628398	6
1	28	2.65E-07	2	28
0.846711169	18	3.66E-03	0.761954268	18
0.167060181	10	7.77E-01	-0.315766495	10
-0.485575182	3	3.24E+00	-0.047249002	3
-1	3	1.81E+01	-2	3
-0.703745089	9	5.19E+01	-0.176340097	9
-0.121095248	7	2.27E+00	-0.224810568	7
-0.39836645	5	4.29E+00	-0.027621792	5
-0.124359091	15	7.48E+00	0.082755567	15
-0.146227979	4	1.58E+00	-0.404447129	4

-0.95382414	5	2.74E+01	0.005519183	5
0.345634573	15	2.59E-01	0.66076872	15
-0.26633581	13	1.38E+01	0.729009979	13
-0.991539224	9	2.11E+02	-0.664796922	9
-0.158918016	6	2.26E+00	1	6
0.581967833	24	1.58E-02	1	24
-0.342359441	2	1.78E+00	0.49399677	2
0.011645255	3	9.02E-01	0.106629156	3
0.317231794	20	2.84E-01	1	20
-0.006442814	2	8.53E-01	-0.06646282	2
0.411673583	5	2.87E-01	0.656181255	5
0.273168339	4	4.58E-01	0.688542682	4
-0.422223714	5	4.64E+00	2	5
0.000841636	9	1.68E+00	0.475223193	9
0.228370151	14	5.91E-01	1	14
-0.686924512	1	2.64E+00	-0.001516242	1
0.121673271	13	1.16E+00	-0.176662054	13
2	5	2.32E-03	0.959058081	5
0.376712328	2	3.68E-01	-0.004981083	2
-0.966505016	5	2.86E+01	-0.829775508	5
0.776299193	9	3.86E-02	1	9
-0.135896396	10	3.81E+00	0.381182106	10
0.762815638	3	1.30E-01	2	3
0.871976833	4	7.80E-02	2	4
2	16	2.74E-07	3	16
-0.170661161	24	4.59E+01	-0.211019093	24
1	26	4.64E-05	2	26
2	5	3.35E-03	2	5
0.372224101	7	3.01E-01	0.963522786	7
0.762966005	3	1.30E-01	1	3
1	25	9.33E-06	1	25
0.421911797	24	8.61E-02	2	24
2	13	4.27E-07	3	13
-1	11	8.63E+02	-0.202977389	11
1	6	1.04E-02	2	6
2	3	3.78E-03	2	3
0.776039804	30	6.19E-04	2	30
-0.302614094	6	3.86E+00	1	6
0.6133242	16	3.33E-02	1	16
0.897723581	15	4.97E-03	0.87211588	15
-0.684701606	5	1.12E+01	-0.121560914	5
0.459115292	57	4.76E-03	0.539881673	57
0.852859227	12	1.35E-02	1	12
2	9	1.20E-05	3	9
0.127251071	18	1.44E+00	0.833465934	18
0.274729005	10	4.41E-01	1	10
-1	10	3.16E+03	-0.352901151	10

-0.596158393	14	1.58E+02	-0.908157377	14
0.593159241	9	9.42E-02	0.936657375	9
-0.556548079	7	1.36E+01	0.852172382	7
-0.004339073	19	4.75E+00	0.102967856	19
-0.063244172	19	7.92E+00	0.095580735	19
-0.198989258	6	2.63E+00	-0.20387574	6
-0.302399148	11	1.13E+01	-1	11
-0.435556624	13	4.08E+01	-1	13
0.698680377	25	3.88E-03	1	25
0.606015252	10	7.76E-02	1	10
-0.287619197	7	4.50E+00	0.220853725	7
0.156737373	32	1.96E+00	0.732861741	32
0.514073858	6	1.85E-01	0.826232933	6
1	10	1.51E-03	1	10
0.235853301	15	5.68E-01	0.542014273	15
-0.271984551	1	1.25E+00	1	1
-0.023097217	4	1.10E+00	0.039025742	4
0.386790568	7	2.83E-01	-0.015767045	7
0.45325146	15	1.20E-01	0.637669233	15
-0.478649823	9	1.74E+01	-0.930663166	9
0.194195821	6	6.08E-01	-0.320339088	6
-0.123707833	5	1.71E+00	0.005325154	5
-0.266329328	15	2.07E+01	0.022209727	15
-0.609801258	4	6.23E+00	-0.189575958	4
0.285660522	12	4.09E-01	0.313731582	12
0.848987303	18	3.59E-03	1	18
-0.135818829	9	3.27E+00	1	9
-0.223142456	4	1.99E+00	-0.454585655	4
-0.011273029	4	1.06E+00	-0.757700838	4
0.326910392	4	3.91E-01	-0.019934063	4
0.712152474	12	3.15E-02	0.970275586	12
0.004621522	20	4.85E+00	0.629673678	20
0.246018475	21	5.46E-01	0.48125789	21
0.659275568	31	2.40E-03	2	31
2	21	2.58E-08	3	21
1	29	6.71E-07	2	29
1	21	3.58E-05	2	21
-0.004787623	3	9.41E-01	-0.019154191	3
-0.167157792	2	1.21E+00	-0.637918025	2
0.326556242	9	3.45E-01	0.240738242	9
-1	15	2.52E+04	-0.452531275	15
-0.569880363	8	1.97E+01	1	8
0.467960496	9	1.73E-01	-0.039262565	9
-0.364063684	13	2.58E+01	-0.303917736	13
0.256553764	14	4.89E-01	0.375611571	14
2	5	5.52E-03	2	5
1	16	8.47E-04	1	16

1	4	2.12E-02	2	4
1	16	1.50E-03	2	16
-0.36461665	14	3.29E+01	-0.490984693	14
0.340232064	3	3.87E-01	0.06350352	3
-0.779361327	11	1.66E+02	0.034088197	11
0.042448309	2	7.66E-01	0.198258429	2
-0.899411236	8	8.63E+01	-1	8
-0.100688572	6	1.82E+00	-0.089224475	6
0.182223238	6	6.36E-01	-0.252711817	6
0.209175644	8	5.98E-01	0.581843784	8
-1	15	3.78E+04	-0.674234261	15
-0.431013419	2	2.16E+00	-0.375801397	2
1	18	1.42E-04	2	18
-0.299491165	4	2.49E+00	-0.3399888	4
0.79749752	11	2.31E-02	0.643218898	11
0.734637583	24	3.13E-03	1	24
1	12	2.40E-03	2	12
1	15	2.37E-03	0.717566369	15
1	6	2.72E-02	0.681487481	6
0.357747813	15	2.37E-01	0.217715287	15
0.054741481	6	1.02E+00	0.08056934	6
0.873115704	9	2.41E-02	1	9
1	6	1.53E-02	0.697712384	6
0.244820744	5	5.01E-01	-0.031890883	5
-0.610451365	9	3.30E+01	0.397852803	9
0.402054443	7	2.66E-01	1	7
-0.628980638	15	2.77E+02	0.313078659	15
-0.486315236	11	3.19E+01	-0.47982637	11
0.240595494	9	5.24E-01	1	9
-0.851160252	4	1.27E+01	-1	4
0.245209984	9	5.12E-01	-0.068509911	9
0.076874999	4	8.18E-01	-0.089851095	4
-0.153858526	5	1.90E+00	-0.445748753	5
0.081725756	24	3.17E+00	0.354074005	24
-0.768535943	5	1.48E+01	0.03387813	5
0.609539788	12	5.83E-02	0.293302335	12
-0.106658004	7	2.14E+00	-0.128359166	7
-1	21	9.01E+04	-1	21
-0.356805623	3	2.33E+00	-1	3
-1	18	1.22E+05	-1	18
-0.749201696	17	1.42E+03	-0.978232264	17
-0.227284449	6	2.92E+00	0.151073115	6
0.227452141	4	5.24E-01	-0.347793761	4
0.765545741	12	2.28E-02	0.753610816	12
0.273925625	9	4.45E-01	0.801558674	9
-1	20	7.94E+04	-0.682731758	20
-0.186562272	14	9.84E+00	0.133965764	14

1	50	5.55E-12	3	50
-0.606248731	18	6.36E+02	0.548301013	18
0.130351604	16	1.27E+00	0.058361432	16
3	5	2.60E-04	4	5
2	4	5.10E-03	2	4
0.662802583	9	6.71E-02	0.314954765	9
0.465637081	5	2.40E-01	0.27079561	5
-1	6	9.46E+01	-2	6
2	7	7.55E-04	2	7
0.180894082	7	6.59E-01	0.3718147	7
0.072402348	3	7.71E-01	0.994406694	3
-0.032222233	11	2.47E+00	-0.765342034	11
0.99044355	3	7.26E-02	1	3
0.773863113	9	3.91E-02	1	9
0.853667517	5	6.56E-02	0.461959744	5
0.395595809	5	3.03E-01	1	5
0.332156906	1	4.17E-01	0.359702087	1
0.779735461	5	8.40E-02	0.7522449	5
-0.147183576	9	3.46E+00	0.465726183	9
0.362420794	4	3.52E-01	0.745713108	4
0.279957784	4	4.49E-01	0.390041582	4
2	6	1.28E-04	2	6
1	8	2.17E-03	1	8
-0.301077467	5	3.10E+00	0.108514773	5
0.670070989	22	8.48E-03	0.717551501	22
2	6	4.23E-03	1	6
0.867460823	9	2.48E-02	0.996950887	9
-0.227429618	10	6.16E+00	-0.301613243	10
-0.829258569	12	3.33E+02	-1	12
-0.046210375	7	1.67E+00	0.038696027	7
0.174206155	3	5.93E-01	0.22823735	3
2	42	6.62E-11	3	42
2	32	3.93E-11	3	32
0.173296128	17	9.49E-01	1	17
-0.360048303	4	2.98E+00	0.880541735	4
0.455579925	20	8.11E-02	0.031183242	20
-0.048352953	2	9.35E-01	-0.409309325	2
0.208899127	4	5.54E-01	-0.466746153	4
-0.190332456	5	2.14E+00	-0.1437662	5
-0.039710778	7	1.63E+00	0.07627931	7
1	93	5.10E-17	2	93
-0.184671749	13	8.20E+00	-0.349065997	13
0.240582079	18	5.61E-01	0.150274072	18
0.753494024	23	3.09E-03	2	23
2	15	7.93E-06	2	15
-0.693201069	11	1.02E+02	-0.487280782	11
-1	11	3.57E+03	-0.700461025	11

0.359286944	36	1.06E-01	1	36
0.39536457	4	3.19E-01	0.655991017	4
0.748907331	7	6.41E-02	2	7
2	31	3.44E-10	2	31
0.045924106	13	1.88E+00	0.10514952	13
-1	3	2.90E+01	-0.748417979	3
-0.051838162	7	1.71E+00	0.144351429	7
-1	3	2.07E+01	1	3
-0.659627421	3	5.08E+00	0.158528896	3
2	13	4.67E-07	2	13
-0.698807982	14	3.17E+02	-0.440885593	14
0.080629345	13	1.50E+00	0.050776143	13
1	20	2.09E-05	2	20
-0.045604853	2	9.30E-01	-0.074019904	2
-0.830882319	20	9.46E+03	-0.390591001	20
-0.543994227	5	6.97E+00	-0.336170397	5
1	13	6.65E-04	2	13
0.737034743	15	1.57E-02	0.277677172	15
0.179097932	14	8.26E-01	1	14
0.454656362	11	1.59E-01	0.973038685	11
-0.900627537	3	9.44E+00	-0.842667809	3
0.033444588	3	8.53E-01	-0.620896976	3
-0.024595903	7	1.53E+00	0.072866941	7
-0.583207979	22	1.91E+03	0.130605359	22
-0.260645193	6	3.30E+00	-0.817558075	6
-0.065328811	3	1.10E+00	0.04873078	3
0.5926989	14	5.01E-02	0.836778456	14
1	25	7.29E-07	2	25
0.236589052	21	5.97E-01	0.725635558	21
0.427471145	100	6.40E-04	1	100
0.591643645	25	1.26E-02	0.701591921	25
0.336724764	6	3.58E-01	2	6
0.352409215	7	3.26E-01	2	7
-0.08132573	29	3.42E+01	0.065594789	29
-1	26	3.21E+07	-1	26
1	7	7.49E-03	2	7
-0.853333227	13	5.90E+02	-0.45474473	13
-0.123889653	7	2.30E+00	-0.409091849	7
-0.326591637	11	1.30E+01	0.285137413	11
0.05615198	11	1.50E+00	0.797327519	11
0.449251178	14	1.32E-01	0.681483023	14
-0.295710208	27	3.27E+02	0.433073034	27
-0.163210931	13	7.14E+00	0.819609068	13
0.328372545	4	3.89E-01	0.021147885	4
-0.308431932	12	1.46E+01	-0.617182235	12
-0.649951858	2	3.50E+00	-0.442399121	2
-0.437858561	6	6.39E+00	-0.690929901	6

0.604759635	2	2.23E-01	0.283773548	2
0.819861268	5	7.35E-02	0.698434403	5
0.473303161	10	1.56E-01	1	10
2	11	8.53E-05	2	11
2	1	9.54E-03	2	1
-0.119009726	3	1.26E+00	0.030980609	3
0.649022208	8	8.33E-02	-0.069006775	8
0.897417659	10	1.68E-02	2	10
0.072962273	3	7.70E-01	0.326142518	3
0.232494689	25	6.47E-01	0.794510006	25
0.601424064	4	1.73E-01	0.396989042	4
0.897307876	16	3.91E-03	1	16
1	17	6.65E-04	1	17
-0.048114352	21	8.80E+00	0.174497293	21
0.090617956	3	7.36E-01	-0.138074576	3
-0.134021005	21	1.98E+01	1	21
1	10	7.37E-03	1	10
-0.1197171	4	1.46E+00	0.057820492	4
-0.948674733	15	2.73E+03	-0.737795741	15
-0.987544993	4	1.90E+01	-0.290815826	4
-0.282191438	19	5.31E+01	0.494973916	19
0.843352506	22	1.54E-03	0.97279695	22
-2	13	4.57E+04	-1	13
0.69136406	6	9.57E-02	-0.546173129	6
0.175116835	10	7.44E-01	0.668971765	10
0.244467163	23	5.61E-01	0.158157079	23
0.042060443	5	9.86E-01	-0.080669127	5
0.602482261	14	4.69E-02	0.707464447	14
2	17	1.43E-05	2	17
1	10	3.13E-03	1	10
-0.015676691	6	1.33E+00	0.254146226	6
1	23	5.56E-06	2	23
0.873432193	2	1.24E-01	1	2
-0.594181342	16	3.00E+02	0.234617402	16
0.948787727	6	3.67E-02	-0.031864996	6
0.369835396	19	1.84E-01	0.344108762	19
-0.29857945	14	2.10E+01	0.18080689	14
-0.842727895	5	1.89E+01	0	5
0.474323783	23	5.36E-02	0.348380853	23
-0.537126188	9	2.31E+01	0.132330199	9
0.376718328	37	7.81E-02	0.386781407	37
1	42	1.74E-08	2	42
0.424086084	7	2.43E-01	-0.39032909	7
0.947410116	5	4.80E-02	0.039591403	5
0.983270122	11	8.12E-03	0.478324549	11
0.855670145	2	1.29E-01	2	2
0.613854212	5	1.46E-01	0.487191053	5

0.740052985	10	3.84E-02	0.289731123	10
2	22	2.14E-10	3	22
-1	13	1.41E+04	-1	13
-0.731901774	8	4.07E+01	-1	8
-0.607340517	4	6.18E+00	-1	4
0.323541428	39	1.70E-01	0.838068815	39
0.673860766	6	1.02E-01	1	6
-0.699584432	18	1.38E+03	-0.513398363	18
-0.310558658	15	2.84E+01	0.636918261	15
-0.008977906	25	9.18E+00	-0.124943121	25
0.578215329	2	2.37E-01	-0.232001953	2
0.246711583	23	5.48E-01	-0.229536171	23
-0.407307763	10	1.58E+01	-1	10
-2	14	2.70E+05	-2	14
0.332193035	7	3.54E-01	0.216520351	7
0.673767063	17	1.80E-02	2	17
0.688667198	4	1.34E-01	1	4
1	6	1.04E-02	2	6
0.602198514	3	1.97E-01	-0.209128727	3
0.210828327	7	5.83E-01	1	7
-0.355722889	5	3.72E+00	0.66462256	5
-0.374984651	11	1.70E+01	0.557282445	11
-0.089848202	6	1.75E+00	0.084163297	6
-0.164811628	7	2.72E+00	-0.461264467	7
0.000538575	3	9.28E-01	-0.611031118	3
-0.105548704	12	4.30E+00	0.82234992	12
-1	3	2.24E+01	0.055168809	3
0.442149384	8	2.11E-01	0.63074951	8
1	26	1.11E-05	1	26
0.544444352	6	1.65E-01	0.375621044	6
-2	6	3.38E+03	-2	6
-1	6	8.46E+01	-0.759391313	6
0.122403158	76	3.21E+01	0.510385205	76
0.370949846	39	7.85E-02	0.346955017	39
-0.164173293	5	1.96E+00	0.085169064	5
0.175731019	18	9.62E-01	0.216948258	18
1	23	5.75E-06	2	23
0.248075277	12	5.12E-01	0.883299949	12
2	9	4.02E-05	3	9
-0.911763109	9	1.43E+02	-0.894854383	9
0.04346578	4	9.03E-01	-6.55E-06	4
-1	5	4.59E+01	-0.286540454	5
-0.623886459	37	4.53E+05	-0.790688927	37
-0.849274713	37	1.51E+07	-0.717496069	37
-0.045166798	1	8.26E-01	-0.035070856	1
0.557763023	82	2.82E-05	1	82
-0.16855742	3	1.43E+00	-0.117812194	3

-0.694847812	4	8.01E+00	-0.539147648	4
0.048077257	10	1.45E+00	-0.189964669	10
0.619097968	29	5.37E-03	0.876070912	29
0.950976948	23	4.11E-04	1	23
0.70416884	12	3.30E-02	0.890380244	12
0.88666356	5	5.88E-02	0.841773602	5
-0.014724471	25	9.77E+00	0.166256585	25
-0.153488716	3	1.38E+00	0.201675709	3
-0.20370719	5	2.24E+00	-0.401592339	5
-0.301919482	6	3.85E+00	-0.644379058	6
-0.005756161	4	1.04E+00	-0.014590512	4
0.310365063	7	3.87E-01	1	7
0.739929471	4	1.15E-01	1	4
-0.047727968	4	1.18E+00	0.059933293	4
0.161451485	11	8.31E-01	0.695553285	11
-0.655106397	22	3.87E+03	-0.004298152	22
0.642258407	40	8.09E-04	1	40
2	16	1.04E-05	2	16
1	12	2.26E-03	1	12
-0.122942368	10	3.56E+00	0.884255272	10
0.426384532	4	2.91E-01	0.201279851	4
1	30	9.02E-08	2	30
-0.359646293	7	6.05E+00	-0.752234297	7
-1	6	7.10E+01	-0.0422149	6
-0.229839646	32	3.85E+02	-0.017534466	32
-0.235428208	9	5.31E+00	-0.330987738	9
-0.500078687	3	3.37E+00	0.578026325	3
-0.815461171	8	5.92E+01	-0.176261503	8
0.225804051	10	5.71E-01	0.052717733	10
0.397297914	17	1.61E-01	0.472345639	17
1	17	7.77E-04	1	17
1	13	1.34E-03	1	13
0.207254211	18	7.40E-01	0.411826201	18
0.255688312	25	5.02E-01	0.433288606	25
-0.297136221	6	3.78E+00	-0.565400057	6
0.993375773	49	1.84E-07	1	49
2	12	1.33E-06	3	12
1	15	1.04E-03	0.763776961	15
0.925319731	8	2.41E-02	1	8
-0.07618954	5	1.46E+00	-0.010161327	5
-2	11	8.89E+04	-0.462926396	11
1	2	4.42E-02	1	2
0.605485598	8	1.01E-01	1	8
0.128395738	12	1.05E+00	0.862725577	12
0.292951063	31	3.10E-01	0.811575135	31
0.306528859	64	1.45E-01	0.631962038	64
2	4	1.03E-02	2	4

0.035129836	7	1.20E+00	0.451836143	7
0.09179649	24	2.85E+00	0.244726987	24
0.8273469	11	1.95E-02	1	11
0.015212169	5	1.08E+00	-0.133229919	5
-1	4	2.68E+01	-2	4
-1	12	3.66E+03	-0.651379812	12
-0.195237707	16	1.48E+01	0.361599511	16
0.702694859	6	9.17E-02	0.014348302	6
-0.367510121	21	1.80E+02	-0.038490349	21
-0.65977029	6	1.46E+01	-0.313322212	6
-0.898202118	4	1.46E+01	-1	4
0.057581438	3	8.01E-01	0	3
0.018879051	2	8.07E-01	0	2
-0.301541647	6	3.85E+00	-0.111091476	6
-0.779164386	11	1.66E+02	-0.585166569	11
-2	7	4.44E+03	-0.805410439	7
-1	16	2.46E+04	-1	16
0.030380225	17	2.95E+00	0.601180394	17
0.235049854	7	5.28E-01	0.377221856	7
0.65222553	8	8.21E-02	0.241724662	8
-1	7	3.67E+02	-1	7
-0.200529965	12	7.61E+00	-0.147850216	12
-0.359437869	33	2.86E+03	0.070613788	33
-0.992055086	4	1.93E+01	0.516323846	4
-0.197928924	8	3.71E+00	-0.141507836	8
0.044335105	4	9.01E-01	-0.20245656	4
2	6	2.80E-03	2	6
0.800928622	7	5.18E-02	1	7
-0.179270852	7	2.89E+00	0.003997251	7
-0.465938763	5	5.37E+00	-0.037868412	5
0.488341746	81	2.99E-04	0.741524463	81
0.277702689	6	4.46E-01	0.212431621	6
2	29	3.70E-08	2	29
1	17	5.87E-04	2	17
0.817728251	5	7.40E-02	1	5
1	6	7.93E-03	2	6
0.784394005	13	1.67E-02	0.853874889	13
0.267024902	9	4.61E-01	1	9
0.86441697	13	1.00E-02	0.378356408	13
1	11	1.44E-03	2	11
0.778125732	14	1.43E-02	1	14
-0.042442932	1	8.22E-01	-4.87E-05	1
1	5	3.60E-02	0.407084761	5
0.658177303	4	1.47E-01	0.713048259	4
0.225887095	10	5.70E-01	0.928066595	10
0.458588217	10	1.68E-01	0.523308954	10
-0.789866858	5	1.58E+01	-0.8670701	5

-0.915730602	2	6.26E+00	-0.635258159	2
-0.629758033	4	6.61E+00	-0.326497734	4
-1	66	5.05E+18	-1	66
-0.258561959	4	2.20E+00	-0.221300955	4
0.926623419	8	2.40E-02	-0.227795797	8
0.617604508	11	6.37E-02	0.730227563	11
0.552496102	15	5.88E-02	-0.047093124	15
0.048712643	6	1.05E+00	2	6
0.150556816	20	1.29E+00	0.180209455	20
0.439393876	5	2.62E-01	1	5
-0.569931196	6	1.04E+01	-0.513770334	6
0.215400898	3	5.34E-01	-0.631383004	3
-0.643437746	7	1.94E+01	-0.434711935	7
0.72499012	10	4.15E-02	0.533781022	10
0.442667488	7	2.25E-01	0.748040733	7
0.483750718	27	3.46E-02	0.211836298	27
0.308066935	9	3.77E-01	0.342804531	9
0.38305097	7	2.88E-01	-0.030775996	7
-0.234449427	4	2.05E+00	0.154405576	4
-0.295575959	1	1.30E+00	1	1
0.890438828	9	2.22E-02	0.329331538	9
0.370983427	6	3.15E-01	-0.209335166	6
0.685298332	7	8.32E-02	-0.515359993	7
0.635885471	19	1.82E-02	0.203092508	19
0.264737271	9	4.66E-01	0.642325205	9
0.325508742	45	1.42E-01	0.26452439	45
1	8	1.39E-02	1	8
1	5	3.97E-02	1	5
-0.004807481	4	1.04E+00	1	4
0.055651719	3	8.05E-01	0.315788645	3
0.488983975	8	1.71E-01	-0.438647688	8
-0.626975985	7	1.81E+01	-0.644796863	7
-0.030063349	4	1.12E+00	-0.01537461	4
0.266432456	15	4.56E-01	0.43515859	15
0.272487424	12	4.43E-01	0.630092843	12
0.034057916	7	1.20E+00	0.684429097	7
0.200071035	14	7.16E-01	-0.024068519	14
-0.264062435	7	4.09E+00	-0.490964979	7
-0.438087045	3	2.87E+00	-0.038178791	3
-0.435710272	5	4.86E+00	0.443153634	5
2	17	9.52E-09	3	17
-0.187102996	6	2.51E+00	-0.179186232	6
-0.274313729	4	2.31E+00	-0.272325459	4
-0.136684185	11	4.45E+00	-0.234401086	11
0.203888322	15	7.13E-01	0.432074478	15
0.853274491	21	1.76E-03	2	21
-0.493202139	14	7.86E+01	0.23988728	14

0.378557193	12	2.34E-01	1	12
0.205250071	12	6.63E-01	0.594544115	12
-0.175365894	12	6.54E+00	0.26573777	12
-0.27863245	10	8.06E+00	0.540054314	10
0.991145229	5	4.15E-02	1	5
1	5	3.09E-02	2	5
0.167723247	16	9.58E-01	0.639265383	16
0.686108392	9	5.99E-02	2	9
-1	11	6.30E+03	-2	11
-0.903159699	4	1.48E+01	-0.495465538	4
-0.802319899	3	7.33E+00	-0.131699962	3
0.976859329	53	8.60E-08	2	53
-0.724951444	1	2.83E+00	-0.077849487	1
-0.608475517	1	2.29E+00	-0.055179976	1
-0.223584688	4	1.99E+00	-0.003536016	4
0.457689024	16	1.08E-01	0.770313222	16
0.449444475	29	4.48E-02	0.927210559	29
0.469054208	6	2.19E-01	-0.013818129	6
0.130143505	2	6.32E-01	-0.347046541	2
-0.361169111	6	4.80E+00	-0.53632834	6
-0.777720548	15	8.04E+02	-1	15
0.052652857	45	2.29E+01	0.369623044	45
0.566575521	7	1.35E-01	-0.299369396	7
-0.174701603	9	3.95E+00	-0.433864441	9
0.902101436	15	4.81E-03	1	15
0.921206324	46	1.68E-06	0.784787744	46
-0.797578842	6	2.44E+01	-1	6
0.273239831	14	4.36E-01	0.475892251	14
1	7	2.02E-02	2	7
0.325872454	25	2.32E-01	0.419718606	25
0.043687906	1	7.04E-01	0	1
0.043687906	1	7.04E-01	0	1
-0.420010514	5	4.61E+00	0	5
-0.067185398	15	4.97E+00	0.02951327	15
0.213907665	10	6.07E-01	0.278759921	10
0.427994079	7	2.39E-01	0.54219917	7
-0.555339886	10	3.44E+01	-0.399850987	10
-0.889493771	7	5.32E+01	-1	7
0.044373331	14	2.06E+00	0.469355435	14
0.385352814	3	3.45E-01	0.31989029	3
-0.079444778	9	2.49E+00	0.353339553	9
-0.721056224	4	8.65E+00	-0.901521627	4
0.275542184	10	4.39E-01	0.689572567	10
0.117372294	5	7.66E-01	0.765018735	5
1	60	1.48E-10	2	60
-0.488339738	15	1.01E+02	-0.332572627	15
-0.293185806	16	3.10E+01	0.623804679	16

0.053974096	7	1.11E+00	0.875018007	7
-0.941713438	11	4.14E+02	-0.43927255	11
-0.356092251	6	4.71E+00	-0.933355341	6
0.030338941	1	7.21E-01	-3.71E-05	1
0.161113121	19	1.13E+00	0.51921666	19
0.916896208	28	1.66E-04	2	28
-0.417625295	4	3.53E+00	0.760703542	4
0.294459823	9	4.03E-01	0.165510667	9
0.982890138	8	1.86E-02	1	8
-0.247519733	16	2.19E+01	0.267664066	16
-0.169507586	16	1.22E+01	-0.215107248	16
0.136497196	21	1.54E+00	0.493103382	21
-0.099995011	1	9.13E-01	0.034159033	1
-0.099995011	1	9.13E-01	0.034159033	1
-0.024778777	10	2.13E+00	0.064132033	10
2	7	2.87E-03	2	7
1	19	1.25E-05	1	19
-0.063098262	3	1.09E+00	-0.412868083	3
-0.183831088	6	2.48E+00	-0.611261798	6
0.578726565	7	1.29E-01	0.016749122	7
0.966468083	4	5.90E-02	0.295690327	4
0.134615624	18	1.35E+00	0.543855325	18
1	13	1.00E-03	2	13
1	3	4.05E-02	2	3
0.135416115	6	7.57E-01	0.274680612	6
-0.02209165	1	7.93E-01	-5.07E-05	1
1	10	1.80E-03	1	10
0.861600482	19	2.57E-03	1	19
2	17	3.38E-06	3	17
0.842409555	13	1.15E-02	1	13
0.299897414	6	4.11E-01	1	6
-0.418448017	4	3.54E+00	-0.25216274	4
-1	11	1.53E+03	-2	11
0.714410863	6	8.78E-02	0.707252646	6
0.397664889	9	2.44E-01	1	9
0.385886749	36	7.10E-02	0.779053735	36
-0.031571319	19	6.02E+00	0.646238578	19
-0.662121033	9	4.24E+01	-0.381935299	9
-0.730361986	3	6.09E+00	-1	3
-1	12	1.10E+04	-0.968613422	12
0.815924478	4	9.20E-02	2	4
0.670732013	2	1.93E-01	0.602821441	2
0.421650747	16	1.41E-01	1	16
3	24	1.12E-13	3	24
1	27	2.33E-06	1	27
0.48871806	5	2.22E-01	0.686764506	5
0.534534847	5	1.90E-01	0.363955229	5

0.433999243	88	1.09E-03	0.491348656	88
-1	28	2.40E+06	-1	28
-0.145116222	4	1.58E+00	-0.4151007	4
0.076515833	12	1.44E+00	0.134626408	12
0.12497095	7	8.29E-01	0.610877576	7
0.481231941	41	1.10E-02	1	41
0.822602005	12	1.62E-02	1	12
0.165117394	3	6.08E-01	0.292360099	3
-0.299746334	3	2.01E+00	0.037816772	3
0.278530111	36	3.62E-01	0.17160355	36
3	18	1.24E-09	4	18
1	31	6.74E-08	2	31
0.075050105	18	2.22E+00	0.489513246	18
-0.846642401	6	2.92E+01	-0.790860938	6
0.491263937	14	9.96E-02	1	14
0.559644694	4	1.96E-01	1	4
0.797484736	3	1.19E-01	1	3
0.721367291	6	8.56E-02	0.368873423	6
0.271387042	7	4.55E-01	0.815978421	7
-0.225395205	33	4.36E+02	-0.106449175	33
-0.467501266	11	2.87E+01	-0.492697793	11
0.34320848	7	3.39E-01	0.71467383	7
0.808544162	29	5.02E-04	1	29
0.110598858	11	1.11E+00	0.014089042	11
-0.470456016	8	1.26E+01	-0.443660741	8
-0.196559633	3	1.54E+00	-0.027486495	3
-0.557938878	6	9.99E+00	-0.317917815	6
0.969123773	14	3.91E-03	0.826814924	14
1	82	2.74E-18	2	82
0.211192079	7	5.82E-01	0.923847058	7
-0.183954112	27	8.80E+01	-0.132969952	27
-1	8	2.97E+02	-2	8
-1	5	3.22E+01	-1	5
-0.769166179	8	4.81E+01	-1	8
0.231038058	8	5.43E-01	-0.064695733	8
-0.088930516	9	2.60E+00	-0.406969031	9
-0.330142332	3	2.17E+00	0.628209604	3
0.11792932	3	6.86E-01	0.680282141	3
0.819098673	8	3.88E-02	2	8
0.886130672	21	1.29E-03	1	21
2	10	5.62E-05	3	10
0.262523265	13	4.70E-01	1	13
1	24	2.73E-05	1	24
-0.477865591	4	4.22E+00	0.008683578	4
-0.826796979	5	1.79E+01	-0.511807888	5
-0.240349127	13	1.17E+01	0.137546456	13
-0.11926346	4	1.46E+00	-0.07779808	4

2	7	6.90E-04	2	7
1	5	3.70E-02	0.907162848	5
0.017647149	3	8.88E-01	-0.543266662	3
-0.068798656	1	8.62E-01	-0.058784672	1
-0.804388551	1	3.27E+00	0	1
-0.894461787	7	5.43E+01	-1	7
0.254856834	2	4.81E-01	-0.44748591	2
-0.078583071	1	8.78E-01	-0.043051524	1
-0.484611054	5	5.72E+00	-0.154464094	5
-0.037064502	3	1.02E+00	-0.677362291	3
1	22	7.29E-05	1	22
0.83228404	9	2.94E-02	1	9
1	19	1.86E-05	2	19
1	7	1.05E-02	1	7
0.480599313	29	3.04E-02	0.829629794	29
-0.309910383	4	2.57E+00	-0.452296847	4
0.233003211	16	5.85E-01	0.225662298	16
0.546595744	8	1.32E-01	0.824104767	8
-0.409526861	6	5.75E+00	-1	6
0.167889713	7	6.95E-01	0.310915905	7
0.352744863	18	2.21E-01	0.51565918	18
0.450481237	2	3.13E-01	0.680636692	2
0.701921431	9	5.55E-02	-0.637078361	9
-0.090641825	5	1.53E+00	0.092248993	5
-0.210820063	3	1.60E+00	0	3
2	13	9.77E-05	2	13
-0.434768468	46	2.61E+05	-0.060127478	46
-0.087995906	17	7.53E+00	0.217780936	17
-0.792105151	9	7.98E+01	-0.900812537	9
-0.914768624	11	3.56E+02	-0.224160789	11
0.243910177	13	5.29E-01	-0.185851617	13
-2	5	2.03E+02	-0.717412086	5
-0.980087522	5	2.99E+01	-0.620402294	5
-0.55434839	4	5.29E+00	-0.809528043	4
-0.428137779	13	3.89E+01	0.061748849	13
0.30605734	5	4.08E-01	-0.112899993	5
-0.640154703	6	1.36E+01	-0.568687618	6
-1	8	3.31E+02	-1	8
0.179098831	3	5.86E-01	-0.245679439	3
0.005356143	11	2.00E+00	-0.19149427	11
-0.411133481	3	2.68E+00	0	3
0.168405936	4	6.24E-01	-0.169158575	4
0.579693747	5	1.64E-01	0.835840276	5
1	9	8.72E-03	1	9
0.292261405	8	4.12E-01	-0.105596813	8
-0.469166696	3	3.11E+00	-0.676320498	3
-0.028733014	7	1.56E+00	0.241656747	7

-0.329025939	10	1.05E+01	0.635309367	10
2	12	2.73E-04	2	12
1	21	2.34E-05	2	21
0.750166073	9	4.39E-02	1	9
0.607031906	21	1.80E-02	2	21
0.550694998	6	1.62E-01	0.242763974	6
-0.646308797	11	7.85E+01	-1	11
0.583931827	11	7.70E-02	0.532792649	11
0.108293529	3	7.03E-01	0.49193326	3
0.036148188	1	7.13E-01	-8.54E-05	1
-0.31755068	9	7.92E+00	-0.153513498	9
0.370017651	5	3.30E-01	-0.000821713	5
0.139216608	10	8.99E-01	0.374896514	10
-0.355626434	16	4.96E+01	-0.111420081	16
-2	7	7.15E+03	-2	7
-1	12	1.86E+03	-1	12
-2	2	2.29E+01	-2	2
-0.269196065	15	2.11E+01	-0.120440258	15
0.309906516	12	3.53E-01	0.99475535	12
0.013814656	10	1.74E+00	0.846292708	10
0.325551381	3	4.02E-01	2	3
-0.582244438	22	1.89E+03	0.100362076	22
0.039098479	17	2.75E+00	0.72154269	17
2	4	2.75E-03	3	4
2	2	2.76E-02	2	2
0	1	7.61E-01	0	1
0.132960119	3	6.60E-01	-0.262187017	3
0.568563867	7	1.34E-01	0.695739623	7
-0.43412943	1	1.67E+00	0.234730945	1
0.105507983	2	6.68E-01	0.533800848	2
-0.062005959	5	1.39E+00	1	5
-0.191224897	4	1.81E+00	0.061879133	4
0.822403205	41	3.21E-05	1	41
2	17	2.02E-07	3	17
-0.069467915	3	1.11E+00	0.601447591	3
2	23	3.68E-07	2	23
0.063907821	5	9.16E-01	-0.073472886	5
-0.066504325	5	1.42E+00	0	5
-0.210821446	3	1.60E+00	-0.028288725	3
2	16	3.56E-05	2	16
0.090054125	6	8.96E-01	-0.000396122	6
-0.000662611	13	2.53E+00	0.763110291	13
0.229300715	9	5.53E-01	0.251558796	9
0.995177983	9	1.33E-02	1	9
2	3	8.91E-03	1	3
0.04128164	26	5.75E+00	0.644901566	26
0.046243824	2	7.60E-01	0.424167085	2

0.411271749	19	1.28E-01	0.814500652	19
2	13	1.21E-06	3	13
1	6	8.53E-03	2	6
2	18	3.23E-06	2	18
1	18	3.00E-05	2	18
0.043196778	19	3.14E+00	0.101873818	19
-0.632384129	4	6.66E+00	0	4
0.286911824	21	3.71E-01	1	21
1	10	4.35E-03	2	10
2	8	7.77E-04	2	8
1	31	5.44E-06	2	31
0.162842425	17	1.03E+00	0.6030231	17
2	23	9.45E-09	2	23
0.300629699	18	3.41E-01	0.281676005	18
0.977281746	8	1.91E-02	1	8
0.279447609	7	4.40E-01	-0.177034457	7
-0.466848109	11	2.86E+01	0.124143307	11
-0.064433598	7	1.80E+00	0.553182948	7
1	11	1.87E-03	0.480308429	11
-0.100042621	6	1.82E+00	-0.036974451	6
-0.056291213	15	4.59E+00	0.069805547	15
-0.959882537	4	1.75E+01	-0.628132142	4
-0.527785447	4	4.89E+00	-0.008895805	4
-0.462127699	11	2.78E+01	-0.677398529	11
0.072932659	3	7.70E-01	0.089037203	3
0.660943896	6	1.07E-01	1	6
0.823548099	8	3.81E-02	1	8
1	3	5.80E-02	1	3
0.482787931	10	1.48E-01	0.766266346	10
0.437059734	15	1.34E-01	0.727021074	15
1	2	4.46E-02	0.869170774	2
0.618476917	17	2.79E-02	2	17
-0.760332234	12	2.20E+02	-0.750939674	12
-0.313051919	6	4.02E+00	-0.550074277	6
0.055185668	6	1.02E+00	0.050395732	6
0.71495045	14	2.19E-02	0.824861763	14
0.328500804	9	3.42E-01	0.907239528	9
0.423170696	9	2.15E-01	0.995067901	9
2	23	2.00E-07	2	23
-0.190016788	14	1.01E+01	-0.146802695	14
-0.366492199	2	1.88E+00	-0.404038003	2
-1	2	8.25E+00	-0.730305809	2
-0.699580215	13	2.21E+02	-0.752765984	13
0.230779234	10	5.56E-01	0.217788304	10
-0.879304147	8	7.89E+01	-0.61835579	8
-0.740039624	5	1.34E+01	-0.20733213	5
-0.734369191	9	6.02E+01	-0.62493115	9

-1	5	3.65E+01	-0.45390353	5
-0.026688614	6	1.38E+00	-0.107194289	6
-0.090855222	15	5.88E+00	-0.081487199	15
1	38	7.70E-07	1	38
2	6	1.12E-03	3	6
0.429989968	5	2.70E-01	2	5
1	10	9.67E-03	1	10
0.803498943	24	1.51E-03	0.878364664	24
-1	5	4.68E+01	-2	5
-1	7	1.08E+02	-0.249728965	7
0.279307272	7	4.40E-01	0.025606922	7
0.390473642	32	8.08E-02	1	32
0.784425086	36	1.67E-04	0.838491139	36
0.408018552	1	3.64E-01	0.455279914	1
-1	6	5.89E+01	-2	6
-0.399227471	4	3.34E+00	-1	4
-1	18	1.38E+05	-0.880340976	18
-0.114828604	5	1.66E+00	-0.256023081	5
-0.029606226	1	8.03E-01	0.049085025	1
0.474691644	6	2.14E-01	0.909254682	6
0.779888556	19	5.22E-03	2	19
0.79303071	30	4.98E-04	0.801854689	30
0.391719655	7	2.78E-01	0.004698435	7
-0.022447616	10	2.10E+00	0.106010012	10
0.274742012	12	4.37E-01	0.119000731	12
0.332302557	5	3.74E-01	0.03132021	5
-0.660840745	9	4.21E+01	-0.437427058	9
0.325294201	4	3.92E-01	1	4
0.186659606	5	6.08E-01	0.293315173	5
0.772134147	13	1.80E-02	2	13
2	7	4.52E-04	3	7
2	4	1.45E-03	2	4
3	1	7.96E-03	2	1
1	5	1.63E-02	2	5
0.113774378	27	2.67E+00	0.975330305	27
-0.935998234	4	1.63E+01	0.428465375	4
-0.03099883	6	1.41E+00	1	6
0.328399208	6	3.69E-01	0.391815641	6
0.378832029	10	2.56E-01	0.32567236	10
0.147514053	5	6.93E-01	0.457565934	5
0.34642935	8	3.23E-01	0.744583643	8
-0.956355913	1	4.30E+00	0.046222095	1
-0.243350897	8	4.55E+00	0.010814474	8
0	2	8.41E-01	0	2
-0.18848353	4	1.79E+00	-0.32213512	4
0.076317376	10	1.25E+00	0.115202911	10
1	12	2.48E-03	1	12

0.875234359	17	3.65E-03	1	17
-0.13002901	13	5.78E+00	-0.014079518	13
1	82	2.12E-12	2	82
0.556198885	18	4.08E-02	0.479604837	18
-0.000134747	2	8.41E-01	0.019177481	2
0.23875516	89	1.03E+00	0.354539678	89
0.991172848	11	7.77E-03	0.724818944	11
0.662513872	4	1.45E-01	1	4
-0.010586829	6	1.30E+00	0.439982895	6
0.865788225	4	7.94E-02	0.397741433	4
1	7	1.54E-02	0.793826674	7
0.329165987	4	3.88E-01	0.100900507	4
1	5	3.20E-02	1	5
0.678756761	25	4.82E-03	1	25
-0.098235753	10	3.13E+00	0.04256345	10
0.015512232	11	1.89E+00	0.836123807	11
-0.508616358	11	3.61E+01	-1	11
0.066983411	20	2.75E+00	0.28612183	20
0.205672466	11	6.48E-01	0.398518581	11
-0.204636963	3	1.57E+00	-0.481336507	3
-0.196126047	10	5.22E+00	0.433926255	10
0.612327689	5	1.47E-01	-0.174301749	5
-0.37540274	1	1.50E+00	-0.198089042	1
-0.894674185	5	2.25E+01	1	5
0.525713965	9	1.31E-01	1	9
0.750979985	27	1.50E-03	1	27
0.559448187	6	1.56E-01	0.748162001	6
1	7	1.12E-02	2	7
2	17	2.47E-05	1	17
-0.419403296	25	8.31E+02	-0.02726136	25
-0.371726068	23	3.04E+02	-0.531118644	23
0.163141311	14	9.20E-01	0.209363601	14
2	10	2.08E-05	2	10
3	2	8.35E-04	4	2
3	5	1.49E-04	3	5
0.911547489	14	5.77E-03	0.537196044	14
0.466229297	11	1.49E-01	0.357989464	11
0.222243733	22	6.93E-01	0.623636401	22
0.307260838	3	4.21E-01	1	3
0	4	1.03E+00	-0.029930269	4
0.370428432	22	1.61E-01	0.665386556	22
0.460539061	3	2.84E-01	-0.401759861	3
0.012956663	7	1.31E+00	0.170460098	7
0.016136739	3	8.91E-01	1	3
0.915550216	2	1.13E-01	1	2
1	17	1.81E-04	2	17
-0.767430558	30	2.70E+05	0.422397945	30

-1	4	2.06E+01	-1	4
-0.086071994	3	1.16E+00	-0.952674533	3
1	20	5.94E-05	2	20
0.249344237	23	5.33E-01	0.289466103	23
0.457217256	11	1.57E-01	0.333419104	11
0.773236344	2	1.54E-01	0.203141668	2
0.954280342	8	2.12E-02	1	8
0.939448506	4	6.39E-02	1	4
0.899768132	4	7.18E-02	-0.067196046	4
0.540258095	8	1.36E-01	0.181168629	8
0.411936399	4	3.04E-01	-0.087556565	4
0.086674443	6	9.08E-01	-0.392717967	6
-0.527810552	9	2.20E+01	-0.371951978	9
-0.091515863	15	5.91E+00	0.753770327	15
-0.414217745	8	9.80E+00	-0.503473657	8
-0.207275706	4	1.89E+00	0.519411043	4
2	19	8.03E-07	2	19
-0.788351603	15	8.67E+02	-0.208199385	15
2	2	7.91E-03	2	2
1	4	1.65E-02	0.866996359	4
1	14	2.15E-03	0.997007143	14
0.367132661	10	2.72E-01	0.72349849	10
0.888202561	10	1.76E-02	0.833575336	10
0.382894781	9	2.62E-01	0.699600796	9
4	9	7.41E-10	5	9
4	9	2.35E-08	5	9
1	11	9.37E-04	3	11
0.062906089	14	1.81E+00	0.53135135	14
-0.176269217	7	2.85E+00	0.277411757	7
0.030734953	4	9.37E-01	1	4
0.789597605	12	1.98E-02	1	12
1	9	5.00E-03	1	9
-0.175880899	4	1.73E+00	0.035402009	4
-0.653368077	9	4.06E+01	-0.60912266	9
0.131550637	21	1.61E+00	0.040500587	21
-0.107673947	62	4.95E+03	0.221098879	62
0.389949782	6	2.94E-01	1	6
1	8	1.58E-02	2	8
0.643492995	14	3.55E-02	1	14
0.092053681	9	1.08E+00	0.452003761	9
-0.277263867	8	5.30E+00	-0.538230013	8
-2	4	1.03E+02	-2	4
0.077804021	6	9.38E-01	0.366829433	6
0.525537195	5	1.96E-01	0.990934793	5
0.989169427	8	1.81E-02	2	8
0.822850559	6	5.87E-02	2	6
-0.633940576	2	3.38E+00	-1	2

-0.46767707	7	9.43E+00	-0.240404029	7
-0.480703535	6	7.49E+00	-1	6
-0.278040599	19	5.12E+01	-0.339655057	19
-0.491865071	7	1.04E+01	-0.388267343	7
0.837035513	52	2.22E-06	1	52
-0.380999346	8	8.44E+00	-0.447460576	8
-0.764930122	5	1.46E+01	-0.788154661	5
0.06697296	5	9.07E-01	-0.102373231	5
0.04819124	4	8.90E-01	0.116660211	4
-0.208160394	21	3.99E+01	0.446497764	21
-0.299253798	2	1.62E+00	-1	2
-0.643912719	11	7.74E+01	-0.31717754	11
0.071775833	5	8.93E-01	0.21204481	5
-0.101560624	2	1.05E+00	-0.19308078	2
-0.026834167	6	1.38E+00	-0.118124868	6
0.501824636	11	1.22E-01	0.298500823	11
0.038032971	7	1.18E+00	0.022917085	7
-0.256399548	14	1.58E+01	0.021397012	14
-0.245785034	17	2.63E+01	0.142527225	17
0.849863935	9	2.70E-02	0.404041632	9
-0.048868843	4	1.19E+00	-0.334691087	4
-0.407593306	2	2.06E+00	-0.232051963	2
-0.116451946	1	9.40E-01	-0.032748906	1
0.160978861	8	7.43E-01	-0.498400319	8
0.018624226	2	8.08E-01	-0.302711142	2
0.088655981	6	9.01E-01	0.87081429	6
-0.253817026	2	1.47E+00	0.165427217	2
1	11	7.34E-04	2	11
0.666486613	11	4.84E-02	1	11
0.024408643	1	7.29E-01	0.16176891	1
-0.639686482	7	1.91E+01	-0.277754345	7
1	80	2.85E-16	2	80
-0.974171151	7	7.53E+01	-0.376290957	7
-0.100441956	2	1.05E+00	-0.755536879	2
0.818042355	30	3.60E-04	2	30
0.326805091	17	2.81E-01	0.726057225	17
0.5670821	18	3.73E-02	0.557942515	18
1	6	1.12E-02	2	6
-0.556396526	6	9.93E+00	0.223661042	6
-1	15	5.05E+03	-0.359556009	15
0.246761588	2	4.90E-01	0.314721095	2
1	10	6.00E-03	2	10
0.121264383	20	1.68E+00	0.28598652	20
0.033824154	1	7.16E-01	-0.029133716	1
0.8033616	8	4.17E-02	-0.23436518	8
-0.845448365	14	8.56E+02	-0.421227753	14
2	12	2.29E-04	2	12

2	6	3.23E-03	2	6
-1	23	5.60E+06	-0.610894321	23
-0.48158603	3	3.21E+00	-0.178127815	3
-6.95E-05	1	7.62E-01	0	1
-6.95E-05	1	7.62E-01	0	1
-0.027915182	3	9.99E-01	0.012596569	3
-0.193370856	7	3.06E+00	0	7
0.024320715	4	9.55E-01	0.003169312	4
0.25663941	4	4.81E-01	-0.082003572	4
0.643104842	19	1.71E-02	1	19
-0.730205467	4	8.89E+00	-0.023028683	4
-0.330715899	4	2.73E+00	0.170121612	4
0.163123586	3	6.11E-01	0.273514492	3
0.610789594	57	1.41E-04	0.714011466	57
0.799263286	44	2.58E-05	1	44
2	4	5.34E-03	0.88406927	4
-0.134535057	7	2.40E+00	-0.200053793	7
-0.102258668	8	2.42E+00	-0.010199527	8
-0.171218026	11	5.41E+00	-0.022171571	11
-0.162070644	5	1.95E+00	-0.274506643	5
-0.406799836	8	9.48E+00	-0.251575244	8
0.074140155	3	7.68E-01	-0.03109765	3
0.129224552	14	1.16E+00	0.302217582	14
0.078536231	1	6.61E-01	0.683431731	1
0.320269818	3	4.07E-01	0.508419587	3
0.603273872	24	1.26E-02	0.434795268	24
-0.430509506	7	8.09E+00	0.250569841	7
1	3	3.18E-02	0.333804008	3
-0.037442859	13	3.20E+00	0.526255657	13
0.318463744	6	3.83E-01	0.010955755	6
-0.384689003	4	3.20E+00	0.027630076	4
-0.00093515	2	8.43E-01	-0.001561182	2
0.010275606	2	8.22E-01	0	2
-0.094155446	8	2.33E+00	0	8
0.057143454	18	2.58E+00	0.0243007	18
-0.026701883	24	9.99E+00	0.30456894	24
-0.004423482	8	1.56E+00	-0.135734361	8
0	5	1.13E+00	-0.018583898	5
-0.494573355	4	4.43E+00	0.216702244	4
-0.111950358	23	2.14E+01	-0.289409741	23
-0.271814459	6	3.44E+00	-0.691206147	6
0.175805109	12	7.91E-01	0.186834422	12
0.011581914	14	2.57E+00	0.048316894	14
-0.597562614	7	1.61E+01	0.115625074	7
-0.900795817	15	1.94E+03	-0.375508492	15
-0.673724136	12	1.31E+02	-0.595524396	12
0.358991704	129	3.25E-03	0.596790266	129

-0.764878082	3	6.66E+00	-0.004667099	3
-0.12579217	5	1.73E+00	-0.045170305	5
-2	5	1.77E+02	-2	5
-0.111232305	8	2.52E+00	-0.376090074	8
-0.878364605	6	3.29E+01	-1	6
-0.712865517	4	8.45E+00	0	4
-0.163602063	5	1.96E+00	-0.108283646	5
-1	10	1.32E+03	-0.36590111	10
-0.137304992	4	1.54E+00	-0.15802971	4
-0.059935632	5	1.39E+00	0	5
-0.029503876	3	1.00E+00	-0.026165262	3
-0.083506169	18	8.28E+00	0.445901029	18
0.357370438	24	1.71E-01	0.949998443	24
-0.256216768	15	1.92E+01	0.173098996	15
0.90480193	18	2.26E-03	1	18
0.074846256	8	1.09E+00	-0.199060815	8
-0.112865135	2	1.08E+00	0.474436063	2
0	10	1.87E+00	0.042319119	10
0	2	8.41E-01	0	2
-0.325007541	18	6.16E+01	-0.10958789	18
-1	3	1.31E+01	-0.560953302	3
-1	3	1.76E+01	-2	3
-0.105377348	1	9.21E-01	-9.89E-05	1
1	3	3.21E-02	0.617915905	3
0.131276947	4	6.96E-01	0.793325305	4
0.160743396	3	6.14E-01	0.044541055	3
0.110155038	6	8.32E-01	-0.126398958	6
-0.252835966	10	7.04E+00	-0.106414984	10
-0.338025667	12	1.74E+01	-0.18185144	12
0	9	1.69E+00	0	9
0.010381505	4	9.96E-01	-0.293965767	4
-0.030894436	3	1.01E+00	-0.33935436	3
-0.11546227	2	1.08E+00	-0.227232678	2
-0.042649385	2	9.24E-01	-0.072363288	2
-0.050387625	1	8.34E-01	0	1
-0.134038766	2	1.13E+00	0	2
-0.166775574	4	1.68E+00	-0.41591032	4
-0.872107906	4	1.35E+01	0	4
-0.025203969	2	8.89E-01	0	2
-0.035689288	3	1.02E+00	0	3
-0.106577365	7	2.14E+00	-0.018147151	7
-0.189865439	6	2.54E+00	-0.124846571	6
0	7	1.38E+00	0	7
0.008097268	4	1.00E+00	0	4
0.0981752	7	9.25E-01	1	7
-0.476948629	12	4.01E+01	0.068009326	12
-0.374883353	4	3.11E+00	-0.313406494	4

0.01323765	9	1.58E+00	-0.013886645	9
0.456300077	13	1.36E-01	-0.942522238	13
-0.003291872	9	1.72E+00	0.005341448	9
0.001074731	18	4.10E+00	0	18
0.161360024	13	8.97E-01	0.092032519	13
-0.139732612	9	3.33E+00	-0.042187177	9
0.108759541	5	7.89E-01	-0.320945026	5
-0.505277617	28	5.13E+03	-0.426081991	28
-0.334102637	5	3.46E+00	-0.582956436	5
-0.569353875	5	7.59E+00	-0.025877101	5
-0.90162023	9	1.36E+02	-0.449921871	9
-0.071194269	19	8.49E+00	-0.154809414	19
0.063266545	5	9.18E-01	0	5
-0.001803843	14	2.81E+00	0	14
-0.040387006	11	2.59E+00	0.077341671	11
0.176066541	30	1.41E+00	0.258294145	30
-0.906934994	16	3.17E+03	-0.651211345	16
-0.935467927	9	1.60E+02	-1	9
-0.183979146	5	2.10E+00	-0.017043321	5
-0.252465464	8	4.74E+00	-0.29786866	8
-0.311264261	9	7.68E+00	-0.296405396	9
-0.393380296	3	2.56E+00	0.105075508	3
-0.521380678	7	1.18E+01	-1	7
0	6	1.25E+00	0	6
-0.10680618	4	1.41E+00	0	4
0	7	1.38E+00	0	7
-0.161266913	7	2.68E+00	-0.318548051	7
-0.069661786	5	1.43E+00	0	5
0	6	1.25E+00	0	6
-0.276816909	6	3.51E+00	0.159856064	6
-0.487184273	9	1.81E+01	-0.654778379	9
-0.01818841	3	9.74E-01	0	3
-0.428249572	7	8.02E+00	-0.195660184	7
-0.037842072	8	1.81E+00	-0.246397907	8
0.122034005	6	7.96E-01	-0.116200022	6
-0.592750327	3	4.27E+00	0.22236914	3
-0.068436538	3	1.11E+00	-0.163087412	3
-0.137130767	3	1.32E+00	0.524948392	3
-0.127251358	8	2.71E+00	1	8
0.814042979	11	2.11E-02	1	11
-0.142737614	9	3.38E+00	0.776451361	9
0	1	7.61E-01	0	1
-0.336836261	7	5.51E+00	-0.35754813	7
1	37	2.44E-07	2	37
1	12	9.51E-04	2	12
0.162529803	74	8.77E+00	0.131207451	74
0.40994445	2	3.42E-01	-0.541097338	2

-0.335101233	11	1.36E+01	-0.358013975	11
-0.451554706	27	2.04E+03	-0.68895335	27
-0.211210431	2	1.34E+00	0.237003607	2
0.590328334	14	5.09E-02	0.939570024	14
3	9	4.55E-06	3	9
2	9	5.21E-05	3	9
0.141798296	5	7.06E-01	0.520578551	5
0.185460111	3	5.77E-01	0.842522934	3
0.658702077	12	4.34E-02	0.689035131	12
0.096696209	9	1.06E+00	0.290039834	9
3.97E-05	8	1.53E+00	-0.064020249	8
0	13	2.52E+00	0	13
0	1	7.61E-01	0	1
0.003812888	13	2.46E+00	0	13
-0.000317191	1	7.62E-01	-0.046606439	1
-0.26648905	10	7.56E+00	-1	10
-0.003288841	5	1.15E+00	-0.393460949	5
-0.154381344	7	2.61E+00	-0.503808349	7
-0.112846738	5	1.65E+00	-0.123081256	5
-0.054363898	10	2.48E+00	-0.984616631	10
-0.37755558	11	1.73E+01	-0.482112452	11
0.350940319	3	3.77E-01	0.586740138	3
-0.668949095	6	1.51E+01	0.12618964	6
-0.775902674	7	3.34E+01	-1	7
0.011280747	1	7.46E-01	-0.01902257	1
1	18	4.69E-04	2	18
0.972710539	5	4.41E-02	1	5
0.248818535	3	4.90E-01	0.159502096	3
0.964056542	6	3.47E-02	2	6
-0.173014324	2	1.23E+00	-0.220443995	2
-0.758719727	6	2.11E+01	-0.487686344	6
-0.009232194	4	1.06E+00	0.136149804	4
1	13	7.73E-04	0.767656309	13
-0.089395129	6	1.75E+00	-0.114338373	6
-0.731654663	5	1.30E+01	-0.785201498	5
-0.785167926	12	2.56E+02	-0.942327169	12
-0.566908048	7	1.42E+01	-0.658518089	7
-0.337710616	7	5.53E+00	0.045945832	7
-0.991931379	11	5.49E+02	-0.873725515	11
-0.218100357	14	1.22E+01	-0.40302246	14
1	224	6.60E-45	2	224
0.938041993	4	6.41E-02	-0.311558692	4
0.254892195	5	4.84E-01	-0.011658467	5
-0.497485374	5	5.97E+00	0	5
0	3	9.29E-01	-0.81066537	3
-0.220340795	10	5.93E+00	-0.207655936	10
0.453063222	1	3.35E-01	0	1

-0.335141217	8	6.87E+00	-0.228227666	8
-0.638359123	5	9.55E+00	-0.658844145	5
0.070447832	4	8.34E-01	-0.07676536	4
0.196202397	14	7.35E-01	0.176175483	14
0.306454506	26	2.82E-01	0.272184424	26
0.037321327	36	1.41E+01	0.561627189	36
-2	4	3.58E+02	-0.992925763	4
-0.182634426	7	2.93E+00	-0.090951566	7
-0.362496745	5	3.80E+00	-0.061735774	5
-0.14685112	2	1.16E+00	-0.694189142	2
2	15	3.91E-06	2	15
-0.06663677	3	1.10E+00	0.105153191	3
0.909633665	7	3.32E-02	0.527998543	7
0.018245979	5	1.07E+00	0.980307083	5
0.193854008	3	5.64E-01	0.245119375	3
2	7	6.23E-04	3	7
2	6	1.70E-04	3	6
0.450989183	13	1.41E-01	-0.014588837	13
-0.021705665	8	1.69E+00	-0.064977234	8
0.105085452	14	1.36E+00	-0.1608548	14
3	6	9.63E-05	3	6
0.488564252	12	1.21E-01	0.94499177	12
0.090252672	18	1.96E+00	0.196575522	18
-0.915410556	2	6.26E+00	-0.910152615	2
0.908262009	22	8.15E-04	0.645738998	22
1	10	4.95E-03	0.864112424	10
0.767459538	7	5.94E-02	0.694689982	7
-0.376902312	23	3.20E+02	-0.371550167	23
-0.708816653	60	8.51E+09	-0.609811702	60
-0.49831652	11	3.41E+01	-0.944522906	11
-0.915342616	13	8.77E+02	-0.979257599	13
-0.3513537	12	1.88E+01	-0.447629144	12
0.028572281	8	1.35E+00	0.185939325	8
-0.100422932	1	9.13E-01	0.044019064	1
-0.050631401	25	1.45E+01	0.137997066	25
1	17	1.02E-03	1	17
-0.024633671	3	9.90E-01	-0.160826721	3
-0.132218259	15	7.91E+00	-0.394628307	15
-0.423355776	38	2.59E+04	-0.627722797	38
-0.268678698	10	7.65E+00	-0.45748698	10
-0.322084641	9	8.10E+00	-0.429564566	9
-0.163588357	4	1.67E+00	-0.103817287	4
-0.430341375	6	6.21E+00	-0.480148398	6
0.338435587	36	1.46E-01	0.070912623	36
-0.315361684	6	4.05E+00	-0.905863724	6
0.166720172	7	6.98E-01	0.270023336	7
-0.945983203	12	6.72E+02	-0.835283636	12

-0.492885616	14	7.85E+01	-0.143583562	14
0	2	8.41E-01	0.550026371	2
-0.432238914	9	1.38E+01	-0.211095113	9
-0.065615754	4	1.25E+00	0.65725936	4
0	2	8.41E-01	0.105643009	2
0	8	1.53E+00	0	8
0.005279507	8	1.49E+00	-0.010329896	8
-0.417448762	6	5.92E+00	-0.320230764	6
-0.250971621	4	2.16E+00	-0.359065364	4
-0.306619398	6	3.92E+00	-0.147301781	6
-0.52492316	5	6.54E+00	-0.349392808	5
-0.393559296	5	4.22E+00	0.096579811	5
-0.081930693	7	1.94E+00	-0.409881461	7
0.408576553	15	1.65E-01	0.776133118	15
0.003421713	7	1.36E+00	0.001990531	7
0.067264431	11	1.41E+00	0.223284099	11
-0.000224483	1	7.62E-01	0	1
0.00433568	4	1.01E+00	0	4
1	8	1.29E-02	0.340578685	8
0.435823598	25	6.95E-02	0.976755005	25
-0.289469403	6	3.68E+00	0.811484153	6
-0.532725985	4	4.96E+00	1	4
1	23	5.18E-05	2	23
-0.130576326	11	4.30E+00	-0.035919055	11
-0.187318103	12	7.02E+00	0.615647994	12
-0.063355492	13	3.77E+00	-0.940223286	13
0.019233135	8	1.40E+00	-0.184281964	8
-0.500511366	5	6.03E+00	-0.814508243	5
0.082407716	10	1.21E+00	0.033520727	10
-1	9	5.08E+02	-0.147767361	9
-0.685070129	13	2.01E+02	-0.259392069	13
0.002449902	10	1.84E+00	-0.051799354	10
-1	13	1.01E+04	-0.693155472	13
-1	3	2.87E+01	0	3
-0.910577523	3	9.68E+00	-0.473016831	3
-0.194963148	10	5.19E+00	-0.05628574	10
-1	13	4.79E+03	-1	13
-0.134766276	6	2.07E+00	0.095224813	6
0	4	1.03E+00	-0.383922539	4
-0.244582482	9	5.55E+00	-0.912760423	9
-0.207272078	10	5.54E+00	-0.085500922	10
0.366101293	4	3.48E-01	-0.000127253	4
-0.536407233	12	5.73E+01	-1	12
0.141525366	9	8.48E-01	-1	9
-1	10	1.79E+03	-0.872315795	10
-0.944461465	18	1.06E+04	-1	18
-0.148582117	4	1.59E+00	-0.145267878	4

-0.452593497	13	4.55E+01	-0.11122978	13
-0.681978863	10	6.69E+01	-0.229677449	10
-0.911742819	14	1.34E+03	-1	14
-0.463075918	10	2.12E+01	-0.853175013	10
0.307210308	4	4.14E-01	0	4
-0.239939152	4	2.09E+00	-0.153439442	4
-0.429670565	8	1.05E+01	0.231919137	8
0	1	7.61E-01	-0.037020146	1
-0.482775928	4	4.28E+00	-0.490692909	4
-0.171221613	5	2.01E+00	-0.059257804	5
-0.198973844	4	1.85E+00	-0.018560478	4
-0.9382779	8	1.03E+02	-0.606881984	8
-0.014897106	6	1.32E+00	-0.376287869	6
-0.220067667	6	2.84E+00	-0.075436287	6
-1	12	2.87E+03	-1	12
-0.749155715	12	2.06E+02	-0.860480982	12
-0.252381245	7	3.90E+00	-0.001783652	7
-1	9	5.16E+02	-0.808741738	9
-0.284269525	8	5.47E+00	-0.321919227	8
-2	7	1.50E+03	-2	7
-0.095316284	7	2.05E+00	-0.385489359	7
0	4	1.03E+00	-0.165966063	4
-0.912845864	4	1.53E+01	-0.239151288	4
-0.57518219	11	5.26E+01	-0.804760675	11
-0.670034667	8	3.09E+01	-0.041747468	8
-0.273971496	3	1.88E+00	0	3
0	5	1.13E+00	-0.037371684	5
-0.117518991	2	1.09E+00	-0.097100723	2
-0.859169743	13	6.12E+02	-0.597230552	13
-0.137884709	2	1.14E+00	-0.215491996	2
-0.490342089	6	7.77E+00	-0.357783902	6
-0.416987343	11	2.16E+01	-0.754485754	11
-0.017188376	3	9.71E-01	-0.30172707	3
0.017229209	6	1.18E+00	-0.226556674	6
-0.479964755	3	3.20E+00	-0.587378771	3
-0.737137955	3	6.20E+00	-1	3
-0.708708645	15	4.91E+02	-0.630589089	15
-0.162114959	6	2.29E+00	-0.54241427	6
-0.943954524	4	1.67E+01	-1	4
0.437140467	14	1.44E-01	0.613084979	14
0.788994504	8	4.44E-02	0.948246611	8
-0.333678774	4	2.75E+00	-0.237033414	4
-0.787094277	7	3.50E+01	-0.511214429	7
-0.010093513	5	1.17E+00	-0.386964776	5
-0.95038033	6	4.30E+01	-0.005677417	6
-0.022831393	2	8.84E-01	0	2
-1	14	5.50E+03	-0.301049942	14

-0.274247653	5	2.83E+00	0	5
-1	11	6.20E+02	-0.517810407	11
-2	7	7.85E+02	-1	7
-2	5	6.43E+02	-0.854562919	5
-0.197901521	2	1.30E+00	-1	2
0.091456928	7	9.51E-01	-0.238032187	7
-0.457544634	3	3.02E+00	0	3
-0.123943388	4	1.48E+00	0.313118427	4
-0.576397116	17	3.61E+02	-0.541635359	17
-0.00698584	4	1.05E+00	0.083884586	4
-0.189699188	4	1.80E+00	-0.132879189	4
0.10183034	8	9.69E-01	0.009152346	8
0.339070608	9	3.24E-01	0.75395059	9
0.16729581	13	8.63E-01	0.6854865	13
0.472840891	11	1.44E-01	0.882634071	11
-0.42516938	12	2.94E+01	-0.696898372	12
-0.256935629	39	2.23E+03	-0.535325474	39
0.458579091	20	7.90E-02	1	20
0.066182158	9	1.22E+00	0.315291746	9
0.116950776	13	1.19E+00	0.205861661	13
0.156483546	19	1.17E+00	0.096550803	19
-0.728043919	14	3.86E+02	-0.471578008	14
-0.053582469	4	1.20E+00	0.419287162	4
-0.094034631	8	2.33E+00	-0.237816534	8
-0.000224483	1	7.62E-01	-0.065170866	1
-0.073045828	5	1.45E+00	0.950871389	5
-0.203318028	2	1.31E+00	0.354066591	2
-2	3	5.32E+01	-0.422646666	3
-1	3	1.75E+01	-0.323531685	3
-0.614206531	1	2.31E+00	-0.754408881	1
-0.949719652	7	6.81E+01	-2	7
-0.025387474	2	8.89E-01	-0.346756575	2
0.202944175	3	5.51E-01	0.112229407	3
2	27	2.68E-08	2	27
0.759562313	12	2.37E-02	0.523668713	12
-1	5	8.76E+01	-0.793833647	5
-0.60190943	8	2.27E+01	-0.657644918	8
-0.261633295	3	1.82E+00	-0.309350245	3
-0.208379458	12	7.97E+00	-0.237624717	12
0.510144452	26	2.79E-02	1	26
0.026261757	5	1.04E+00	0.667768342	5
0.418005919	19	1.21E-01	2	19
0.979215267	4	5.68E-02	0.370505494	4
-0.13269784	7	2.39E+00	-0.076381588	7
0	9	1.69E+00	0	9
0	9	1.69E+00	0	9
0	6	1.25E+00	-0.007759405	6

0.071163115	10	1.28E+00	0.10074423	10
3	13	9.81E-09	3	13
0.076225836	1	6.63E-01	0	1
-0.617077022	5	8.90E+00	-0.560409003	5
-0.147912713	1	9.95E-01	0	1
-1	4	3.98E+01	-1	4
-0.009571953	3	9.52E-01	0	3
-0.113491143	5	1.66E+00	0.118031276	5
1	9	4.69E-03	2	9
0.776346816	5	8.49E-02	0.950010896	5
-0.988748623	9	2.08E+02	-0.602003572	9
-0.71963325	10	8.15E+01	-0.266874478	10
0.035312467	5	1.01E+00	-0.316895796	5
0.409219991	3	3.24E-01	1	3
-0.182555031	7	2.93E+00	-0.27961232	7
0.018908773	2	8.07E-01	-0.05743177	2
0.009277982	5	1.10E+00	0.004021533	5
0.038063022	2	7.74E-01	0.318512178	2
0.014796712	6	1.19E+00	-0.208941038	6
1	11	2.19E-03	2	11
0.219228768	12	6.10E-01	0.416775206	12
0	3	9.29E-01	0	3
-0.638813546	6	1.35E+01	-0.532305421	6
-0.014683081	9	1.81E+00	-0.611930197	9
0.042484175	2	7.66E-01	0.034425392	2
0.137780192	5	7.16E-01	0.958860766	5
-0.330442365	7	5.37E+00	0.895732581	7
0.908553396	33	5.34E-05	1	33
2	26	3.87E-11	3	26
0.19453777	22	9.11E-01	0.314474369	22
-0.511033711	7	1.13E+01	0.232348775	7
-0.597307292	4	6.00E+00	-0.873132116	4
-0.102200682	10	3.19E+00	0.268356765	10
0.067967333	18	2.35E+00	-0.152284459	18
0.360363953	4	3.54E-01	-2	4
-0.032799131	34	3.27E+01	0.032690767	34
-0.000360631	1	7.62E-01	0.017620452	1
0.34931141	19	2.20E-01	0.458138252	19
0.240222987	3	5.01E-01	0.476153042	3
0.194633654	13	7.25E-01	0.628875537	13
0.656005134	18	1.78E-02	0.599685354	18
0.122975264	12	1.09E+00	0.112982341	12
-0.101717116	16	7.31E+00	-0.191087209	16
-0.002905524	7	1.40E+00	-0.002438572	7
-0.751904396	8	4.45E+01	-0.708773359	8
0	3	9.29E-01	-1.99E-05	3
-0.524291627	6	8.81E+00	0.254585423	6

-0.594256643	3	4.29E+00	-0.557391203	3
-0.8535905	11	2.52E+02	-0.758878262	11
0.375173268	98	5.55E-03	0.579598966	98
-0.348480029	6	4.58E+00	-0.255173653	6
0.244423974	8	5.11E-01	0.951847965	8
-0.025539137	4	1.11E+00	0.011933329	4
1	3	3.92E-02	0.419269081	3
0.119640193	2	6.47E-01	0.191600974	2
-0.591512828	5	8.17E+00	-0.255561863	5
-0.309662884	6	3.97E+00	-0.521835844	6
-0.550080844	7	1.32E+01	-0.220479527	7
0.799120377	14	1.24E-02	0.739762925	14
0.554872883	16	5.17E-02	0.291971796	16
0.162362505	12	8.58E-01	0.26666464	12
0.466703125	9	1.74E-01	0.393207144	9
-0.126231053	6	2.00E+00	0.40463663	6
0.203040941	11	6.57E-01	0.352026969	11
0.11311943	7	8.70E-01	-0.144558548	7
0.068711754	6	9.70E-01	-0.62708805	6
0.612718136	6	1.28E-01	-0.249401723	6
2	12	2.07E-06	3	12
0.637773164	9	7.58E-02	0.389093708	9
2	8	1.34E-03	1	8
0.05019027	7	1.13E+00	0.679852776	7
0.110959379	7	8.78E-01	0.310039106	7
-0.000746244	6	1.26E+00	0.082298158	6
-0.15153888	2	1.17E+00	-0.130080231	2
0.284696234	18	3.89E-01	0.371252318	18
0.154012953	42	3.06E+00	0.421568852	42
0.242403128	47	6.77E-01	0.581301765	47
0.377834141	16	1.96E-01	0.964929391	16
0.395851861	20	1.39E-01	0.324718917	20
0.618030453	19	2.13E-02	0.264628899	19
-2	13	4.36E+04	-2	13
-0.750220042	6	2.04E+01	-0.643828198	6
-0.02137754	1	7.91E-01	-0.035557437	1
-0.452779851	3	2.98E+00	-0.94873959	3
-0.823606511	3	7.74E+00	-1	3
-0.358643377	4	2.96E+00	-0.58989501	4
-0.156369539	2	1.19E+00	-0.281593809	2
-1	12	2.96E+03	-1	12
-0.016201995	44	7.41E+01	-0.235574939	44
0	2	8.41E-01	0	2
0.291142002	4	4.34E-01	-1	4
-0.492488725	8	1.39E+01	-0.74811716	8
-0.041084041	2	9.20E-01	-0.524885508	2
-0.330209893	11	1.32E+01	-0.901349627	11

-0.507468409	7	1.11E+01	-0.035307294	7
-0.432769295	8	1.06E+01	-0.108202538	8
0.016130438	6	1.18E+00	-0.33842092	6
-0.089281096	8	2.28E+00	-0.481798214	8
-0.747295517	8	4.36E+01	-1	8
-2	11	1.01E+04	-0.29372054	11
-0.122299785	8	2.65E+00	-0.302081215	8
-0.513175397	11	3.71E+01	-0.465872013	11
-0.659022912	9	4.17E+01	-0.923731062	9
-0.348332713	4	2.87E+00	0	4
0.046188676	3	8.25E-01	0.073814902	3
2	18	1.49E-05	2	18
0.158646344	82	1.34E+01	0.361072733	82
-0.033805549	4	1.13E+00	-0.036519062	4
-0.096947973	10	3.10E+00	-0.256516734	10
0	2	8.41E-01	0	2
0	3	9.29E-01	0	3
-0.280210628	9	6.61E+00	-0.349251764	9
-0.332868271	5	3.45E+00	-0.503542834	5
-0.163660065	6	2.30E+00	-2	6
-0.467280009	8	1.24E+01	-0.307312477	8
-2	6	1.10E+03	-2	6
-0.73766306	7	2.85E+01	-0.577207099	7
-0.227275831	5	2.42E+00	-0.108508715	5
-0.233862485	7	3.61E+00	-0.413400319	7
-0.51434924	6	8.49E+00	-0.615366731	6
-0.348409509	5	3.63E+00	-0.236395223	5
-0.816489152	9	8.98E+01	-0.785542655	9
-0.269273645	13	1.41E+01	-0.523162419	13
-0.113500397	5	1.66E+00	-0.670054378	5
-0.105715686	3	1.22E+00	-0.109311672	3
-1	10	3.79E+02	0.818435522	10
-0.260377296	9	6.00E+00	-0.23462502	9
0.366482647	13	2.42E-01	1	13
-0.74398429	14	4.30E+02	-0.705932315	14
-0.407921078	9	1.23E+01	-2	9
-1	8	2.60E+02	-2	8
-0.459779133	14	6.27E+01	-0.46823926	14
-0.093858019	11	3.50E+00	0.36974984	11
0.33990272	14	2.78E-01	0.612712982	14
0.909293259	5	5.45E-02	-0.601587125	5
1	19	6.58E-05	2	19
1	10	6.14E-03	1	10
-0.77338794	20	5.62E+03	-0.12083596	20
0.116578879	16	1.41E+00	0.483672928	16
2	2	1.27E-02	3	2
1	22	8.70E-06	2	22

2	33	1.33E-09	2	33
1	6	5.85E-03	2	6
2	17	2.05E-08	3	17
-0.731505907	8	4.07E+01	0.167921547	8
0.688898935	5	1.14E-01	2	5
0.612702929	13	5.00E-02	2	13
0.123065769	6	7.93E-01	-0.175004994	6
0.467774095	13	1.26E-01	0.719700287	13
0.068826633	16	2.02E+00	-0.01189929	16
0	8	1.53E+00	0	8
-0.778969058	3	6.90E+00	-0.041675177	3
-0.841680943	11	2.36E+02	-0.114650071	11
0.872143109	7	3.87E-02	-0.094180878	7
-0.104502182	8	2.44E+00	0.158163371	8
-0.037690568	6	1.44E+00	-0.072618991	6
0.42351555	9	2.15E-01	1	9
0.148634067	5	6.91E-01	-0.242587625	5
-0.676275869	4	7.58E+00	-0.358722569	4
0.721297991	5	1.02E-01	0.53041683	5
0.489069343	3	2.64E-01	0.923229269	3
0.183072988	11	7.35E-01	0.680064977	11
-0.128611738	4	1.50E+00	-0.228234145	4
-0.017677659	3	9.73E-01	-0.028729475	3
-0.048545484	8	1.90E+00	-0.101153859	8
-0.196415431	5	2.18E+00	0	5
-0.023709089	22	7.79E+00	0.230015739	22
0	4	1.03E+00	0.361396617	4
0.310780762	31	2.44E-01	0.345481268	31
0.452898428	8	2.01E-01	0.726114804	8
0.015018323	16	3.03E+00	-0.035560531	16
-0.059183043	5	1.38E+00	-0.086560774	5
0.076718031	5	8.78E-01	0.234268931	5
0.150329957	3	6.31E-01	-1.99E-05	3
0.23846213	9	5.29E-01	0.641875118	9
0.074648044	2	7.14E-01	0.1397496	2
-0.162599014	16	1.16E+01	0.095813367	16
-0.014478931	1	7.82E-01	0.023659088	1
-0.352868298	9	9.41E+00	0.308656913	9
-0.001025777	5	1.14E+00	0.156127513	5
-0.041783262	10	2.32E+00	0.03040628	10
-0.078283993	4	1.29E+00	-0.636945304	4
0.067704642	31	6.15E+00	0.052765918	31
-0.166546227	8	3.23E+00	0.095857338	8
-0.595987481	6	1.15E+01	0.471630515	6
-0.082112658	21	1.21E+01	0.142211911	21
0.159126783	14	9.46E-01	0.117486907	14
0.468112381	15	1.08E-01	0.591265627	15

0.19395284	6	6.09E-01	0.007757016	6
0.003374429	7	1.37E+00	0.098686245	7
0.109763044	15	1.40E+00	0.046657603	15
-0.135196443	6	2.07E+00	0.068633366	6
-0.034355566	39	5.88E+01	0.110115621	39
0	5	1.13E+00	0	5
-0.096845748	4	1.37E+00	-0.117214556	4
0	1	7.61E-01	0	1
-0.052513091	12	3.12E+00	-0.063199484	12
2	5	9.15E-04	2	5
0.371073362	12	2.45E-01	0.793803268	12
1	4	1.74E-02	2	4
-1	7	1.21E+02	-0.123273016	7
-0.10401046	15	6.47E+00	-0.020382584	15
0.011696667	2	8.20E-01	0.01956367	2
-0.141130763	2	1.15E+00	-0.194707635	2
-0.093342747	5	1.55E+00	-0.244429843	5
0	2	8.41E-01	-0.021084752	2
-0.310910869	130	2.30E+12	0.173224102	130
-0.448007545	30	4.41E+03	-0.732543518	30
-0.000683897	9	1.69E+00	-0.047526976	9
0.026069282	19	3.65E+00	-0.118215043	19
0.341625249	47	9.90E-02	0.155667618	47
1	15	4.09E-04	0.266160555	15
-0.282688056	6	3.59E+00	0.144454603	6
-0.00115629	19	4.62E+00	0.071592646	19
0.024181598	11	1.80E+00	0.102642391	11
0.149346064	28	1.83E+00	0.721088593	28
1	9	6.38E-03	2	9
0.007002554	3	9.13E-01	0.007225056	3
0.334583654	6	3.61E-01	1	6
0.024513834	10	1.64E+00	0.090186681	10
0.004448778	3	9.19E-01	0.095531203	3
0.101976506	10	1.09E+00	0.09064454	10
0	3	9.29E-01	-0.010040284	3
0.20370525	25	8.88E-01	0.124352726	25
0.271119171	12	4.46E-01	0.347445351	12
-0.189465641	7	3.01E+00	-0.109290017	7
0.356178413	6	3.33E-01	0.108751623	6
-0.513131336	9	2.05E+01	-0.187873746	9
-1	7	1.34E+02	-0.810695414	7
-1	3	1.76E+01	0.349641074	3
-0.052861396	1	8.38E-01	-0.087302519	1
0.084657352	11	1.28E+00	-0.077345349	11
-0.05649953	61	1.21E+03	0.065269123	61
-0.358012466	7	6.01E+00	-0.530944069	7
-0.102490257	8	2.42E+00	0	8

0.119277707	53	1.02E+01	0.715263066	53
-0.173541591	5	2.02E+00	-0.326449991	5
-0.404609713	7	7.28E+00	-0.480006851	7
-1	6	6.40E+01	-0.3192956	6
-1	3	2.02E+01	-1	3
-0.086235978	2	1.02E+00	0	2
-0.386027242	8	8.63E+00	-0.69058817	8
0.236180672	13	5.56E-01	0.328787124	13
1	6	6.41E-03	2	6
0.100738148	6	8.61E-01	-0.287470295	6
-1	10	6.42E+02	-0.147057112	10
-0.121962249	19	1.32E+01	-0.031899426	19
-0.476750211	15	9.32E+01	-0.770307792	15
0.172392903	62	4.37E+00	0.608941136	62
-0.304175955	8	5.98E+00	0.246857545	8
-0.000159915	3	9.30E-01	0	3
0.253109931	3	4.84E-01	0	3
0.257815026	4	4.79E-01	0.761610362	4
0.387511473	2	3.60E-01	-0.609026217	2
0.019617469	1	7.35E-01	0	1
0.19551691	2	5.48E-01	-0.125617861	2
2	5	5.71E-03	2	5
3	9	5.00E-06	4	9
0.053623272	1	6.91E-01	-0.13147749	1
-0.001903372	5	1.14E+00	0.373120364	5
-0.012686738	2	8.65E-01	0.060615419	2
1	16	5.56E-05	2	16
-0.025261351	1	7.97E-01	0.083150655	1
-0.155588025	5	1.91E+00	0.180100889	5
0.601038189	6	1.34E-01	0.168450836	6
1	9	7.00E-03	2	9
0.966248161	15	3.04E-03	1	15
-0.534695606	14	1.04E+02	0.638232584	14
-0.062487323	20	8.91E+00	0.705755166	20
-0.404367015	5	4.37E+00	-0.641191539	5
-0.812761391	14	6.86E+02	-0.090441242	14
-1	8	1.48E+02	-0.011348	8
-0.276546529	21	7.62E+01	-0.509070099	21
-0.017883481	5	1.20E+00	0.229732795	5
0.286790747	13	4.02E-01	1	13
0.133181887	19	1.44E+00	0.628871237	19
0	1	7.61E-01	0	1
-0.114827956	6	1.92E+00	0.160631371	6
0.084174602	11	1.28E+00	0.194097083	11
0.451680626	34	3.03E-02	0.652265778	34
0	1	7.61E-01	0	1
-0.804388551	1	3.27E+00	-0.741406966	1

-0.034984096	8	1.79E+00	0.063600557	8
-1	3	2.48E+01	-2	3
-0.995120555	5	3.14E+01	-0.182422896	5
-0.035455255	1	8.12E-01	-7.99E-05	1
0.381455049	12	2.30E-01	0.375909341	12
-0.049088662	12	3.06E+00	-0.18487968	12
1	3	4.25E-02	-0.021288854	3
0.171620226	12	8.12E-01	0.143203417	12
0.114688111	11	1.08E+00	0.737047833	11
0.988403741	50	1.54E-07	2	50
-0.558756943	3	3.92E+00	-0.020030081	3
-0.002960301	14	2.84E+00	-0.166356548	14
-0.592958816	13	1.12E+02	-0.517280024	13
-0.376609074	12	2.19E+01	-0.742086471	12
-0.229549787	7	3.55E+00	0	7
-0.048244444	6	1.50E+00	0	6
0.087752592	13	1.44E+00	0.047842095	13
0	5	1.13E+00	-0.197587924	5
-0.308255046	8	6.09E+00	-0.011590482	8
0.0347175	7	1.20E+00	0	7
-1	9	4.84E+02	-1	9
-0.491341636	4	4.39E+00	-0.041470374	4
-0.157256851	7	2.64E+00	-0.462452603	7
-0.363122576	9	9.89E+00	0.124758077	9
0.989093313	31	3.01E-05	1	31
0.946981414	9	1.68E-02	2	9
0.222506588	7	5.56E-01	0.034960645	7
-0.023021418	4	1.10E+00	1	4
-0.429087645	42	8.16E+04	-0.319987526	42
-0.673654751	7	2.19E+01	-2	7
-0.255939282	8	4.82E+00	-0.02066154	8
-0.111913258	12	4.46E+00	0.035499112	12
-0.040849348	7	1.64E+00	-0.341822475	7
-0.584302839	5	7.98E+00	-0.098490266	5
0.586191053	26	1.18E-02	0.907704849	26
0.081902301	64	4.86E+01	0.203182936	64
1	6	6.39E-03	2	6
-0.084270786	20	1.09E+01	-0.070823273	20
0.126405452	22	1.78E+00	0.207166084	22
0.915631883	7	3.24E-02	1	7
0.150846678	13	9.59E-01	0.042704961	13
0	6	1.25E+00	-0.236004547	6
1	21	2.65E-04	0.984496502	21
0.725787797	34	5.81E-04	1	34
0.099775372	16	1.60E+00	1	16
0.112645311	12	1.16E+00	0.112063584	12
0.0552315	19	2.83E+00	0.193172969	19

0.321040601	29	2.23E-01	0.412720687	29
-0.21952631	6	2.84E+00	-0.425066891	6
0.262284607	66	4.55E-01	0.090856965	66
0.011428048	2	8.20E-01	0.001003081	2
-0.140432166	6	2.11E+00	-0.014841959	6
0.514749768	9	1.38E-01	0.881047355	9
2	4	3.55E-03	2	4
0.003155075	8	1.51E+00	0.005049656	8
0.02175367	20	4.15E+00	-0.030840512	20
-1.09E-05	12	2.28E+00	-0.045244509	12
0.148384708	4	6.62E-01	-0.811263169	4
0.009999987	37	2.35E+01	0.48724667	37
0.115992026	18	1.58E+00	-0.207301625	18
0.393717757	55	2.40E-02	0.815187082	55
-0.045312326	24	1.22E+01	-0.088842103	24
0.082006705	115	1.58E+03	0.386677085	115
0.413422374	4	3.02E-01	-0.364778744	4
2	39	6.73E-15	3	39
0.193660981	16	7.88E-01	0.185180756	16
-0.182665886	11	5.77E+00	1	11
0.225680077	9	5.63E-01	0.099421935	9
0.167689399	12	8.31E-01	0.094303425	12
-0.25584938	8	4.82E+00	-0.098636699	8
-0.230053618	2	1.39E+00	-8.08E-05	2
0.150325547	19	1.24E+00	0.3223521	19
0.090840672	20	2.22E+00	0.401211264	20
-0.178986145	7	2.88E+00	0.392841798	7
-0.131112816	12	5.01E+00	-0.026063693	12
-0.079008198	9	2.48E+00	0.001356082	9
-0.227836496	5	2.43E+00	0.392581076	5
0.106471945	6	8.43E-01	0.203962138	6
0.209870601	15	6.84E-01	0.632078496	15
0.559047053	9	1.11E-01	0.844088263	9
2	11	1.28E-05	3	11
0.202761149	8	6.16E-01	2	8
-0.234821703	10	6.40E+00	1	10
0.022396731	1	7.31E-01	0.199527717	1
0.000467692	6	1.25E+00	0.059256404	6
-0.020055992	2	8.79E-01	-0.009765552	2
-0.072693317	10	2.73E+00	0.714544249	10
0.266055984	5	4.67E-01	0.66803155	5
1	25	5.31E-06	2	25
0.472783061	13	1.22E-01	1	13
-0.370632127	15	4.36E+01	-1	15
0.766822276	6	7.23E-02	-0.038864566	6
2	15	3.26E-05	2	15
2	4	5.70E-03	2	4

2	3	1.62E-03	3	3
0.796954806	23	1.98E-03	1	23
-0.024825486	11	2.37E+00	-0.047329407	11
-0.000276816	2	8.42E-01	0.040605952	2
0.011927524	27	8.82E+00	0.641839025	27
-0.299228433	6	3.81E+00	-0.297657368	6
-0.792780649	2	4.78E+00	-1	2
1	16	1.55E-03	1	16
0.349659054	10	2.98E-01	0.591584797	10
0.193561575	5	5.94E-01	0	5
0.429573982	22	9.03E-02	0.957958345	22
-0.234376634	15	1.64E+01	-0.053802134	15
0.051295226	7	1.12E+00	-0.223552501	7
-0.02012807	3	9.79E-01	-0.02334828	3
1	18	2.80E-04	2	18
-0.415921753	1	1.62E+00	-0.23662621	1
-0.385448034	12	2.31E+01	0.230196269	12
2	22	5.70E-10	3	22
0.216245415	13	6.31E-01	0.728789312	13
0.050781547	8	1.22E+00	0.524914371	8
3	46	4.22E-24	4	46
0.259218698	8	4.78E-01	0.908675798	8
-0.334669669	11	1.36E+01	-0.14609188	11
1	138	5.05E-20	2	138
0.245665166	13	5.23E-01	0.899395467	13
0.909944819	78	7.44E-10	1	78
-0.31428904	8	6.26E+00	0.007327211	8
-0.13409949	7	2.40E+00	-0.676162694	7
-0.3413978	6	4.46E+00	-0.417105729	6
0.086832626	2	6.95E-01	0	2
1	17	1.72E-04	2	17
-0.123723726	7	2.30E+00	0.002589233	7
0.132562512	28	2.25E+00	0.278252903	28
0.758434565	13	1.97E-02	2	13
-0.131407528	37	2.12E+02	-0.051009731	37
0.571077318	7	1.33E-01	0.676543423	7
-0.127320755	28	5.25E+01	-0.077463278	28
0.409710953	14	1.73E-01	0.10961908	14
0.41898145	11	1.95E-01	0.070649631	11
-2	5	3.36E+02	-0.555540925	5
0.356189436	5	3.45E-01	0.667364964	5
1	19	5.14E-04	0.934525759	19
1	5	1.24E-02	1	5
0.633610867	47	3.45E-04	0.880142086	47
0.486939591	5	2.23E-01	0.042336152	5
0.16144973	5	6.62E-01	-0.073412247	5
-0.333598687	9	8.57E+00	-0.515572809	9

-0.331253251	7	5.39E+00	0.112724954	7
0.174369957	4	6.13E-01	0.293081357	4
-0.843940487	10	1.57E+02	-0.555949249	10
-0.174419684	12	6.50E+00	-1	12
0.751585742	8	5.26E-02	0.835251426	8
-0.121823386	1	9.49E-01	0.023187009	1
-0.135743028	3	1.32E+00	-0.24068785	3
-0.251018699	10	6.97E+00	-0.028494509	10
-0.693796298	7	2.38E+01	0.228068525	7
0.012375106	10	1.75E+00	0.892498297	10
0.872965524	6	4.87E-02	0.365691983	6
0.21875994	7	5.64E-01	0.200015163	7
0.142313861	3	6.44E-01	0.202748498	3
0.026639035	4	9.49E-01	0.444970759	4
0.465837009	15	1.09E-01	0.555408379	15
0.624176708	7	1.07E-01	-0.187455088	7
0.297476544	6	4.14E-01	0.393857586	6
0.31706553	6	3.85E-01	0.336239648	6
1	30	2.95E-06	2	30
0.998021877	13	4.26E-03	2	13
0.367535082	18	1.96E-01	0.444841975	18
-0.406738042	8	9.48E+00	0.606748452	8
1	4	4.46E-02	0.239900642	4
0.601999481	21	1.89E-02	0.86002894	21
0.014878098	11	1.90E+00	0.677160547	11
-0.304288587	9	7.43E+00	0.160824019	9
0.257521196	12	4.84E-01	-0.008994535	12
-0.049296922	7	1.69E+00	0.201469236	7
0	1	7.61E-01	0	1
-0.06135866	4	1.23E+00	-0.062894236	4
-0.843924859	5	1.90E+01	0.342716743	5
-0.670447642	8	3.09E+01	-0.579724934	8
0.04205022	6	1.07E+00	0.439843388	6
0.054322731	9	1.30E+00	-0.068100165	9
0.317047832	16	3.11E-01	0.353355916	16
0.081965101	2	7.03E-01	0.025806625	2
-0.092016046	5	1.54E+00	-0.4986202	5
-0.239748847	10	6.57E+00	0.500540764	10
0.564182925	11	8.60E-02	0.027104477	11
-0.804796969	22	1.69E+04	-0.902539353	22
0.052382073	8	1.21E+00	0.028655354	8
0.110451828	14	1.31E+00	0.264443958	14
0.486253963	3	2.66E-01	0.07878636	3
0.529486798	14	7.69E-02	0.899255548	14
-0.08860593	6	1.74E+00	0.207385511	6
-0.288213389	4	2.41E+00	-0.407067883	4
-0.291638619	6	3.71E+00	-0.135314381	6

-0.164446246	31	1.34E+02	0.24744695	31
0.188455026	7	6.39E-01	0.814691864	7
0.448722393	6	2.36E-01	-0.484687337	6
0.293004929	54	2.33E-01	0.597677166	54
0.370180505	11	2.56E-01	0.179538637	11
1	17	7.28E-05	2	17
0.124553821	14	1.20E+00	0.011528052	14
0.105668274	8	9.52E-01	0.307981196	8
-0.014345741	43	6.45E+01	0.273900404	43
-0.373860809	16	5.69E+01	0.173814057	16
-0.017013198	3	9.71E-01	-0.055436276	3
0.086261458	14	1.55E+00	-0.092964909	14
-0.094446113	6	1.78E+00	-0.315296213	6
-0.139077967	7	2.45E+00	-0.126678602	7
0.149291114	6	7.19E-01	0.90073089	6
0.012870753	4	9.88E-01	0.094913663	4
0.12130253	3	6.80E-01	0.02903733	3
-0.094822236	4	1.36E+00	0.479894928	4
-0.346665881	3	2.27E+00	-0.19699423	3
-0.158451491	4	1.64E+00	-0.25048125	4
0.204464362	10	6.38E-01	-0.921679361	10
-0.206107881	16	1.61E+01	0.233103099	16
-0.841681958	4	1.24E+01	-0.381171259	4
0.403534694	4	3.11E-01	-0.712523695	4
-0.236211026	4	2.06E+00	-0.033655415	4
0.304239762	18	3.31E-01	0.338921801	18
0.485980716	8	1.73E-01	0.97051204	8
-0.198917641	4	1.85E+00	0.019744102	4
-0.07342395	4	1.28E+00	-0.116322769	4
0	2	8.41E-01	-0.166510433	2
-0.003934135	4	1.04E+00	-0.644359728	4
-0.539474319	3	3.73E+00	0.484784997	3
-0.25352611	7	3.92E+00	0.172432201	7
0.035550079	7	1.20E+00	0.453799852	7
-0.605873967	5	8.57E+00	-0.334807491	5
-0.078700959	11	3.21E+00	-0.182553987	11
0.097471413	15	1.53E+00	0.164536211	15
0.037043132	18	3.04E+00	0.071642475	18
0.153172389	4	6.53E-01	0.946104965	4
0.782193382	7	5.59E-02	0.034913849	7
-0.063660169	4	1.24E+00	0.121721439	4
-0.208286148	16	1.63E+01	0.527444804	16
-0.007916411	3	9.48E-01	0.012298793	3
-0.317507314	5	3.27E+00	-0.157880155	5
0.392763207	9	2.50E-01	2	9
0.083781483	3	7.49E-01	-0.683020155	3
-0.341819632	17	5.62E+01	-0.40984006	17

-0.229072781	12	9.03E+00	-0.076252031	12
-1	9	1.73E+03	-2	9
-0.109815753	3	1.23E+00	-0.110192539	3
-1	3	3.48E+01	-0.647120207	3
-1	8	1.42E+02	-0.73017417	8
-0.179715216	9	4.05E+00	0.203371413	9
-1	2	9.42E+00	0.694785373	2
-0.110535688	8	2.51E+00	-0.143378331	8
-0.012875124	3	9.61E-01	0.361611813	3
-0.237580303	12	9.50E+00	0.345687689	12
-0.001345785	4	1.03E+00	0	4
0.42545045	13	1.66E-01	1	13
0.057350686	1	6.86E-01	0.171103626	1
0.521574533	13	8.96E-02	0.474793411	13
-0.123368733	14	6.41E+00	0.008342621	14
0.094289125	9	1.07E+00	0.706646823	9
-0.036759799	3	1.02E+00	0.001695169	3
-0.369445263	4	3.06E+00	-1	4
0.054413964	14	1.92E+00	0.084660855	14
0.53519216	8	1.39E-01	-0.215063909	8
0.13120958	12	1.03E+00	0.755112462	12
-0.120046832	4	1.46E+00	-0.10528037	4
-0.169097335	33	1.98E+02	-0.204958115	33
-0.061389719	17	6.10E+00	0.165219895	17
-0.82331313	6	2.68E+01	0.006414834	6
0.239606625	23	5.89E-01	0.39176331	23
-0.0420698	1	8.22E-01	0.035508714	1
0.03057746	2	7.87E-01	-0.066875971	2
0.406232025	14	1.77E-01	0.075086975	14
0.180552434	9	7.02E-01	0.118406944	9
0.361367321	9	2.91E-01	0.013486601	9
-0.000343815	1	7.62E-01	-3.50E-05	1
-2	7	6.96E+02	0.592246869	7
-0.339259263	4	2.80E+00	-0.243124843	4
-0.487587983	5	5.78E+00	-0.854512891	5
-2	4	7.26E+02	-2	4
-0.074936504	1	8.72E-01	-0.042232036	1
0.365104617	3	3.63E-01	0.050233997	3
0.361472658	12	2.59E-01	0.664952282	12
-0.800934414	3	7.30E+00	-0.342344889	3
-0.037954741	1	8.16E-01	-0.062893326	1
0.332608385	3	3.95E-01	-0.852784009	3
-1	2	1.38E+01	-2	2
-0.225188428	6	2.90E+00	-0.180698667	6
0.451296378	25	5.86E-02	0.43283153	25
-2	7	1.07E+03	-1	7
-0.08554784	6	1.72E+00	-0.315238027	6

-0.177833593	6	2.43E+00	-0.190106293	6
0.305859762	38	2.31E-01	0.327441292	38
0.07958632	16	1.86E+00	2	16
0.574630612	4	1.88E-01	0.36615657	4
0.071691382	7	1.03E+00	-0.014541972	7
-0.00019158	5	1.13E+00	-0.000660873	5
-0.783480376	6	2.31E+01	-0.480736842	6
-0.281415875	10	8.17E+00	-0.593722255	10
-0.333493948	4	2.75E+00	-0.704701824	4
-0.025413781	1	7.97E-01	-0.042232036	1
-0.496332674	3	3.33E+00	-0.012965976	3
-0.379461796	4	3.15E+00	-0.000733046	4
-0.031328992	1	8.06E-01	0	1
-0.007831931	5	1.16E+00	0	5
-0.631130369	15	2.81E+02	-0.209646762	15
-0.294010821	3	1.98E+00	-0.188792708	3
-0.004778177	6	1.28E+00	-0.005373023	6
0.077799802	12	1.43E+00	-0.062013156	12
0.284911084	35	3.32E-01	0.420744621	35
-0.000637841	13	2.53E+00	0.12312468	13
0.275009499	8	4.46E-01	1	8
0.302406222	8	3.94E-01	0.47934542	8
0.418992611	13	1.73E-01	0.164385588	13
0	2	8.41E-01	0	2
-0.392892748	4	3.28E+00	1	4
-0.044532295	2	9.27E-01	-0.147529088	2
-0.000992387	4	1.03E+00	-0.677595412	4
0.015060908	5	1.08E+00	-0.682578346	5
-0.713588836	4	8.46E+00	-0.7741448	4
0	4	1.03E+00	-0.056261329	4
-0.690727704	6	1.64E+01	-0.429075723	6
-0.055590638	1	8.42E-01	0	1
-0.525207281	13	7.23E+01	-1	13
-1	9	4.58E+02	-2	9
0.221911235	5	5.41E-01	-0.239295054	5
-0.593789608	10	4.21E+01	-0.546327387	10
-0.60374016	2	3.16E+00	-0.063830583	2
-0.998892607	5	3.18E+01	-0.276825772	5
-0.580563253	6	1.09E+01	-0.234486666	6
-0.378279829	6	5.12E+00	-0.736269625	6
-0.555144181	5	7.24E+00	-2	5
-0.246475371	2	1.44E+00	-0.066086451	2
-1	4	2.18E+01	-0.237981811	4
-0.485160776	3	3.24E+00	-1	3
0.298680944	5	4.18E-01	1	5
0.318919244	2	4.18E-01	-0.465532426	2
-0.337227447	6	4.39E+00	-1	6

-0.373645145	42	3.10E+04	-0.061532963	42
-0.849241979	4	1.26E+01	-1	4
-0.052046647	5	1.35E+00	-0.08054933	5
0.277288119	11	4.33E-01	-0.122119175	11
1	57	3.26E-10	2	57
-0.191656325	27	9.63E+01	-0.059663823	27
-0.155848476	14	7.99E+00	-0.273772082	14
-0.1098141	2	1.07E+00	-0.103030291	2
-0.600142145	11	6.05E+01	0.062720276	11
-0.796356616	7	3.63E+01	-0.324426723	7
-1	7	1.31E+02	-0.813153997	7
-0.573459266	6	1.06E+01	-0.135592046	6
-0.504617555	8	1.47E+01	0.084551496	8
-1	10	2.05E+03	-0.538849375	10
-0.587076453	9	2.94E+01	-0.680013241	9
-2	11	1.86E+06	-2	11
-1	2	1.67E+01	-1	2
-0.044184576	1	8.25E-01	-0.073114059	1
-0.52243923	15	1.29E+02	-0.113442856	15
-1	9	3.98E+02	-0.861573951	9
-1	10	8.87E+02	-0.756793659	10
0.175927751	11	7.66E-01	-0.097263335	11
-0.183707412	13	8.15E+00	0.619181525	13
-0.817066804	8	5.97E+01	-1	8
-2	7	7.38E+02	-1	7
-1	12	1.06E+03	-0.770201701	12
-1	3	2.58E+01	-0.471855012	3
-0.493229121	4	4.41E+00	-1	4
-0.571170818	4	5.56E+00	-0.074164676	4
-0.453961609	7	8.91E+00	-0.3333984	7
-1	8	3.36E+02	-0.783168854	8
-0.849938562	4	1.27E+01	0.307399367	4
-0.124642702	5	1.72E+00	-0.152345973	5
-0.657193753	7	2.05E+01	-0.959646098	7
0.285417083	7	4.29E-01	-0.313472954	7
-0.264353249	8	5.00E+00	-0.003860645	8
-0.609330897	8	2.35E+01	-0.400529879	8
-0.46563145	17	1.50E+02	-0.416561567	17
-0.409591314	8	9.60E+00	-0.0952877	8
-0.224139884	9	5.03E+00	-1	9
-0.555950246	3	3.89E+00	-0.452270086	3
-0.965734802	3	1.12E+01	-1	3
-0.935475847	5	2.58E+01	-0.873812711	5
0	9	1.69E+00	0	9
0	9	1.69E+00	0	9
-0.023385493	9	1.89E+00	-0.019685094	9
-0.619776343	8	2.46E+01	-1	8

0.228271559	6	5.36E-01	-0.1367292	6
-0.253140748	17	2.78E+01	-0.496047175	17
-1	3	1.33E+01	-0.64080457	3
-0.949881951	3	1.07E+01	-0.939741443	3
-0.147444095	3	1.36E+00	-1	3
-0.224600304	4	1.99E+00	-0.008473898	4
-0.752160604	3	6.44E+00	-0.566165508	3
-0.425499881	2	2.14E+00	-0.168392549	2
-1	13	3.34E+03	-0.280303744	13
-0.440039374	4	3.77E+00	-0.206925583	4
-0.971697315	3	1.13E+01	0.806655161	3
-0.000180128	2	8.42E-01	0	2
-0.154678374	5	1.90E+00	-0.337977087	5
-0.206108641	3	1.58E+00	-0.257156072	3
0.335169073	14	2.87E-01	0.631091349	14
-0.244258464	8	4.57E+00	-0.427434436	8
-0.21039187	7	3.28E+00	-0.14440812	7
-0.189280006	7	3.01E+00	-0.457885088	7
-0.517262355	6	8.58E+00	-0.638592791	6
-0.080645197	4	1.30E+00	-0.325151797	4
0	3	9.29E-01	0	3
0	2	8.41E-01	0.021099677	2
0	10	1.87E+00	0.208620068	10
0.025360951	8	1.36E+00	-0.134445639	8
0.03829838	7	1.18E+00	0.148286936	7
2	120	4.87E-34	2	120
0.424539848	6	2.58E-01	0.735575161	6
-6.38E-05	3	9.29E-01	0	3
-0.057249354	5	1.37E+00	0	5
0.086525295	12	1.35E+00	0.002861816	12
0.364577876	43	7.43E-02	0.437069623	43
0.562351497	39	3.45E-03	0.660369866	39
-1	13	1.73E+03	-0.6742141	13
-0.466868731	14	6.58E+01	-1	14
-0.712103227	13	2.39E+02	-0.880002355	13
-0.103374526	4	1.39E+00	0	4
-0.489915963	7	1.03E+01	-0.467431872	7
-0.191548531	2	1.28E+00	-0.148539799	2
0.113413146	9	9.73E-01	-0.323894635	9
-0.435920946	15	6.96E+01	-0.399943846	15
-0.365682882	3	2.38E+00	-0.770211764	3
-0.408200303	18	1.23E+02	-0.422400913	18
0.230768852	4	5.19E-01	0.050476089	4
0.002848012	3	9.23E-01	0.011818168	3
0	4	1.03E+00	0.20485107	4
0.01666324	4	9.77E-01	0.019852162	4
0.303163831	10	3.80E-01	0.705552953	10

0.097830927	25	2.84E+00	0.462304138	25
3	11	7.48E-07	3	11
0.18607372	33	1.35E+00	0.13870302	33
0.021948637	7	1.26E+00	0.020325152	7
0.191845054	5	5.98E-01	0.317184897	5
0.024764343	1	7.28E-01	0	1
0.149479109	15	1.05E+00	0.08590066	15
-0.071641145	3	1.12E+00	0.148041945	3
-0.009253326	1	7.74E-01	0	1
-0.008642135	2	8.57E-01	0	2
0.070220718	7	1.04E+00	0	7
-0.193216493	3	1.53E+00	-0.45223626	3
-0.008489069	5	1.17E+00	-0.085570207	5
-0.518927646	7	1.16E+01	-0.469468361	7
-0.916788993	4	1.54E+01	-0.920747055	4
-0.778835453	3	6.90E+00	-2	3
-0.9271704	5	2.51E+01	-0.229476287	5
-0.121429787	1	9.49E-01	0.051921024	1
0.247971617	13	5.15E-01	0.232298469	13
0.007951662	11	1.97E+00	0.762729531	11
-0.005585865	18	4.34E+00	0.136866466	18
0.061407763	7	1.08E+00	-0.166658911	7
0.060628111	30	6.26E+00	0.214329284	30
-0.687460619	6	1.62E+01	-0.335965317	6
-0.445569864	11	2.53E+01	-0.251821411	11
-0.57473824	3	4.08E+00	-0.263241649	3
0	51	1.11E+02	0	51
0.20849308	8	6.00E-01	0.51278754	8
1	6	5.52E-03	-0.020370512	6
-0.223477923	6	2.88E+00	-0.170540272	6
-0.195554436	3	1.54E+00	-0.578665671	3
0.213326245	26	8.14E-01	0.268208324	26
0.284328877	10	4.20E-01	0.505940711	10
-0.25747487	14	1.59E+01	0.050803291	14
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
0.109882645	8	9.34E-01	0.112154882	8
0.030208436	1	7.21E-01	0.025679121	1
-0.002442439	5	1.14E+00	0.160951309	5
-1	5	9.98E+01	-0.33792652	5
-0.570507418	7	1.44E+01	-0.381588846	7
-0.589140256	7	1.55E+01	-0.003688251	7
-1	4	5.75E+01	-2	4
-0.403989269	6	5.63E+00	-0.340678969	6
0	3	9.29E-01	0	3
-0.017836542	1	7.86E-01	-0.029691723	1
-0.191923575	4	1.81E+00	-0.295051529	4

-0.02137754	1	7.91E-01	0	1
-0.002339672	3	9.35E-01	-0.274476805	3
-1	4	6.95E+01	-1	4
0	4	1.03E+00	0	4
-1	13	2.57E+03	-1	13
-0.82999513	18	4.08E+03	-0.806623448	18
-0.20285191	4	1.87E+00	-0.016253331	4
-0.294003742	8	5.72E+00	-0.479365275	8
-0.522534155	4	4.81E+00	-1	4
-1	7	4.24E+02	-0.862719561	7
-0.259563092	12	1.08E+01	0	12
-0.019714632	4	1.09E+00	-0.06496377	4
-0.325503403	10	1.03E+01	-0.27511798	10
0.207901073	18	7.36E-01	-0.206385323	18
-1	36	8.65E+09	0.612352509	36
-1	12	3.79E+03	-1	12
-1	8	1.20E+03	-0.525938808	8
-1	12	1.02E+03	-0.692656464	12
-0.791382353	10	1.19E+02	-0.36529961	10
-0.325478594	6	4.21E+00	-0.479299938	6
-0.857383233	4	1.29E+01	0	4
-0.668649067	2	3.64E+00	-0.062397488	2
-0.438307108	4	3.75E+00	-0.055840957	4
-0.127449014	4	1.50E+00	0	4
0	2	8.41E-01	0	2
-0.473406568	18	2.11E+02	-0.941415645	18
-0.870700221	10	1.80E+02	0.645452325	10
-0.4592454	3	3.03E+00	-1	3
-2	7	5.20E+03	-0.87850367	7
-2	7	1.21E+03	-0.775873221	7
-0.908884061	4	1.51E+01	-0.698108276	4
-1	4	2.22E+01	-2	4
-0.763666183	6	2.15E+01	0.114119747	6
-0.574323879	4	5.61E+00	0.4116676	4
0.062499144	7	1.07E+00	-0.298073877	7
0.583023114	6	1.43E-01	1	6
0.051442867	1	6.94E-01	0.029013039	1
-0.237500098	4	2.07E+00	-0.007837177	4
0.407330715	16	1.57E-01	0.898967778	16
1	7	2.00E-02	-0.350828844	7
-0.720216987	7	2.66E+01	-0.405134873	7
-1	55	8.52E+14	-0.974374612	55
-1	6	1.27E+02	-1	6
-0.244848562	9	5.56E+00	-0.185223584	9
-0.469283919	14	6.69E+01	0.035086645	14
-1	3	1.89E+01	-0.675217279	3
-0.940174082	4	1.65E+01	-1	4

-0.959585737	9	1.80E+02	-1	9
-0.728424378	6	1.88E+01	-0.233539023	6
-0.205604051	4	1.89E+00	-0.027722683	4
-1	9	3.11E+02	-1	9
-1	21	3.14E+06	-2	21
-1	8	2.59E+02	-1	8
0	1	7.61E-01	0	1
-0.911542334	6	3.72E+01	-0.925018242	6
-0.624160106	4	6.50E+00	-0.568212464	4
-0.913146037	4	1.53E+01	-0.487217561	4
-0.954859633	6	4.37E+01	-0.178341047	6
-0.103868609	5	1.60E+00	-0.781070075	5
-1	13	3.38E+04	-1	13
-1	5	3.83E+01	-0.443869433	5
-0.210948183	5	2.29E+00	-1	5
-1	7	4.45E+02	-0.990446013	7
-0.893062458	3	9.26E+00	-0.645533817	3
-0.795359955	5	1.61E+01	-0.396614516	5
2	10	4.68E-05	3	10
0.731572601	6	8.24E-02	-0.029712449	6
-1	12	4.09E+03	-1	12
-0.132935114	13	5.89E+00	-0.629704123	13
-0.313868241	11	1.21E+01	-1	11
-0.053804937	6	1.53E+00	-0.78155577	6
-0.345421776	7	5.71E+00	-0.011819214	7
-0.078470382	4	1.29E+00	0	4
-0.110321519	5	1.64E+00	-0.24485249	5
-0.350912781	10	1.18E+01	-1	10
-0.115559877	3	1.25E+00	-1	3
-1	3	4.10E+01	0.728826568	3
-2	3	2.08E+02	-2	3
-2	4	1.40E+02	-1	4
-0.525039056	12	5.35E+01	-0.610702627	12
-0.017123083	4	1.08E+00	-0.455850616	4
-0.181721849	9	4.09E+00	-0.353783787	9
0.108111037	19	1.79E+00	0.10929881	19
-0.123465024	8	2.66E+00	0.113266583	8
0.105822712	13	1.28E+00	0.142973697	13
0.181224394	4	6.01E-01	-0.011359782	4
0.133005791	11	9.75E-01	0.023261434	11
-0.923793777	5	2.48E+01	-0.634630038	5
-0.261844617	6	3.32E+00	-0.659171549	6
-0.890394887	2	5.92E+00	-0.50661992	2
-0.830764656	9	9.63E+01	-2	9
-0.118906623	6	1.95E+00	-0.498876711	6
-1	5	3.99E+01	-0.462915421	5
-0.055359303	2	9.50E-01	0.275494452	2

-0.224749626	6	2.89E+00	-0.646560158	6
-0.297979409	4	2.48E+00	-0.705984968	4
-0.080429505	7	1.93E+00	0.043328094	7
0.085507441	16	1.78E+00	-0.023401103	16
-0.72559918	4	8.77E+00	0	4
-0.1689368	5	1.99E+00	0.678170152	5
-0.20422881	7	3.20E+00	-0.436978661	7
-0.389847339	14	3.90E+01	-0.360211158	14
0.055381969	7	1.10E+00	-0.4995547	7
-0.244831846	6	3.12E+00	-0.075722527	6
-1	9	1.07E+03	-2	9
-2	7	2.50E+03	-3	7
-0.96003308	10	2.88E+02	-0.782336213	10
-1	2	9.48E+00	-1	2
-1	10	9.03E+02	-0.836542856	10
-1	3	2.44E+01	0.608964088	3
-0.290531578	7	4.56E+00	-0.302884335	7
-0.031016809	1	8.05E-01	0	1
-0.393183821	6	5.41E+00	-0.779315766	6
-0.237621527	3	1.71E+00	-0.333083031	3
-0.258957798	6	3.28E+00	-0.048601393	6
-1	9	3.07E+02	-1	9
-0.141222971	2	1.15E+00	-0.017254045	2
-0.062944348	3	1.09E+00	0	3
0	3	9.29E-01	0	3
0	2	8.41E-01	0	2
-0.097577779	1	9.09E-01	-0.055179976	1
-0.041491249	9	2.07E+00	-0.489673792	9
0	3	9.29E-01	0	3
-0.028343473	2	8.95E-01	0	2
-0.295724552	8	5.76E+00	0.261603544	8
0.006959947	6	1.22E+00	-0.224068383	6
0.017891642	4	9.74E-01	0	4
0.570486483	11	8.30E-02	-0.037544811	11
0	1	7.61E-01	0	1
-0.130668563	2	1.12E+00	-0.346409209	2
-1	7	1.26E+02	-1	7
-0.158034036	5	1.92E+00	-0.048511175	5
-0.424140872	6	6.07E+00	-0.223239803	6
-0.006499267	5	1.16E+00	-0.471826561	5
-0.51155004	5	6.26E+00	-0.014374759	5
-1	9	1.22E+03	-0.275696766	9
-0.624904173	5	9.13E+00	-0.273939261	5
-0.654731906	13	1.66E+02	-0.4185002	13
-0.047256952	5	1.33E+00	-0.111422652	5
-0.019102182	1	7.88E-01	0	1
0	1	7.61E-01	0	1

-1	7	1.04E+02	-0.495636744	7
-0.590493918	7	1.56E+01	-0.269119586	7
-0.01163407	5	1.18E+00	0	5
-1.06E-05	43	5.00E+01	0	43
-0.000503806	43	5.04E+01	-0.000839233	43
-0.019315823	3	9.77E-01	0.00074951	3
0.00164328	2	8.38E-01	0	2
0.327863653	5	3.80E-01	0.012948197	5
0.272360851	3	4.61E-01	0.536604024	3
-0.224412117	3	1.66E+00	-0.203865583	3
-0.001233868	42	4.62E+01	0.188300517	42
-0.087056053	1	8.91E-01	-0.058784672	1
-0.809746752	5	1.69E+01	-0.852909194	5
-0.919533131	6	3.83E+01	-0.666567899	6
-0.425591084	10	1.74E+01	-0.376873277	10
-0.016932202	2	8.73E-01	0.137581603	2
-0.531547573	10	3.04E+01	-0.769135435	10
-0.054921523	3	1.07E+00	-0.085042921	3
-0.724095648	3	5.99E+00	-0.544857231	3
-0.165990496	8	3.22E+00	-0.005001599	8
-0.617987382	9	3.42E+01	0.345814404	9
-0.105172946	3	1.22E+00	-0.820595355	3
-0.000354889	4	1.03E+00	-0.399314234	4
-0.004265799	4	1.04E+00	-0.012374842	4
-0.038032527	2	9.14E-01	-0.445445079	2
0.106917395	7	8.93E-01	-0.002150496	7
-0.548670857	5	7.08E+00	-0.507515125	5
-2	3	1.48E+02	-2	3
-1	7	2.93E+02	-2	7
-0.064171507	2	9.68E-01	-0.021450377	2
-0.033264647	1	8.09E-01	-0.699391135	1
-0.531067663	12	5.55E+01	-1	12
-0.860663479	20	1.24E+04	-0.536399264	20
-0.699721548	3	5.63E+00	0.571272308	3
-0.048022383	2	9.35E-01	-0.074757592	2
-0.454551592	6	6.80E+00	-0.573150532	6
-0.277852918	10	8.02E+00	0.045025729	10
-0.249969654	2	1.45E+00	-1	2
-2	6	6.40E+02	0.138835728	6
-0.712498566	10	7.85E+01	-0.644523901	10
-0.274227599	12	1.18E+01	-0.033758814	12
-0.059038518	2	9.57E-01	0	2
-0.366500839	5	3.85E+00	-0.446250236	5
-0.251539856	3	1.78E+00	-0.27106602	3
0	4	1.03E+00	0	4
-0.050321632	9	2.16E+00	-0.000315717	9
-0.754962603	7	3.06E+01	-0.000286234	7

-0.384003594	6	5.23E+00	-0.214889667	6
-0.288815405	5	2.97E+00	-0.383378892	5
0.221353094	7	5.58E-01	0.333594913	7
-0.229047222	7	3.54E+00	-0.301400369	7
-0.258705653	6	3.28E+00	0.18654791	6
-0.596764806	5	8.31E+00	-0.447252736	5
-0.934110584	6	4.05E+01	-2	6
0.381159382	3	3.48E-01	0.533624873	3
1	3	4.63E-02	1	3
-0.015941221	4	1.08E+00	0.203099267	4
-0.254105921	8	4.78E+00	0.293645952	8
-0.195139467	1	1.08E+00	-0.104480561	1
0	1	7.61E-01	0	1
-0.198506443	8	3.72E+00	-0.041061808	8
-0.226021045	8	4.21E+00	0.357934038	8
0.156927806	4	6.46E-01	0.28044588	4
0.227782263	3	5.17E-01	0.216433181	3
-0.096683132	1	9.07E-01	0.040350746	1
-0.078721653	16	6.14E+00	0.439755129	16
-0.007365709	8	1.58E+00	0.120246839	8
1	31	4.00E-07	1	31
0.1601134	32	1.88E+00	-0.210097208	32
0.131128204	2	6.31E-01	0	2
0.113051961	11	1.09E+00	0.0476757	11
0.183784483	16	8.48E-01	0.387211451	16
-0.039191788	11	2.57E+00	-0.024439351	11
0.154605051	29	1.79E+00	0.195322569	29
0.220253395	15	6.35E-01	0.702708492	15
0.144932441	11	9.12E-01	1	11
0.637701731	9	7.58E-02	1	9
0.664808992	10	5.70E-02	0.096982974	10
0.20809428	4	5.55E-01	0.267590662	4
0.385408134	8	2.72E-01	0.811062655	8
1	12	3.03E-04	2	12
1	6	6.27E-03	2	6
0.891887098	5	5.78E-02	0.567394744	5
-1	11	6.17E+02	-0.152200431	11
-0.58705012	6	1.11E+01	0.577790596	6
-1	6	1.43E+02	-2	6
-0.004399659	5	1.15E+00	-0.506788839	5
0.124589402	3	6.74E-01	-0.136163187	3
-0.223107549	5	2.39E+00	-0.512784586	5
-0.028890347	2	8.96E-01	-0.024240776	2
0	2	8.41E-01	-4.88E-05	2
-0.047872972	8	1.90E+00	0.143836719	8
0.204122216	4	5.62E-01	0.017561188	4
0.418146258	3	3.17E-01	0.065553508	3

-0.618549563	2	3.26E+00	-0.847612868	2
0.079811039	7	9.98E-01	0.992636756	7
-0.331892425	6	4.31E+00	-0.423162332	6
0.259194843	5	4.77E-01	-0.029348138	5
-0.101498941	10	3.18E+00	-0.701437185	10
-0.15096867	5	1.88E+00	-0.379132419	5
0.232413166	5	5.22E-01	0.578277309	5
0.262975705	14	4.68E-01	0.063912995	14
-0.010946483	1	7.77E-01	0	1
-0.142738717	7	2.49E+00	-0.322964707	7
-0.22392841	8	4.17E+00	-0.675591951	8
-0.572267209	3	4.05E+00	-0.165045107	3
-0.604918648	6	1.19E+01	-1	6
-0.654550427	5	1.01E+01	-0.522623152	5
-0.739631792	14	4.18E+02	-0.971791352	14
-0.477548288	5	5.58E+00	-0.830977403	5
0.218372614	7	5.65E-01	0.149997725	7
-0.427436888	4	3.63E+00	0	4
-0.117952399	6	1.94E+00	-0.540947502	6
-0.240673146	2	1.43E+00	-0.033665876	2
-0.000375317	1	7.62E-01	-0.699391135	1
-0.042442932	1	8.22E-01	0	1
-0.203802646	3	1.57E+00	-0.172929429	3
-0.659351663	3	5.07E+00	-1	3
-1	8	3.16E+02	-1	8
-0.996555969	5	3.16E+01	-0.491602893	5
-1	4	2.26E+01	-0.778851602	4
0	2	8.41E-01	-0.048938166	2
0.037527192	1	7.11E-01	-0.738446079	1
-0.156235555	15	9.40E+00	-0.239507687	15
-0.079035937	7	1.91E+00	1	7
-0.436744847	7	8.30E+00	0.11785264	7
-0.192967409	5	2.16E+00	-1	5
0.0549701	5	9.44E-01	-0.377902695	5
0.023771293	15	2.59E+00	0.683219884	15
-0.394249694	11	1.90E+01	0.080805173	11
0.689901474	30	1.88E-03	0.815113387	30
0.510226564	7	1.71E-01	0.251820396	7
0.12281532	21	1.75E+00	0.12075104	21
0.179612081	11	7.50E-01	0.234983463	11
0.058925528	6	1.01E+00	0.005064514	6
-0.579268606	4	5.69E+00	0.037209084	4
-0.11859149	5	1.68E+00	-0.190358668	5
-0.000382925	2	8.42E-01	-0.477902901	2
0.114512653	21	1.89E+00	0.235386931	21
-0.080965587	12	3.71E+00	-0.112239382	12
0.163426547	8	7.35E-01	-0.496594257	8

-0.641307037	20	1.70E+03	-0.550745154	20
-0.005811016	3	9.43E-01	-0.004870462	3
0	5	1.13E+00	0	5
0	6	1.25E+00	-1.12E-05	6
-0.240985195	19	3.71E+01	-0.416979955	19
-0.464772724	30	5.47E+03	-0.004515773	30
-0.655749141	12	1.17E+02	-0.157210393	12
-0.282259564	33	9.69E+02	-0.345162149	33
0.004305097	18	3.99E+00	-0.001233313	18
-0.107440759	6	1.87E+00	0.100419656	6
0.023188956	3	8.75E-01	0.109715564	3
0.003852248	5	1.12E+00	-0.206609617	5
-0.011203325	10	1.98E+00	-0.263765505	10
0.080572977	42	1.11E+01	-0.148848976	42
-0.858947432	12	3.98E+02	-1	12
-0.081561226	7	1.93E+00	-0.144685879	7
-0.445344893	8	1.13E+01	-0.345953742	8
-0.052521193	5	1.35E+00	-0.001276925	5
-0.633223071	2	3.37E+00	-0.423380345	2
-0.673585016	3	5.26E+00	-0.456255437	3
-0.045512587	5	1.32E+00	0	5
0	5	1.13E+00	0.004298962	5
0.172123693	5	6.38E-01	0.014778869	5
-0.014163783	2	8.68E-01	-0.026612788	2
-0.881652321	7	5.15E+01	0	7
-0.733985531	6	1.92E+01	-0.241489523	6
-0.00033299	2	8.42E-01	0	2
-0.0130731	2	8.66E-01	0	2
-0.22328221	5	2.39E+00	-0.038563779	5
-0.691662117	2	3.83E+00	-0.292235825	2
-0.88576502	8	8.12E+01	0.52614078	8
0.153587693	6	7.08E-01	0.825689846	6
0.474005792	6	2.15E-01	0.531419035	6
-0.044562039	3	1.04E+00	-0.069573781	3
0.045023919	3	8.28E-01	0.739947847	3
0.188965047	24	1.02E+00	0.583517501	24
0.049822424	1	6.96E-01	-0.042232036	1
-0.430971768	3	2.82E+00	0.190871643	3
-2	7	6.98E+02	-2	7
-0.309805625	18	5.43E+01	0.467301718	18
0.853785286	7	4.17E-02	0.4060884	7
-0.651059574	13	1.62E+02	-0.247495316	13
-0.190471481	5	2.14E+00	-0.501817139	5
-0.354553077	6	4.69E+00	-0.327749816	6
0.373369161	2	3.71E-01	-1	2
-0.453898244	2	2.28E+00	-0.012118574	2
0.602136973	2	2.25E-01	-0.276419551	2

0.008800056	5	1.10E+00	0.240731079	5
-0.732977208	4	8.96E+00	-0.760950466	4
-0.263915952	6	3.34E+00	-1	6
-0.004575464	4	1.04E+00	0.079853474	4
-0.312497332	4	2.59E+00	-0.344497601	4
-0.471116261	12	3.87E+01	-0.672229781	12
-1	11	1.07E+03	-1	11
-0.279316125	3	1.91E+00	-0.35533371	3
0.038532243	5	9.97E-01	0.089575361	5
0.193711213	19	8.50E-01	0.412609503	19
-0.125468621	1	9.56E-01	0.595484998	1
0.930735043	22	6.54E-04	2	22
0.417292156	7	2.50E-01	0.573893838	7
-0.01187086	2	8.63E-01	-0.025054148	2
-0.416032787	10	1.66E+01	-0.868857562	10
0.044916899	1	7.02E-01	0.025452233	1
0.207298979	4	5.56E-01	-0.000266382	4
0.015574258	2	8.13E-01	-0.026211208	2
0.021214091	2	8.03E-01	-0.034847505	2
-1	10	2.63E+03	-1	10
0.059467355	9	1.26E+00	-0.078966853	9
-1	6	3.02E+02	0.275565591	6
-0.761163017	6	2.13E+01	-0.160891953	6
-0.013856365	3	9.63E-01	0.026816282	3
-1	5	5.87E+01	-0.421818557	5
-0.675933792	6	1.55E+01	-0.281150145	6
-2	9	5.98E+03	-0.765334145	9
-1	7	9.38E+01	-1	7
-0.036556035	4	1.14E+00	-0.379156766	4
0.077166031	4	8.17E-01	-0.160031528	4
-0.565000842	5	7.48E+00	0.611062962	5
-0.056391771	18	6.61E+00	-0.006228987	18
-0.011694071	11	2.20E+00	0.249993001	11
1	22	1.78E-04	2	22
-0.002176067	2	8.45E-01	0.104444787	2
-0.068902455	4	1.26E+00	0.004485613	4
-0.019389146	9	1.86E+00	0.218661525	9
-0.159188267	8	3.12E+00	-0.268942007	8
-0.000622459	1	7.62E-01	-0.046606439	1
-0.02712564	2	8.93E-01	-0.021810487	2
-0.234066625	3	1.70E+00	-0.044525784	3
-0.681896898	5	1.10E+01	-1	5
0.844438005	5	6.77E-02	0.777736695	5
1	8	4.05E-03	1	8
-1	9	3.97E+02	-0.613921702	9
0.181603846	2	5.65E-01	-0.02354818	2
-0.812890197	3	7.53E+00	0	3

-0.277061816	4	2.33E+00	0.176612765	4
0.785057466	30	5.51E-04	1	30
0.624010632	6	1.23E-01	-1	6
-0.471975386	1	1.79E+00	-0.051991865	1
-0.014354964	2	8.68E-01	-6.67E-05	2
-0.421020792	9	1.31E+01	-0.479226836	9
-0.683179133	2	3.76E+00	-0.561742586	2
-0.126783206	3	1.29E+00	0	3
-0.027835355	13	3.01E+00	0.006282389	13
0	5	1.13E+00	0.101208314	5
0.026768316	7	1.24E+00	0.029619768	7
0	3	9.29E-01	0	3
0.076541957	18	2.19E+00	0.159387426	18
0.052032766	9	1.31E+00	0.158720768	9
1	9	3.61E-03	-0.386911753	9
2	18	1.44E-05	2	18
0.985638201	3	7.35E-02	1	3
-0.14044623	1	9.82E-01	0.943329696	1
-1	16	4.36E+04	-1	16
-0.506783815	16	1.55E+02	-0.102593765	16
-0.446803742	6	6.60E+00	-0.03106049	6
-0.25242634	9	5.77E+00	0.127590511	9
-0.279193249	7	4.35E+00	-0.887583959	7
-0.939378014	8	1.03E+02	0.194200755	8
-0.452920231	10	2.01E+01	0.216878235	10
-0.751142757	10	9.62E+01	-0.836309222	10
0.070554771	6	9.64E-01	0.121678845	6
-0.046860933	9	2.12E+00	-0.113278567	9
-0.151643533	4	1.61E+00	-0.380910736	4
-0.023887474	7	1.53E+00	-0.408520134	7
1	34	2.03E-06	2	34
0.536011513	18	4.83E-02	1	18
-0.309171153	11	1.18E+01	-0.267978808	11
0.468055099	11	1.48E-01	1	11
1	8	2.30E-03	2	8
0.702320098	11	3.95E-02	0.62724162	11
1	12	4.70E-04	2	12
0.489291248	8	1.70E-01	0.602136858	8
-0.671842671	4	7.48E+00	-0.625956823	4
-0.49578954	2	2.49E+00	-0.496935807	2
0.473131937	3	2.75E-01	0.116793759	3
0.779292118	9	3.81E-02	2	9
-0.191394355	9	4.29E+00	-0.223921104	9
-0.050912027	7	1.71E+00	-0.35655933	7
-0.476754216	9	1.72E+01	-0.175295828	9
-0.281090121	4	2.36E+00	0.058944419	4
0.152074921	5	6.83E-01	0	5

-0.179158265	15	1.11E+01	-0.350399396	15
0.163323176	3	6.10E-01	-0.336276643	3
-0.040800501	9	2.06E+00	0.028542705	9
-0.907937185	12	5.35E+02	0.104785933	12
-0.419268251	7	7.73E+00	0.793195216	7
1	9	2.68E-03	2	9
0.43723258	14	1.44E-01	1	14
-0.756034131	3	6.51E+00	-0.51937255	3
0.181913333	7	6.56E-01	0.248098546	7
0.010303011	14	2.59E+00	-0.005851813	14
0.283277097	22	3.80E-01	0.404845115	22
0.012534924	12	2.11E+00	-0.284397081	12
-0.462837563	12	3.68E+01	-1	12
-0.299345425	5	3.08E+00	-0.025001972	5
-0.798447548	2	4.84E+00	-0.706513406	2
-0.299079761	5	3.08E+00	-0.008182089	5
-0.011288015	12	2.44E+00	-0.105104555	12
-0.528063932	40	2.52E+05	0.382627849	40
0.07547816	9	1.17E+00	0.247375675	9
-0.600306356	5	8.41E+00	-0.671362374	5
-0.820629288	16	1.65E+03	-0.179300729	16
-0.093295238	4	1.35E+00	0.616420693	4
0.549487679	26	1.79E-02	1	26
-0.238292442	3	1.72E+00	-0.0347346	3
-0.577232326	6	1.07E+01	0.816625989	6
-0.139905116	6	2.11E+00	-1	6
-0.499804705	9	1.92E+01	-1	9
0.432631585	7	2.35E-01	-0.436161655	7
0.016930836	7	1.29E+00	0.262234027	7
-0.032322244	6	1.41E+00	-0.617763523	6
-0.038420948	2	9.15E-01	-0.302257789	2
0	4	1.03E+00	0.376767984	4
-0.22356465	12	8.73E+00	0.480294332	12
-0.061268127	2	9.62E-01	0.364362922	2
-0.743492131	7	2.92E+01	-0.613394076	7
-0.157445357	3	1.39E+00	-0.371312519	3
-0.056322052	6	1.54E+00	-0.57952318	6
-0.679293514	7	2.25E+01	-0.550217925	7
-0.058735066	4	1.22E+00	-0.653412496	4
-0.460921339	9	1.59E+01	-0.538803986	9
-0.33639479	7	5.50E+00	-0.61693189	7
-0.479113964	5	5.61E+00	-0.727903075	5
-0.072037664	6	1.64E+00	-0.325706327	6
0.013601442	4	9.86E-01	-0.208907423	4
0.093669275	1	6.43E-01	0	1
-0.059592829	27	2.04E+01	0.73556742	27
-0.245771704	4	2.12E+00	-0.29728237	4

0.276152803	2	4.59E-01	0.964432168	2
-1	7	8.76E+01	0.234793845	7
-0.326462075	3	2.15E+00	0	3
0.197505327	3	5.59E-01	-0.61177385	3
-0.413856727	1	1.61E+00	-0.073114059	1
0	3	9.29E-01	-0.428080266	3
0.01061955	5	1.09E+00	-0.208747628	5
0.985480495	3	7.35E-02	0.026910936	3
-0.318364612	4	2.63E+00	0.061840638	4
-0.509617578	6	8.34E+00	-0.447145058	6
-0.128152699	4	1.50E+00	-0.021719394	4
-0.01580725	4	1.08E+00	0	4
0.057694215	4	8.66E-01	-0.00024909	4
0.52276001	2	2.67E-01	-0.000521314	2
-0.356078738	5	3.72E+00	-0.023835339	5
-0.819602064	4	1.16E+01	-0.276817287	4
0.278185975	3	4.54E-01	0	3
-0.127362193	5	1.74E+00	0.174831522	5
-0.100735325	9	2.76E+00	-0.498291951	9
0	2	8.41E-01	-0.01203918	2
0.186751261	4	5.91E-01	0	4
-0.423262547	10	1.72E+01	0.348776354	10
-0.787537298	1	3.17E+00	-0.067619586	1
-0.016684555	2	8.73E-01	0	2
-0.146366099	9	3.44E+00	-0.247798545	9
-0.604542537	4	6.13E+00	-0.14723882	4
-0.351187795	9	9.33E+00	-0.685122096	9
-0.06279371	14	4.25E+00	0.198338482	14
-0.065403161	2	9.71E-01	-0.013307991	2
0.267538903	5	4.64E-01	0.424529983	5
-0.073082717	10	2.74E+00	-1	10
-1	5	8.34E+01	-1	5
-0.848159072	16	2.03E+03	-1	16
-0.431552935	28	2.10E+03	-0.636954643	28
-0.009900525	8	1.60E+00	-1	8
-0.845024349	7	4.43E+01	-0.446015779	7
-0.457544634	1	1.74E+00	-2	1
-0.186979727	5	2.12E+00	-0.361165588	5
-0.298631703	6	3.81E+00	-0.134387493	6
0.675715378	5	1.19E-01	1	5
0.658251308	5	1.26E-01	-0.004381619	5
-0.770837921	3	6.76E+00	-1	3
0.54668144	10	1.06E-01	-0.116391756	10
1	14	1.58E-03	1	14
-0.502816818	4	4.54E+00	-0.543087599	4
-0.468916833	5	5.43E+00	-0.347397294	5
0.41945599	9	2.19E-01	-0.269741725	9

0.164152233	6	6.80E-01	-0.27873776	6
-0.324151447	4	2.68E+00	-0.647980965	4
-0.234496542	4	2.05E+00	0.628965725	4
-1	5	3.34E+01	0.042002767	5
-0.398155323	8	9.12E+00	0.313184531	8
-0.990398107	7	8.05E+01	-0.264854599	7
-0.13404181	8	2.79E+00	-0.634349763	8
-0.237082586	3	1.71E+00	-0.204404949	3
-0.219745778	9	4.92E+00	-0.613826404	9
-0.434559549	31	4.83E+03	-0.397380918	31
-0.864538941	5	2.03E+01	-0.860924763	5
-0.436715472	7	8.30E+00	-0.166380717	7
-0.169896308	13	7.46E+00	0	13
-0.959614884	4	1.75E+01	-1	4
-1	7	1.47E+02	-2	7
-2	7	1.01E+04	-1	7
-0.174292343	4	1.72E+00	-0.312185977	4
-0.835104922	7	4.26E+01	-0.726705586	7
-0.052123633	6	1.52E+00	-0.151508854	6
-0.402595616	14	4.25E+01	-0.71510345	14
-0.37171236	5	3.92E+00	-1	5
-0.838243805	1	3.47E+00	-0.09073978	1
-0.321093669	12	1.57E+01	-0.623948075	12
-0.75352087	12	2.11E+02	-0.796928746	12
-0.635005946	16	4.07E+02	-0.629264795	16
-1	25	3.05E+06	-1	25
-0.418326607	14	4.73E+01	-0.53557838	14
-0.160603827	12	5.98E+00	-0.33389185	12
-0.310604471	17	4.39E+01	-0.902844426	17
0	2	8.41E-01	-0.046597834	2
-0.139590039	12	5.27E+00	0.00141501	12
1	20	1.39E-05	2	20
0.068886954	8	1.12E+00	0.221373762	8
-0.145414016	31	1.04E+02	-0.12581677	31
-0.099397351	13	4.75E+00	-0.762070015	13
-0.958874865	5	2.78E+01	-0.048433907	5
-0.118632916	3	1.26E+00	0.209995254	3
-0.006247689	4	1.05E+00	0	4
-0.011979134	7	1.45E+00	0.244476258	7
-0.377153431	5	3.99E+00	0.422115463	5
-0.560761687	5	7.37E+00	0	5
-0.059863187	6	1.57E+00	-0.897934078	6
-0.453513584	5	5.15E+00	-0.061341134	5
-0.478137123	3	3.18E+00	0	3
-0.325584657	4	2.69E+00	-0.001753822	4
-0.041078064	3	1.03E+00	0	3
0	2	8.41E-01	0	2

-0.260656007	2	1.49E+00	-0.437232401	2
-0.747425844	3	6.36E+00	-0.403838184	3
-1	3	1.55E+01	-0.260906346	3
-0.43572245	2	2.19E+00	0	2
-0.143189055	2	1.15E+00	-0.203291562	2
-0.842420392	1	3.50E+00	-1	1
-0.031328992	1	8.06E-01	-0.051991865	1
-0.004311177	6	1.27E+00	-1	6
-0.495332088	7	1.06E+01	0.114607277	7
-0.497228203	5	5.96E+00	-0.069954401	5
-0.07214276	14	4.53E+00	0.049720236	14
-0.559588822	5	7.34E+00	-0.802417249	5
-0.110043583	35	1.15E+02	-0.036338545	35
-0.020873945	8	1.68E+00	0.070043115	8
0.446600369	6	2.38E-01	0.277014367	6
0.116871017	8	9.05E-01	0.005234429	8
0	5	1.13E+00	0	5
-0.052740266	5	1.35E+00	-0.424242721	5
-0.566027386	9	2.65E+01	0.008652195	9
0.27530269	24	4.07E-01	1	24
3	5	1.87E-05	5	5
0.905700337	12	9.83E-03	2	12
0.523881071	7	1.61E-01	1	7
0.645647676	15	3.02E-02	1	15
0.044370804	18	2.86E+00	0.000556075	18
-0.278909785	12	1.22E+01	0.148881878	12
1	8	3.28E-03	1	8
0.453750778	38	2.19E-02	0.464767673	38
0.268458385	4	4.64E-01	-0.000857876	4
0.88185819	4	7.57E-02	0.268109919	4
-0.880373645	3	8.96E+00	0.284516239	3
-0.2316661	2	1.40E+00	0.24683065	2
1	3	2.48E-02	1	3
-0.071524173	4	1.27E+00	0.504489421	4
-0.514925788	4	4.70E+00	0.04841584	4
-0.410515191	7	7.46E+00	0.883103056	7
-1	6	1.26E+02	-1	6
-0.617365732	7	1.74E+01	-1	7
-0.016639432	3	9.70E-01	0	3
-0.411893905	5	4.49E+00	-0.035599989	5
-0.173801166	8	3.33E+00	-0.167390038	8
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
0	1	7.61E-01	0	1
-0.002911662	2	8.47E-01	0.423407292	2
0.499571169	25	3.45E-02	0.768994833	25
-0.734211666	19	2.69E+03	-0.637461852	19

-0.758806216	21	7.27E+03	-0.761506527	21
-0.359546389	3	2.34E+00	-0.364213555	3
-1	9	5.91E+02	-0.852726728	9
-1	16	1.51E+04	-1	16
-0.878574787	9	1.21E+02	-1	9
-0.288129721	9	6.87E+00	-0.357948042	9
-0.859693178	6	3.07E+01	-1	6
-1	4	4.32E+01	-1	4
-0.40546318	17	9.31E+01	0.39074424	17
0	3	9.29E-01	0	3
-0.278366137	3	1.90E+00	0	3
-0.278021404	19	5.12E+01	-0.77877902	19
-0.83830142	12	3.52E+02	-0.922343023	12
-0.241368244	6	3.08E+00	-0.229449344	6
-0.595675576	3	4.31E+00	-0.987376969	3
-0.301919404	3	2.02E+00	-0.5361025	3
0	1	7.61E-01	0	1
-0.744689621	4	9.28E+00	-0.598400086	4
-0.010471259	3	9.55E-01	0	3
-0.625869805	9	3.55E+01	-0.786038087	9
-0.811213565	3	7.50E+00	-1	3
-0.187129209	11	5.91E+00	-0.108392118	11
-0.376150145	9	1.05E+01	0.08683283	9
-1	6	1.69E+02	-2	6
-1	8	9.08E+02	-0.542172562	8
-0.052049047	2	9.43E-01	-0.001933237	2
-0.024844613	2	8.88E-01	-0.035517139	2
-0.35241104	2	1.82E+00	-0.542774196	2
-0.065353097	8	2.05E+00	-0.455704344	8
-0.409699894	2	2.07E+00	0.390154915	2
0.376237469	7	2.96E-01	0.202703944	7
-0.279378218	4	2.34E+00	0.209982733	4
-1	4	2.67E+01	-0.569974639	4
-0.333876408	8	6.83E+00	-0.069068712	8
-1	11	6.61E+02	-1	11
-0.025413781	1	7.97E-01	-0.123159011	1
-0.066801654	5	1.42E+00	-0.118757185	5
-0.700270252	9	5.10E+01	-0.588632424	9
-2	9	1.20E+04	-2	9
-0.396873482	4	3.32E+00	-0.580974174	4
-0.65846646	2	3.56E+00	-1	2
-0.661036861	9	4.21E+01	-0.967987022	9
-0.143956911	3	1.35E+00	-0.037550707	3
-0.522244668	11	3.90E+01	-0.730626367	11
-1	8	4.11E+02	-0.562326505	8
-2	9	1.07E+04	-1	9
-1	8	9.46E+02	0.273630334	8

0.067694438	6	9.74E-01	-0.025081736	6
-0.679219328	4	7.65E+00	-0.037183051	4
-0.003428241	9	1.72E+00	0.092320345	9
-0.156382186	3	1.39E+00	-0.1967794	3
0.864768865	5	6.32E-02	0.803306361	5
0.518081103	10	1.23E-01	0.600728126	10
0.763883706	3	1.30E-01	0.518257773	3
0.908585752	28	1.84E-04	1	28
0.555079981	5	1.78E-01	0.981169874	5
1	5	3.64E-02	3	5
0.013771741	4	9.86E-01	0.069875216	4
0.237339014	10	5.37E-01	0.43191414	10
0.39203885	6	2.91E-01	0.105041229	6
-0.037954741	1	8.16E-01	-0.062893326	1
-0.502764475	3	3.39E+00	0.915386179	3
-1	8	1.41E+02	-0.638893708	8
0.19900591	18	7.93E-01	0.238021058	18
-0.791891451	4	1.07E+01	-0.141490066	4
0.198595172	7	6.13E-01	-0.754207198	7
0.022875122	5	1.05E+00	0.432816627	5
1	8	5.57E-03	2	8
-0.089615366	6	1.75E+00	-0.344743532	6
-0.565989134	6	1.03E+01	-0.858596458	6
-0.422339651	7	7.83E+00	-0.989375997	7
-0.292574518	6	3.72E+00	-0.375946477	6
-0.342499114	10	1.13E+01	-0.262023345	10
-0.456324599	6	6.84E+00	-0.174113351	6
0	3	9.29E-01	-0.065684806	3
-0.429318098	8	1.05E+01	-0.522980764	8
-0.530343862	7	1.22E+01	0.077721275	7
-0.184933387	5	2.10E+00	0	5
-0.012235312	7	1.46E+00	0	7
0	5	1.13E+00	0.323977296	5
-0.130218161	3	1.30E+00	-0.198672335	3
-0.216246898	10	5.81E+00	-0.033827243	10
0	4	1.03E+00	-0.205711027	4
-0.457603239	7	9.05E+00	-0.253898444	7
-0.610056558	21	1.78E+03	-1	21
0.228815773	3	5.16E-01	-0.539845602	3
-0.1366987	3	1.32E+00	-0.044870938	3
-0.602773158	11	6.14E+01	-0.635360569	11
-0.753007942	8	4.48E+01	-0.809984737	8
-1	3	2.63E+01	-0.4289121	3
0.045105337	8	1.25E+00	0.468560149	8
0.129928643	9	8.98E-01	0.998996617	9
-0.036135407	6	1.43E+00	0.116591216	6
0.008512824	7	1.34E+00	-0.333450879	7

-0.132974563	3	1.31E+00	0.403513528	3
-0.735694299	10	8.87E+01	0.846866852	10
0	5	1.13E+00	0	5
0.42837928	22	9.13E-02	0.899151114	22
-0.380630864	12	2.25E+01	-0.627852493	12
0.424582207	7	2.43E-01	0.656505262	7
1	74	3.79E-13	1	74
1	2	5.96E-02	0.939298908	2
0.318450141	15	3.14E-01	0.969330418	15
-0.370988854	8	8.07E+00	0.211775272	8
-0.095198371	9	2.68E+00	-0.016221618	9
-0.236427809	5	2.50E+00	-0.135111667	5
-0.029215185	2	8.97E-01	-0.048343584	2
0.158427751	4	6.43E-01	-0.001575688	4
0.045557696	1	7.01E-01	-0.037654879	1
0.340038942	25	1.99E-01	0.65141048	25
0.066374708	10	1.32E+00	-0.423659735	10
0.010708128	6	1.20E+00	-4.67E-05	6
-0.39208325	3	2.55E+00	0.072437417	3
-0.057513966	1	8.45E-01	0.032129072	1
0.004269171	10	1.82E+00	0.075836234	10
0.592704991	8	1.07E-01	0.942112931	8
-0.450237794	10	1.98E+01	-0.7012934	10
-1	6	1.20E+02	-0.054181355	6
-0.260021107	8	4.91E+00	-0.142152824	8
-0.527541963	7	1.21E+01	-0.51665518	7
-0.004113199	7	1.41E+00	0.949686822	7
-0.189098455	10	5.03E+00	1	10
0.408170483	9	2.32E-01	1	9
1	15	6.93E-04	0.507520582	15
0.615376987	69	2.49E-05	1	69
1	19	6.80E-04	2	19
-0.457544634	2	2.29E+00	0	2
-0.567712072	18	4.62E+02	-0.302258842	18
0.213732137	30	8.70E-01	0.260049396	30
-0.0420698	1	8.22E-01	-0.070259545	1
-0.861493296	2	5.56E+00	-0.345014598	2
-0.296597924	9	7.15E+00	-0.660375809	9
-0.310586858	5	3.20E+00	-0.402601427	5
-0.533478439	7	1.23E+01	-1	7
-0.849181764	4	1.26E+01	-2	4
0.288830209	70	2.15E-01	0.790958198	70
0.290127378	20	3.64E-01	0.963138125	20
0.469267307	32	2.75E-02	1	32
-0.883758496	1	3.77E+00	0.069398274	1
-0.373782929	5	3.95E+00	-0.49389202	5
0.13226822	5	7.29E-01	0.621407406	5

0.68437101	15	2.29E-02	-0.461919461	15
-1	14	2.52E+03	-0.701808225	14
-0.373111507	8	8.15E+00	0.009411427	8
-0.23009947	4	2.03E+00	-0.85152038	4
-0.001960855	7	1.40E+00	-0.003238424	7
-0.200359194	7	3.15E+00	-0.425358619	7
-0.968642103	11	4.82E+02	-0.307004894	11
-0.074866342	12	3.57E+00	0.006610704	12
0.15545613	15	1.01E+00	0.304915618	15
0.021684654	8	1.39E+00	0.779990589	8
-0.372934578	4	3.09E+00	0.212425552	4
-0.055819115	9	2.22E+00	0.38434914	9
-0.450464173	8	1.15E+01	0.057632149	8
0.108218933	9	9.98E-01	-0.045604415	9
0.613989527	13	4.96E-02	0.774830101	13
0.047124629	6	1.05E+00	0.178718701	6
0.023974255	4	9.56E-01	-0.008658874	4
0.578790226	8	1.14E-01	0.098372337	8
-0.118995924	6	1.95E+00	-0.172741865	6
0	1	7.61E-01	0	1
-0.069074683	8	2.08E+00	-0.049938995	8
-2	5	7.53E+02	-1	5
-2	4	1.07E+02	-1	4
0.248950065	4	4.92E-01	-2	4
-0.182527865	10	4.86E+00	-0.014513882	10
-0.245368059	7	3.79E+00	0.141283105	7
-0.023764432	11	2.36E+00	-3.97E-05	11
0.014339388	16	3.04E+00	2	16
0.017518049	31	1.20E+01	0.2935427	31
-0.128186145	14	6.63E+00	0.719825335	14
-0.228203529	2	1.39E+00	-0.197398572	2
-0.895144797	18	7.01E+03	-0.035678352	18
0.132314148	30	2.49E+00	0.239568622	30
1	10	3.19E-03	2	10
2	14	3.17E-05	2	14
2	17	1.16E-06	3	17
0.485445771	35	1.71E-02	0.938507988	35
0.077384405	14	1.65E+00	0.938440938	14
0.283362567	30	3.55E-01	0.332820359	30
-0.273422019	24	1.36E+02	-0.096355397	24
0.089153175	6	8.99E-01	0.304063647	6
-0.020611709	8	1.68E+00	-0.085019013	8
-0.105936429	10	3.25E+00	0.380602206	10
0.362991626	44	7.35E-02	1	44
0.82464667	7	4.70E-02	0.732478894	7
-0.221817455	7	3.44E+00	-0.158613558	7
0.010480911	7	1.33E+00	-0.303013121	7

0.483581424	32	2.27E-02	0.737104056	32
-0.431640908	6	6.24E+00	0.829866877	6
0.055414617	19	2.83E+00	0.145861141	19
-0.390078125	15	5.01E+01	0.543478197	15
-0.102549909	10	3.20E+00	-0.148369826	10
0.594585586	7	1.21E-01	0.841882118	7
0	1	7.61E-01	0.044250996	1
-0.272419991	6	3.45E+00	-0.232371468	6
0.715656985	4	1.24E-01	1	4
1	46	1.32E-07	2	46
-0.229006019	5	2.44E+00	-0.07150502	5
0.120270397	11	1.05E+00	0.642536134	11
-0.179423881	2	1.25E+00	-0.085386674	2
-1	8	3.98E+02	-2	8
-0.954364648	12	7.07E+02	-0.587620836	12
-0.461360589	5	5.29E+00	0	5
-0.027398666	3	9.97E-01	-0.023551337	3
-0.433679784	5	4.82E+00	0.359840243	5
-0.54492612	7	1.29E+01	-0.677211807	7
-0.221799576	5	2.38E+00	-0.541043132	5
-0.262178537	8	4.96E+00	-0.565278533	8
-0.556876818	5	7.28E+00	-0.219298841	5
-0.094197431	5	1.55E+00	0.637608844	5
0.764025258	56	4.87E-06	2	56
0.324697748	23	2.47E-01	0.492972575	23
-0.23894718	5	2.52E+00	0.944403191	5
-0.53304958	3	3.66E+00	0.813257142	3
0.518002619	13	9.17E-02	0.773075213	13
0.697374977	38	4.49E-04	0.872203914	38
-0.057272115	3	1.08E+00	0.786023268	3
0.806002977	5	7.69E-02	2	5
0.64040731	4	1.55E-01	-0.184754503	4
1	8	8.23E-03	0.572329979	8
0.198446958	4	5.71E-01	0.510233125	4
0.526538183	41	5.05E-03	0.851394058	41
0.566595084	8	1.20E-01	0.130524663	8
0.788854763	9	3.63E-02	-0.012638192	9
-0.153315632	6	2.22E+00	-0.151189579	6
-0.423774906	5	4.67E+00	-0.705857356	5
-1	10	8.05E+02	-0.639213091	10
-0.061926657	4	1.23E+00	-0.027698272	4
-0.73073582	15	5.74E+02	-0.583873158	15
3	6	6.16E-05	3	6
-0.967584212	4	1.79E+01	-2	4
-0.751808659	4	9.48E+00	-0.505889874	4
0.203279821	7	6.01E-01	0.524272244	7
0.264077879	5	4.70E-01	-0.461114645	5

-0.576320914	8	2.03E+01	0.412692721	8
-0.236372774	8	4.41E+00	0.206588828	8
0	4	1.03E+00	-4.30E-05	4
0.187122663	11	7.19E-01	-0.32599818	11
-0.543174967	11	4.39E+01	0.230984462	11
0.137200778	11	9.52E-01	-0.852459539	11
1	10	9.63E-03	0.955141819	10
2	13	3.61E-05	1	13
2	13	3.77E-06	3	13
1	8	1.34E-02	1	8
0.560200288	52	8.07E-04	1	52
0.764901414	13	1.89E-02	1	13
1	4	2.68E-02	1	4
0	4	1.03E+00	0.204637707	4
-0.332409193	9	8.52E+00	-0.410913302	9
-0.247364065	11	8.30E+00	0.264367222	11
0.835125097	11	1.87E-02	0.958626187	11
0.098704838	6	8.68E-01	-1	6
-0.345523448	13	2.29E+01	0.281737245	13
0.590878411	12	6.52E-02	-0.511466346	12
-0.218785064	4	1.96E+00	-1	4
-1	13	4.73E+03	-1	13
-0.021434703	7	1.51E+00	0.672712285	7
-0.713355191	3	5.83E+00	-0.014594334	3
0.721619576	5	1.02E-01	0.24052562	5
0.812039819	11	2.13E-02	0.501787404	11
0.459346062	3	2.85E-01	2	3
0.07353181	4	8.26E-01	0.123020281	4
-0.580164815	4	5.70E+00	0.121454071	4
0.118433484	22	1.92E+00	0.580259152	22
0.114594085	2	6.54E-01	-0.209936391	2
-0.725362901	6	1.86E+01	-0.021427616	6
-0.014001168	4	1.07E+00	0.112338239	4
0.315311251	23	2.72E-01	0.15235599	23
-0.02481247	6	1.37E+00	0.420957476	6
0.705033568	5	1.08E-01	0.733909472	5
0.561988074	45	1.74E-03	1	45
-0.306437237	11	1.16E+01	-0.675754961	11
-2	10	2.90E+04	-1	10
-0.667552581	4	7.39E+00	-1	4
-2	7	1.17E+03	-2	7
0.081252718	14	1.60E+00	0.498517967	14
-0.061220852	2	9.62E-01	-0.280031961	2
-0.077582724	2	9.97E-01	-0.19643848	2
-0.62318316	3	4.62E+00	-0.453334464	3
-1	3	3.33E+01	-0.02784264	3
-0.568513001	5	7.57E+00	0.79378545	5

-0.019166677	9	1.85E+00	0.387991092	9
0.430096568	17	1.24E-01	0.133459427	17
2	8	2.06E-04	1	8
-2	4	9.82E+01	-0.542621143	4
-2	4	1.50E+03	-2	4
-1	4	3.12E+01	-1	4
-0.012970502	4	1.07E+00	-0.04438336	4
0.917447632	8	2.50E-02	0.927396574	8
0.106313497	7	8.95E-01	0.172955679	7
-0.387500542	5	4.13E+00	-0.866462502	5
-0.622131323	3	4.61E+00	-1	3
-0.972662603	2	7.09E+00	-1	2
0.279064113	6	4.44E-01	-0.540382317	6
0.247466223	6	4.99E-01	0.620202934	6
0.485674869	8	1.73E-01	0.069268025	8
0.359869754	3	3.68E-01	-0.029312444	3
0.844705985	14	9.08E-03	1	14
0.586326969	12	6.71E-02	-0.402950028	12
0.730761395	5	9.89E-02	-0.043246966	5
-0.686379338	6	1.61E+01	-0.440543085	6
0.070008824	7	1.04E+00	0.706555303	7
0.765636428	6	7.26E-02	1	6
1	21	1.42E-04	2	21
-0.090431597	8	2.29E+00	1	8
0.898605337	41	8.74E-06	0.298720747	41
1	4	2.03E-02	0.898879745	4
-0.871947906	6	3.21E+01	-1	6
-0.767148854	11	1.55E+02	-0.024424817	11
0.310650266	13	3.45E-01	1	13
-0.105227052	3	1.22E+00	1	3
0.662205939	12	4.25E-02	1	12
-0.220957791	3	1.64E+00	-0.067248168	3
1	10	4.16E-03	0.491334282	10
0.190405018	4	5.85E-01	-0.128619287	4
0.267935584	7	4.61E-01	0.311167648	7
1	9	2.36E-03	2	9
0.223288743	17	6.39E-01	0.91761505	17
0.817766123	6	5.98E-02	0.736855606	6
1	4	3.76E-02	0.897277471	4
0.326732715	20	2.61E-01	0.876687961	20
0.031181297	48	4.44E+01	0.254373158	48
0.132386801	4	6.94E-01	0.45097596	4
0.841709232	9	2.81E-02	2	9
0.806949352	5	7.67E-02	2	5
0.014911741	7	1.30E+00	0.713685737	7
1	9	4.48E-03	0.730036487	9
0.860635294	3	1.01E-01	-0.565332096	3

-0.667557936	23	6.24E+03	-0.418890023	23
-0.245444062	3	1.75E+00	0.390839499	3
-1	17	1.59E+04	-1	17
-0.375424404	16	5.75E+01	-0.828704675	16
-0.483616303	3	3.23E+00	0.359324438	3
0.109645644	4	7.42E-01	0.675777489	4
2	28	1.57E-09	2	28
0.281214216	1	4.58E-01	1	1
2	4	5.94E-03	2	4
1	6	6.11E-03	2	6
0.201866211	6	5.91E-01	0.71107231	6
0.535597309	13	8.19E-02	0.439335868	13
-0.063270594	3	1.09E+00	-0.078195598	3
2	21	2.47E-08	3	21
1	7	6.59E-03	1	7
4	3	7.93E-05	3	3
3	6	7.03E-05	3	6
0.26427882	13	4.64E-01	0.507431937	13
-0.085071404	25	2.12E+01	-0.054163273	25
0.140389797	1	5.91E-01	-0.662294056	1
0.344033545	6	3.48E-01	-0.422494781	6
0.080910524	2	7.04E-01	-0.084676338	2
-0.081522785	20	1.06E+01	0.463179339	20
-0.08059787	5	1.48E+00	0.626868547	5
1	33	4.95E-08	2	33
2	2	1.60E-02	3	2
0.648893142	3	1.75E-01	0.084850475	3
-0.080445379	7	1.93E+00	0.097711015	7
-0.489819453	7	1.03E+01	-0.891619917	7
-0.197731263	3	1.55E+00	-0.166704544	3
1	3	5.79E-02	-0.08052145	3
0.378840509	2	3.67E-01	0.068378557	2
0.30687293	11	3.66E-01	0.304576816	11
0.669452096	7	8.88E-02	0.243614258	7
-0.132877173	9	3.23E+00	0.116240621	9
-0.451504972	2	2.26E+00	-0.033619604	2
-0.262368031	6	3.33E+00	-0.081191784	6
1	8	1.56E-02	0.879661151	8
0.192336257	4	5.81E-01	0.202605204	4
-0.476696992	10	2.28E+01	-0.323806325	10
-0.166928484	8	3.23E+00	-0.422418768	8
-0.2237864	7	3.47E+00	1	7
-0.022327365	6	1.36E+00	-0.551413995	6
0.01981271	1	7.35E-01	-0.034205926	1
-0.006157473	6	1.28E+00	-0.468937182	6
-0.045876301	3	1.05E+00	-0.638639677	3
-0.688224262	3	5.46E+00	-0.422645723	3

-0.705787883	5	1.20E+01	-0.158403666	5
0	2	8.41E-01	0	2
0	4	1.03E+00	0	4
-0.373010982	4	3.09E+00	0	4
0	4	1.03E+00	0	4
-0.152375546	2	1.17E+00	-0.029125442	2
-0.264827344	20	5.58E+01	-0.358321969	20
-1	4	6.72E+01	-2	4
0.084724018	2	6.99E-01	-0.250279715	2
0.60948089	19	2.30E-02	0.783818071	19
-2	3	1.66E+02	-2	3
-0.273594536	12	1.18E+01	-0.471292085	12
-0.076040628	4	1.29E+00	-0.759770825	4
2	21	1.16E-06	2	21
0.534251599	4	2.12E-01	0.965683042	4
0.65004263	4	1.50E-01	0.750082445	4
-0.099122247	4	1.38E+00	0.037009396	4
1	40	1.42E-06	2	40
0.217690507	4	5.39E-01	-0.855768502	4
0.741929374	11	3.16E-02	2	11
0.331732447	13	3.02E-01	1	13
1	5	3.66E-02	1	5
-0.107967887	2	1.07E+00	-0.042110803	2
-0.279286845	14	1.84E+01	-0.324888698	14
0.63950096	8	8.69E-02	0.154635041	8
0.150590692	2	6.05E-01	-0.339951368	2
1	6	1.32E-02	1	6
0.530340964	16	6.22E-02	1	16
-0.108339489	10	3.30E+00	-0.077674888	10
1	8	2.74E-03	2	8
2	6	1.38E-04	3	6
0.278975522	10	4.32E-01	1	10
3	41	6.48E-20	3	41
1	53	5.43E-10	2	53
-0.276550734	8	5.28E+00	0.032656897	8
-0.020559756	4	1.09E+00	0.614837519	4
-0.305571407	11	1.15E+01	0.170033691	11
-0.14697123	4	1.59E+00	0.025065561	4
1	9	9.85E-03	1	9
0.459829792	6	2.26E-01	0.417189811	6
0.11736259	11	1.06E+00	2	11
-0.891102541	8	8.32E+01	0.227448608	8
0.051136237	41	1.71E+01	0.393789522	41
0.286042917	9	4.20E-01	0.652669455	9
-0.01100152	5	1.18E+00	0.116853679	5
0.341085286	3	3.86E-01	0.76336375	3
1	7	1.40E-02	1	7

0.331350151	9	3.37E-01	0.213183903	9
1	6	2.12E-02	1	6
0.372872266	16	2.04E-01	1	16
0.508450754	13	9.74E-02	0.687285678	13
2	11	3.65E-05	2	11
1	7	4.58E-03	1	7
0.088343424	16	1.74E+00	1	16
0.042537341	5	9.84E-01	0.526590592	5
1	16	3.44E-04	1	16
0.214294787	32	8.95E-01	0.655080857	32
-0.360326764	4	2.98E+00	-0.200853185	4
-1	4	5.36E+01	-1	4
-1	3	2.30E+01	-0.809189963	3
-1	6	1.54E+02	-0.372914339	6
-0.791376851	1	3.19E+00	0.380270183	1
-1	9	6.88E+02	-2	9
-2	8	1.91E+03	-0.764779276	8
-0.67863887	6	1.56E+01	-0.276997571	6
-0.185777271	8	3.52E+00	1	8
-0.859851149	7	4.71E+01	-0.026034058	7
-0.595345539	5	8.28E+00	0.578724116	5
0.886410625	7	3.65E-02	0.978308186	7
1	12	2.40E-03	0.83763724	12
-0.590771747	5	8.15E+00	-0.348715084	5
-0.119397952	2	1.09E+00	-0.315860381	2
-0.038377955	3	1.03E+00	0.485859051	3
-0.508228433	7	1.11E+01	-0.96715105	7
-0.524157327	21	7.91E+02	-0.297434236	21
0.182892047	8	6.73E-01	0.156641073	8
-0.207000004	4	1.89E+00	-0.011458783	4
-1	9	7.81E+02	-0.345436043	9
1	32	1.56E-07	2	32
0.263394585	7	4.70E-01	1	7
0.875370239	15	5.83E-03	0.828047046	15
0.404226484	11	2.12E-01	0.915820498	11
0.763028808	7	6.05E-02	2	7
-1	17	5.91E+04	-1	17
-1	2	1.56E+01	-2	2
-1	2	1.18E+01	-0.799052816	2
-0.340409299	7	5.59E+00	-0.605546747	7
-0.656430339	4	7.15E+00	-1	4
-0.871162364	10	1.81E+02	-0.115096634	10
-0.757336688	16	1.03E+03	-0.35470503	16
-0.280522174	19	5.23E+01	0.55522567	19
0.112487253	11	1.09E+00	0.072070309	11
0.366327899	15	2.23E-01	0.061113721	15
-0.706071171	4	8.28E+00	-0.333595145	4

-1	3	3.02E+01	-1	3
-0.917970861	6	3.81E+01	-0.345543185	6
0	1	7.61E-01	-0.771459048	1
0.025126274	1	7.28E-01	-0.083262892	1
-0.018547382	5	1.21E+00	-0.81588507	5
-1	10	2.54E+03	-1	10
-2	7	8.61E+02	-0.85433382	7
-0.136898107	2	1.14E+00	-0.104257901	2
-0.546029267	6	9.55E+00	-0.456900032	6
0	5	1.13E+00	-0.460432587	5
-0.420849817	4	3.56E+00	-0.915725619	4
-1	7	1.89E+02	-1	7
-0.377427313	5	4.00E+00	-0.926194273	5
-0.044184576	1	8.25E-01	0	1
-0.465219951	14	6.50E+01	-0.260661269	14
-0.408766225	4	3.44E+00	-0.799590904	4
-0.341897967	6	4.47E+00	-2	6
-0.021899008	3	9.83E-01	0.336892482	3
0	1	7.61E-01	-0.699391135	1
0.05504633	5	9.44E-01	-0.350278715	5
0.071905769	4	8.30E-01	-0.199727028	4
0.074192346	4	8.24E-01	-0.461085714	4
0.011359697	13	2.34E+00	0.064113721	13
-0.392213333	3	2.55E+00	-1	3
-0.138147765	4	1.54E+00	0.699816311	4
-0.388165746	7	6.80E+00	-0.041191376	7
0.151193807	5	6.85E-01	0.097324458	5
0.836409246	8	3.59E-02	0.802278213	8
1	6	1.45E-02	1	6
0.52961406	11	1.05E-01	2	11
0.245560012	12	5.20E-01	1	12
0.441490914	9	1.97E-01	0.906244118	9
0.427956775	2	3.29E-01	0.141035015	2
-0.848222571	15	1.33E+03	-0.66281902	15
0.35794541	5	3.43E-01	0.209772118	5
0.869530689	6	4.93E-02	0.815477084	6
0.660780053	17	2.00E-02	1	17
0.498418897	8	1.64E-01	1	8
1	7	5.69E-03	1	7
1	8	3.25E-03	1	8
-0.016196237	8	1.64E+00	0.174492005	8
-0.150226161	7	2.56E+00	0.085076958	7
-0.578746804	6	1.08E+01	-0.588664425	6
0.230633693	31	7.08E-01	0.788001936	31
0.220142224	5	5.44E-01	0.506452718	5
0.65255823	8	8.20E-02	0.924164385	8
-0.10274186	5	1.60E+00	-0.271212498	5

-0.345582735	24	2.93E+02	0.334138113	24
-0.268767486	2	1.52E+00	1	2
-0.53016524	12	5.52E+01	-0.453480159	12
0.565357989	7	1.36E-01	2	7
1	4	2.00E-02	1	4
0.449675865	7	2.19E-01	0.61429252	7
-0.435237634	3	2.85E+00	-1	3
-1	3	2.82E+01	-1	3
1	7	1.56E-02	0.295849754	7
0.287073763	1	4.53E-01	0.149044969	1
0.603397063	72	2.35E-05	1	72
1	10	7.16E-04	2	10
0.112719937	3	6.95E-01	0.90155365	3
0.348352207	13	2.71E-01	0.701593356	13
0.004914583	4	1.01E+00	0.624770825	4
-0.703952346	5	1.19E+01	0.471649281	5
-0.099136707	8	2.39E+00	0.080765103	8
0.427696031	4	2.90E-01	0.340948088	4
0.153378851	10	8.34E-01	0.448916341	10
1	11	6.18E-03	2	11
-0.532562617	5	6.71E+00	-0.789784515	5
-0.671556133	3	5.23E+00	-0.918024531	3
1	8	1.26E-02	2	8
0.799523959	8	4.24E-02	2	8
0.700076402	11	4.00E-02	2	11
1	13	2.15E-03	2	13
-0.661085427	3	5.10E+00	-0.019248342	3
0	2	8.41E-01	-0.657451499	2
-0.560245154	3	3.93E+00	0.199617403	3
-0.381551224	7	6.62E+00	-0.000302615	7
2	23	1.43E-07	2	23
1	10	4.40E-03	1	10
-0.401066989	5	4.33E+00	-0.337078384	5
-0.663479657	3	5.13E+00	-0.414070325	3
2	28	4.30E-08	2	28
0.889553867	4	7.40E-02	0.919555852	4
2	3	7.44E-03	3	3
2	18	3.21E-06	2	18
-0.469955285	5	5.44E+00	-1	5
0.073556791	18	2.25E+00	0.46541688	18
0.098684059	8	9.82E-01	-0.411196168	8
-0.138746102	7	2.45E+00	-0.064027924	7
-1	4	3.50E+01	-2	4
-2	4	2.23E+02	-2	4
-0.780551675	4	1.03E+01	-2	4
-1	6	3.18E+02	-2	6
-0.264697634	5	2.74E+00	-0.93536908	5

0.075128908	10	1.26E+00	-0.84515054	10
-1	4	2.28E+01	-2	4
-1	10	4.17E+03	-1	10
-1	20	8.60E+05	-1	20
-2	4	1.23E+02	-2	4
-1	2	1.29E+01	-0.600044155	2
0.44452768	20	8.97E-02	1	20
1	24	7.26E-06	1	24
0.179353149	3	5.86E-01	0.77585537	3
0.821670848	25	1.00E-03	1	25
1	6	2.20E-02	0.89278884	6
0.125105281	10	9.68E-01	1	10
0.035494115	11	1.69E+00	0.095767603	11
-0.758887077	6	2.11E+01	0.059465738	6
0.359908509	13	2.52E-01	0.955484415	13
-0.319746307	9	8.01E+00	-1	9
0.434338345	2	3.25E-01	1	2
0.336253395	16	2.69E-01	1	16
2	9	3.97E-04	1	9
0.085758041	10	1.19E+00	0.292033408	10
0.902558863	9	2.09E-02	2	9
0.377914315	2	3.67E-01	0	2
-0.665858648	5	1.05E+01	0.468766724	5
1	34	6.21E-07	2	34
0.001099864	5	1.13E+00	-0.378381506	5
-0.13491283	4	1.53E+00	0.428612229	4
1	28	6.29E-07	2	28
0.759900358	25	1.98E-03	1	25
0.433202537	9	2.05E-01	0.496162052	9
-0.573945776	3	4.07E+00	0.077292292	3
0.368975787	15	2.19E-01	-0.341657646	15
0.334982412	9	3.31E-01	0.959827434	9
0.381533613	5	3.17E-01	-0.153765723	5
0.441855844	14	1.39E-01	0.752431061	14
0.3839599	10	2.49E-01	0.538096373	10
0.483690001	24	4.47E-02	0.388249124	24
0.135020921	2	6.26E-01	1	2
0.572160126	6	1.49E-01	-0.043366364	6
1	3	5.72E-02	0.964912742	3
2	37	1.20E-15	3	37
0.724435238	2	1.72E-01	1	2
-0.339112495	4	2.80E+00	-0.378830971	4
-0.477959025	11	3.04E+01	0.526158531	11
-0.073862771	8	2.13E+00	-0.157743859	8
0.788646975	3	1.22E-01	0.78526022	3
1	3	3.84E-02	2	3
0.482849497	5	2.26E-01	-0.025038251	5

0.833625285	8	3.64E-02	1	8
1	3	3.34E-02	2	3
0.392486444	1	3.74E-01	0.713776266	1
-0.036188083	2	9.11E-01	-0.415392811	2
-0.311498779	7	4.97E+00	-0.059475597	7
-0.139839537	1	9.81E-01	0.079473253	1
-0.046821143	6	1.49E+00	0.290235879	6
0.699176701	4	1.30E-01	0.32983108	4
-0.276379752	2	1.54E+00	0.540572298	2
0.490718794	1	3.13E-01	1	1
0.046815781	4	8.94E-01	0.341184573	4
-0.1277899	5	1.74E+00	-0.74253305	5
0.595532361	7	1.20E-01	0.672211647	7
-0.277893312	8	5.32E+00	-0.284938352	8
2	22	6.41E-07	2	22
-0.326465692	2	1.72E+00	-0.612715698	2
-0.50062108	17	1.98E+02	-0.675166719	17
-0.473505224	4	4.16E+00	-0.06697393	4
-0.023221573	1	7.94E-01	0	1
-0.293560818	8	5.70E+00	-0.694421611	8
-1	7	1.09E+02	-0.774121477	7
-0.646039536	14	2.21E+02	-1	14
-0.908719055	9	1.41E+02	-0.008155224	9
0.028187668	7	1.23E+00	1	7
0.464708124	21	6.91E-02	0.819985453	21
-0.41134293	10	1.62E+01	0.076830376	10
1	38	1.44E-07	1	38
-0.267480564	12	1.14E+01	-0.458024575	12
1	11	1.89E-03	2	11
0.389690003	4	3.24E-01	1	4
0.783618732	12	2.05E-02	-0.281086324	12
0.93824778	82	1.09E-10	1	82
-0.007639749	14	2.93E+00	-0.010732157	14
-0.533499132	13	7.63E+01	-0.282259148	13
-0.939026701	4	1.65E+01	-0.582768158	4
-0.615292993	6	1.24E+01	0.285009317	6
1	20	4.26E-04	2	20
-0.728373576	7	2.75E+01	-2	7
2	10	3.43E-05	2	10
-1	11	1.88E+03	-0.704813575	11
-2	7	1.08E+03	0.370942489	7
-0.833436168	3	7.94E+00	-0.267014385	3
-0.792937037	17	2.01E+03	-0.367195643	17
-0.436641339	4	3.73E+00	-0.531146116	4
0.201656669	12	6.77E-01	0.921783452	12
0.03334748	1	7.17E-01	0	1
-0.178874956	9	4.03E+00	0.476837743	9

0.851095448	10	2.14E-02	1	10
-0.053844165	29	2.43E+01	-0.014243848	29
-0.279782971	3	1.91E+00	-0.643569658	3
-0.327783674	3	2.16E+00	-0.000569522	3
-0.188953979	3	1.51E+00	0.017815472	3
0.819650906	9	3.13E-02	0.521341566	9
0.828164112	8	3.73E-02	2	8
-0.297964217	11	1.10E+01	0.590508668	11
-0.323624616	5	3.34E+00	0.02766889	5
-0.628040156	10	5.04E+01	0.458019482	10
0.044066953	6	1.06E+00	0.049546352	6
-0.879462846	6	3.30E+01	-0.93941151	6
-2	15	5.10E+06	-1	15
0.750774358	16	1.18E-02	1	16
0.44606339	21	8.24E-02	1	21
-0.071435944	9	2.39E+00	0.46206901	9
-0.165804379	6	2.32E+00	0.736686966	6
0.323615303	7	3.67E-01	0.135799214	7
0.105817011	4	7.51E-01	-0.171416702	4
0.752184512	4	1.11E-01	-0.812175751	4
0.193921667	4	5.79E-01	-0.086253418	4
0.599063092	9	9.15E-02	0.684221384	9
0.120902538	2	6.45E-01	-0.246848323	2
-0.20722861	7	3.24E+00	0.251249561	7
0.545889444	16	5.53E-02	1	16
-0.52587668	3	3.60E+00	-0.920334446	3
0.047975794	13	1.85E+00	1	13
0.66670942	7	8.98E-02	1	7
-0.559480439	8	1.88E+01	1	8
2	5	7.75E-04	1	5
1	12	4.83E-04	2	12
2	16	6.38E-07	3	16
2	9	7.21E-05	3	9
1	3	6.44E-02	1	3
0.552038058	21	3.03E-02	1	21
0.67520415	18	1.52E-02	0.857319296	18
-0.547056043	7	1.31E+01	-0.635323365	7
-0.017237738	4	1.08E+00	0.440417802	4
-0.919810507	17	5.48E+03	-0.654958112	17
-2	9	9.42E+03	-2	9
-0.588073982	6	1.12E+01	-0.925308294	6
1	14	1.61E-03	2	14
0.78200735	4	1.02E-01	-0.89578139	4
2	5	3.28E-03	2	5
-0.749319327	2	4.35E+00	-0.131385924	2
-0.597407803	5	8.33E+00	-1	5
-0.560524047	6	1.01E+01	-0.64434948	6

1	6	1.11E-02	0.671521026	6
-0.526139327	6	8.87E+00	-0.25042216	6
-0.374846968	9	1.05E+01	0.701542568	9
-0.648564425	4	6.98E+00	-0.716193956	4
0.881834871	12	1.13E-02	2	12
-0.993523339	8	1.32E+02	-0.711257855	8
-1	6	6.76E+01	0	6
-0.047064539	13	3.40E+00	-0.237669185	13
0.201077207	6	5.93E-01	-0.834248991	6
0.346471301	14	2.66E-01	-0.394568174	14
0.716798685	13	2.57E-02	0.145105466	13
-0.077070841	7	1.90E+00	1	7
0.515806887	37	8.96E-03	0.780340275	37
0.004212325	24	7.20E+00	-0.286160429	24
-0.000172136	4	1.03E+00	0.282130381	4
-0.003366239	2	8.47E-01	0	2
-1	8	1.13E+03	0.262847078	8
0.401345935	11	2.15E-01	0.39619839	11
0.02908213	3	8.62E-01	-0.269770888	3
0.862392049	12	1.28E-02	2	12
0.847870814	1	1.64E-01	0.826465375	1
2	4	1.39E-03	0.921083509	4
1	13	7.77E-04	0.723700929	13
-0.460768456	4	4.01E+00	-0.15605379	4
-0.746975204	5	1.37E+01	-0.015606162	5
-1	1	5.93E+00	-0.173818258	1
-0.397209758	126	6.91E+13	-0.227236244	126
-0.199571872	26	8.87E+01	-0.821280755	26
-0.630965894	10	5.12E+01	0.532741242	10
-0.457586962	13	4.69E+01	0.674079036	13
-0.208233158	7	3.25E+00	-1	7
-0.28043605	6	3.56E+00	0.19740022	6
-0.031275055	12	2.75E+00	-0.793280789	12
0.178728894	70	4.78E+00	0.474762634	70
0.468195602	16	9.94E-02	1	16
-0.022998364	19	5.59E+00	-0.076569005	19
2	8	9.24E-04	1	8
3	9	1.65E-06	3	9
1	5	3.58E-02	1	5
0.335291864	3	3.92E-01	-0.68369781	3
0.826349408	9	3.03E-02	0.603240197	9
-0.305468092	9	7.47E+00	-0.041143234	9
-0.707817721	6	1.74E+01	0.732737755	6
-0.091909929	3	1.18E+00	0.224158407	3
-0.954235238	9	1.76E+02	-0.064883638	9
0.519396978	8	1.49E-01	0.215558786	8
0.80348456	8	4.17E-02	0.974870981	8

2	6	1.94E-03	2	6
1	4	1.41E-02	1	4
0.983396692	12	6.16E-03	1	12
0.80052962	5	7.84E-02	2	5
0.957330629	19	1.12E-03	2	19
0.906746663	62	4.27E-08	2	62
0.926920676	18	1.88E-03	2	18
0.513264572	11	1.15E-01	1	11
0.261547902	6	4.74E-01	0.632849971	6
0.070868813	2	7.20E-01	-0.702157028	2
-0.753339636	6	2.07E+01	-0.080239717	6
-0.762823812	12	2.24E+02	-0.727890421	12
0.717180687	23	4.48E-03	0.878588344	23
0.795262605	8	4.32E-02	1	8
0.882541775	19	2.14E-03	1	19
0.035423776	3	8.48E-01	0.191677722	3
-0.107996498	5	1.63E+00	0.000656808	5
-0.436053047	3	2.86E+00	0	3
-0.40574424	8	9.43E+00	0.070822058	8
0.134385176	4	6.90E-01	-0.340087225	4
0.728448634	13	2.39E-02	0.699456188	13
1	38	1.82E-08	1	38
-0.089273543	39	1.44E+02	-0.400032309	39
-0.332517416	11	1.34E+01	0.170288669	11
1	30	8.12E-06	1	30
0.107203858	10	1.06E+00	-0.641960095	10
-0.553768846	6	9.83E+00	-0.567059732	6
0.018207528	4	9.73E-01	-0.474550283	4
1	13	3.45E-03	2	13
0.458644283	7	2.11E-01	1	7
0.862759756	7	4.02E-02	2	7
0.25588748	8	4.85E-01	0.454228575	8
0.489437241	2	2.88E-01	0.565132803	2
0.490119026	1	3.14E-01	0.757703041	1
-0.370446777	5	3.91E+00	-0.366037201	5
0.950728363	21	6.99E-04	1	21
-0.675371871	10	6.46E+01	0.045589361	10
0.208609725	6	5.77E-01	-0.087929334	6
0.217203987	4	5.40E-01	0.563216728	4
-0.014814197	21	6.42E+00	0.023139708	21
0.990037684	4	5.50E-02	2	4
1	9	2.93E-03	2	9
1	2	8.25E-02	1	2
0.726322247	2	1.71E-01	0.721191763	2
1	6	1.99E-02	1	6
2	3	1.34E-02	1	3
0.348862092	2	3.92E-01	0.113492425	2

-0.035004511	1	8.11E-01	-0.115267562	1
0.203641695	3	5.50E-01	0.533248176	3
-0.040488803	3	1.03E+00	0.319823137	3
0.113915822	5	7.75E-01	0.275565292	5
-0.695629148	12	1.49E+02	-1	12
-0.793867623	11	1.80E+02	-0.159173949	11
0.166013205	42	2.49E+00	0.61018614	42
0.434529737	2	3.25E-01	0.422491687	2
0.653156404	3	1.73E-01	2	3
0.220183331	6	5.52E-01	0.737158939	6
-0.000161984	4	1.03E+00	0.751097265	4
2	26	1.99E-08	2	26
-0.684482464	9	4.72E+01	-0.319961616	9
0.417348142	21	1.08E-01	0.230493325	21
-0.79158451	4	1.07E+01	0.108236664	4
-0.328761131	8	6.68E+00	-0.343530806	8
-0.251645795	11	8.50E+00	-0.057395098	11
1	17	2.78E-04	2	17
1	34	9.66E-07	2	34
0.443092036	15	1.29E-01	2	15
2	3	3.62E-03	3	3
2	24	2.92E-08	2	24
0.020969294	6	1.16E+00	0.097302871	6
0.711520361	3	1.49E-01	0.18596026	3
0.274576544	5	4.54E-01	-0.704797552	5
-0.024363763	12	2.64E+00	0.107611032	12
0.73856986	6	8.03E-02	0.688270671	6
0.195598141	13	7.20E-01	-0.254942314	13
0.394178045	17	1.65E-01	0.639807505	17
2	10	2.15E-04	2	10
0.262032889	9	4.72E-01	-0.232849161	9
0.112509388	17	1.54E+00	1	17
0.719278372	16	1.50E-02	2	16
-0.012225931	4	1.06E+00	2	4
0.122634657	10	9.80E-01	0.208058074	10
-0.530446463	10	3.02E+01	-0.809134571	10
0.31282291	5	3.99E-01	-0.103660516	5
0.099288873	3	7.20E-01	1	3
0.275829048	11	4.36E-01	0.145845695	11
-0.455240312	7	8.96E+00	0.003993071	7
-0.383625834	7	6.68E+00	-0.204750606	7
1	55	1.06E-09	1	55
0.066985654	13	1.64E+00	0.643107353	13
0.508251893	14	8.87E-02	0.742447703	14
-0.019527335	37	3.72E+01	0.300078338	37
0.053687551	6	1.03E+00	0.186904392	6
0.65153021	12	4.53E-02	0.967649529	12

2	8	8.75E-04	2	8
1	8	1.05E-02	1	8
0.077659169	5	8.75E-01	0.426000443	5
0.627200751	34	2.41E-03	0.683425958	34
0.074235083	5	8.85E-01	-0.579896769	5
1	64	3.67E-14	2	64
1	10	1.25E-03	0.796332582	10
0.727922438	30	1.15E-03	1	30
-0.791392002	9	7.95E+01	-0.103167712	9
0.609403015	21	1.76E-02	2	21
0.482350495	14	1.06E-01	0.410224856	14
-0.792558963	9	7.99E+01	1	9
0.418673935	12	1.84E-01	0.570970603	12
0.175555555	5	6.31E-01	0.288361414	5
-0.266744937	8	5.06E+00	-0.164213002	8
-0.003006914	5	1.15E+00	-0.217689932	5
0.973809169	7	2.55E-02	0.020566204	7
0.974828458	6	3.33E-02	2	6
1	6	8.92E-03	0.99151251	6
-0.960909406	12	7.36E+02	-1	12
-0.600106978	25	6.04E+03	-0.544235853	25
-0.825244945	7	4.09E+01	0.038606556	7
1	14	4.63E-04	1	14
0.17518884	5	6.32E-01	1	5
2	7	2.10E-03	1	7
0.417607967	1	3.58E-01	-0.115267562	1
0.023806473	6	1.15E+00	1	6
0.554352347	28	1.35E-02	1	28
0.107573262	16	1.51E+00	1	16
1	12	3.08E-04	2	12
0.579940496	19	2.97E-02	0.954966919	19
1	4	2.05E-02	2	4
0.562375346	11	8.69E-02	1	11
0.664219295	3	1.68E-01	-0.067927913	3
0.460527813	2	3.07E-01	0.584395488	2
-0.473153946	10	2.24E+01	0.054852483	10
-0.723549593	14	3.75E+02	-0.691008515	14
0.679856022	6	9.99E-02	0.507293306	6
-0.112349294	14	5.95E+00	0.1663141	14
-0.605869483	7	1.66E+01	-1	7
0.041560777	6	1.07E+00	1	6
-2	26	1.17E+09	-2	26
-0.221694478	8	4.13E+00	-0.058453373	8
1	13	3.66E-04	1	13
2	17	5.36E-06	2	17
-0.015518287	13	2.78E+00	0.077645543	13
-0.031328992	1	8.06E-01	0	1

0.324509728	15	3.01E-01	0.632688717	15
0.0656068	9	1.23E+00	0.083086129	9
0.67858411	7	8.55E-02	0.345539599	7
2	13	2.70E-05	3	13
1	3	6.41E-02	2	3
1	7	5.66E-03	1	7
-0.536241585	13	7.76E+01	-0.256663987	13
0.896594489	11	1.32E-02	1	11
0.551291369	9	1.15E-01	0.544267089	9
0.120985447	8	8.89E-01	-0.050010119	8
3	8	9.10E-06	3	8
0.363967591	2	3.79E-01	0.480433811	2
-0.811634514	4	1.13E+01	-0.564423266	4
0.186808593	3	5.75E-01	-0.387253441	3
0.561349996	4	1.95E-01	0.108489709	4
-0.035495409	8	1.79E+00	-0.235089168	8
0.399001185	5	2.99E-01	-0.373048588	5
-0.877541236	4	1.37E+01	-0.051775947	4
0.453559697	8	2.00E-01	0.19650198	8
0.047593923	1	6.99E-01	0.119536874	1
0.262659092	20	4.67E-01	0.422154835	20
1	7	3.88E-03	2	7
1	14	5.59E-04	0.928137092	14
1	6	8.29E-03	0.665205414	6
-0.359486647	19	1.04E+02	-0.913299623	19
0.045882979	2	7.61E-01	0	2
-0.635483319	4	6.72E+00	-1	4
-0.706467094	13	2.31E+02	-0.45688288	13
-0.267420305	4	2.26E+00	-0.24099695	4
-0.655409399	9	4.10E+01	-0.404347341	9
1	7	2.02E-02	-0.38937981	7
-1	17	1.61E+04	-0.722797602	17
-2	14	9.83E+04	-1	14
-0.524940639	6	8.83E+00	0.179818974	6
0.158394285	15	9.88E-01	0.402048546	15
0.76301362	16	1.08E-02	1	16
0.02685204	5	1.04E+00	1	5
0.674554068	17	1.79E-02	0.62972123	17
0.828589099	2	1.37E-01	0.862645481	2
-0.073381181	4	1.28E+00	-0.185186816	4
2	13	1.58E-06	3	13
-0.296330614	9	7.14E+00	0.315869503	9
0.90005128	38	1.77E-05	2	38
1	15	8.40E-04	1	15
0.581961639	11	7.78E-02	0.4632657	11
0.263233413	15	4.66E-01	0.423628243	15
1	6	1.78E-02	1	6

-0.973771447	22	8.88E+04	-0.889220198	22
-1	6	7.61E+01	-0.637572055	6
0.660652109	5	1.25E-01	0.309275427	5
-0.166543269	3	1.43E+00	-0.50720167	3
0.030415327	16	2.70E+00	0.561323592	16
0.508536882	4	2.28E-01	0.938351204	4
-0.420605514	7	7.77E+00	0.037891855	7
-0.459171749	6	6.92E+00	-0.041814071	6
-0.292691739	7	4.60E+00	0.67687455	7
-0.152880514	3	1.38E+00	0.147846393	3
0.078823443	10	1.23E+00	0.455401785	10
-0.030342881	8	1.75E+00	0.009642895	8
-0.124571299	5	1.72E+00	0.613271287	5
0.41941591	27	7.37E-02	0.886859792	27
0.725604588	7	7.05E-02	2	7
0.007901014	3	9.11E-01	0.588463625	3
-0.011414405	54	1.92E+02	0.069180208	54
0.94879518	4	6.21E-02	0.418250487	4
-0.074719278	6	1.65E+00	1	6
-0.495096016	6	7.90E+00	-0.388553482	6
0.46847138	2	3.01E-01	-0.454779023	2
0.564354128	7	1.37E-01	-0.018140463	7
1	35	3.46E-07	1	35
0.688190637	2	1.86E-01	0.987807871	2
0.546606187	10	1.06E-01	1	10
0.414367562	5	2.84E-01	0.474392118	5
-0.005973499	4	1.04E+00	-0.11416708	4
-0.00811863	4	1.05E+00	0.04091753	4
0.243929879	4	4.99E-01	1	4
1	6	2.70E-02	2	6
-0.957792968	5	2.77E+01	-0.222274924	5
0.027232039	32	1.15E+01	0.555364986	32
-0.268043271	16	2.56E+01	-0.680554028	16
-0.707502967	3	5.74E+00	-0.199911993	3
-0.928654283	2	6.44E+00	-0.688899498	2
-1	18	9.79E+05	-1	18
1	4	2.29E-02	1	4
-0.315699001	11	1.22E+01	-0.149162589	11
-0.774147532	8	4.92E+01	-0.142345689	8
0.084333876	5	8.56E-01	-0.616546776	5
0.184333646	14	7.97E-01	0.516726833	14
1	8	8.51E-03	0.82973487	8
-0.760183478	13	3.25E+02	-0.519743597	13
0.086079898	12	1.36E+00	0.316053753	12
0.569000442	4	1.91E-01	0.929726711	4
0.91767289	5	5.30E-02	1	5
-2	4	1.11E+02	-2	4

-0.327842128	2	1.73E+00	-0.20580207	2
0.093898666	3	7.30E-01	0.046417869	3
-1	9	9.77E+02	-1	9
-2	15	7.47E+05	-2	15
-0.413274998	12	2.73E+01	-0.718109131	12
0.141686184	18	1.28E+00	0.954525333	18
1	30	1.96E-06	2	30
-0.208862012	11	6.68E+00	1	11
0.083972454	44	1.19E+01	0.322012163	44
-0.085580183	9	2.56E+00	0.376162251	9
-0.313138164	7	5.00E+00	-0.233783563	7
0.461452499	10	1.66E-01	0.766639129	10
0.792391241	4	9.87E-02	0.890879575	4
1	8	1.08E-02	2	8
1	9	1.20E-03	2	9
1	71	2.13E-15	2	71
0.736635834	19	7.61E-03	2	19
-0.835485991	6	2.80E+01	0.040769474	6
-0.397693748	11	1.94E+01	-0.262526076	11
-0.314853827	11	1.21E+01	0.125876033	11
0.837513928	32	1.80E-04	1	32
1	9	1.35E-03	2	9
-0.557911343	31	2.48E+04	-0.350481306	31
0.003270452	4	1.02E+00	0.817183304	4
0.497164013	7	1.80E-01	0.335121794	7
-0.107031458	16	7.60E+00	-0.311432468	16
1	2	7.97E-02	-0.28865539	2
0.785393488	19	4.98E-03	1	19
0.740085289	18	8.87E-03	1	18
1	14	1.89E-03	2	14
0.528307355	4	2.15E-01	1	4
-0.269664182	6	3.42E+00	-0.394193379	6
0.696571658	20	9.12E-03	1	20
0.429485768	111	2.91E-04	0.798105999	111
0.286136267	5	4.36E-01	0.913215097	5
-0.69826423	3	5.61E+00	0.070310212	3
1	4	2.99E-02	1	4
0.734020813	6	8.17E-02	2	6
-0.514799384	4	4.70E+00	-0.170066183	4
0.708031118	10	4.54E-02	0.969600446	10
0.654471928	7	9.44E-02	1	7
-0.000839536	14	2.80E+00	0.328126235	14
0.341611567	6	3.52E-01	-0.438783439	6
0.74212714	24	2.89E-03	0.707630501	24
-1	8	1.67E+02	-0.189367588	8
-0.569334607	8	1.96E+01	-0.132841666	8
-0.697107905	5	1.16E+01	0.339301469	5

0.717789452	36	4.60E-04	0.896355382	36
1	3	3.42E-02	2	3
3	6	9.94E-05	3	6
-0.054269714	7	1.73E+00	-0.012070419	7
-1	7	5.18E+02	-0.862565745	7
-1	7	1.50E+02	-1	7
-0.897913914	2	6.02E+00	-1	2
0.142710847	15	1.11E+00	0.002492615	15
0.889149196	11	1.38E-02	0.976697791	11
-0.454972117	18	1.81E+02	0.216678394	18
-0.864676432	5	2.03E+01	0.202298608	5
0.546244235	6	1.64E-01	0.673570963	6
0.791432649	9	3.59E-02	2	9
0.599541111	6	1.35E-01	2	6
0.030027714	5	1.03E+00	0.614010205	5
0.638240794	6	1.17E-01	1	6
0.713868339	6	8.80E-02	1	6
0.835263715	13	1.21E-02	0.869090926	13
0.717996236	10	4.31E-02	0.275429761	10
1	11	3.72E-03	0.727141512	11
-0.170533287	10	4.57E+00	0.36558877	10
0.479008641	18	7.75E-02	0.230340095	18
2	7	2.03E-03	1	7
-0.027530563	2	8.94E-01	0.303954153	2
-0.652339312	7	2.01E+01	-0.729839137	7
3	44	4.28E-19	3	44
0.324764417	16	2.93E-01	0.600051854	16
0.062705831	10	1.34E+00	0.592314127	10
-0.111677118	3	1.24E+00	2	3
0.568690578	50	8.52E-04	0.878308352	50
-0.748048394	12	2.05E+02	-0.899402468	12
-0.033807161	4	1.13E+00	-0.022321902	4
0.023720681	8	1.37E+00	0.509841547	8
0.347275116	5	3.56E-01	0.959294269	5
-0.62494117	8	2.52E+01	0.811791761	8
1	60	5.59E-14	2	60
-0.190147575	15	1.20E+01	0.192866398	15
-0.91722241	18	8.42E+03	-0.823645257	18
0.624318431	9	8.10E-02	1	9
1	10	1.26E-03	2	10
1	8	8.75E-03	1	8
1	16	8.49E-04	2	16
0.287073137	16	3.89E-01	1	16
0.85223748	7	4.20E-02	2	7
0.998938691	11	7.44E-03	1	11
0.516119066	6	1.84E-01	1	6
0.848808965	5	6.67E-02	0.772253008	5

-0.681385247	8	3.25E+01	-0.623299908	8
0.873717493	24	7.17E-04	2	24
-0.521338811	9	2.14E+01	0.769811903	9
0.402495361	6	2.80E-01	0.331372501	6
-0.671012059	11	9.02E+01	-0.161317607	11
-0.712974773	8	3.74E+01	-0.397198484	8
1	19	3.50E-05	2	19
1	4	5.12E-02	0.820367853	4
0.570045728	23	2.02E-02	1	23
2	3	6.48E-03	2	3
1	13	1.23E-03	2	13
0.312136331	23	2.81E-01	0.650946242	23
0.361721547	19	1.98E-01	1	19
-0.187959808	10	5.00E+00	-0.02624316	10
0.079624506	6	9.32E-01	0.321043845	6
1	4	3.62E-02	2	4
0.679497037	5	1.17E-01	1	5
0.300009859	11	3.81E-01	0.397086638	11
0.399112456	46	3.42E-02	0.513177647	46
0.533664711	23	2.92E-02	0.266521278	23
2	16	2.89E-07	2	16
0.292556634	6	4.22E-01	2	6
2	19	1.10E-06	3	19
0.300704353	14	3.62E-01	0.847352747	14
2	4	8.17E-04	3	4
0.729879898	12	2.83E-02	1	12
0.015989704	11	1.88E+00	-0.22421924	11
0.522979805	6	1.79E-01	0.955417293	6
0.251848134	2	4.84E-01	-2	2
-0.609245418	4	6.22E+00	0.358945965	4
-0.142483828	12	5.36E+00	0.456274657	12
-0.199477677	32	2.54E+02	0.756141328	32
0.110405107	5	7.85E-01	0.167792139	5
0	1	7.61E-01	0	1
-1	8	2.16E+02	-0.925109087	8
-0.028063058	1	8.01E-01	-0.09175425	1
-1	7	1.46E+02	-1	7
-1	11	3.05E+03	-0.31898497	11
-1	2	8.78E+00	-0.404553027	2
-0.090972324	13	4.50E+00	0.2119339	13
2	10	3.70E-05	2	10
0.777237985	14	1.43E-02	1	14
0.014127669	2	8.16E-01	-0.043296884	2
0.176885004	33	1.54E+00	0.651330394	33
-0.13887544	6	2.10E+00	-0.314338266	6
0.034454741	2	7.80E-01	-0.331275999	2
-0.101878796	3	1.21E+00	-0.082396624	3

-0.089846361	4	1.34E+00	-1.70E-05	4
-0.075908071	2	9.93E-01	-0.000308735	2
1	21	7.32E-06	2	21
2	13	4.40E-05	2	13
-0.070900546	4	1.27E+00	-0.39370582	4
-0.40830184	15	5.71E+01	-0.610790891	15
-0.093890836	14	5.25E+00	0.178823892	14
-0.556754835	16	2.26E+02	-0.38479324	16
-0.083960717	9	2.54E+00	0.225491338	9
0.583847889	10	8.71E-02	0.895502163	10
-0.96215824	7	7.17E+01	-0.120685223	7
0.161069422	7	7.15E-01	0.073676395	7
1	6	1.04E-02	0.531614224	6
-0.136993182	15	8.19E+00	0.119283582	15
0.14190143	6	7.39E-01	0.245201587	6
-0.077056101	18	7.85E+00	0.388814991	18
-0.307061024	19	6.59E+01	-0.055744245	19
0.084897464	4	7.99E-01	0.481543708	4
0.556655788	5	1.77E-01	0.520373521	5
0.051803376	5	9.54E-01	0.656672298	5
0.285705203	7	4.29E-01	0.368688491	7
1	12	2.87E-03	1	12
0.215592229	2	5.24E-01	0.567972292	2
0.337424578	36	1.48E-01	0.345688021	36
0.211189866	10	6.16E-01	0.288059005	10
0.409843866	20	1.23E-01	0.361531798	20
1	6	2.10E-02	0.712628069	6
-0.092385691	15	5.95E+00	-0.219742358	15
-0.592104598	10	4.17E+01	-0.182629385	10
0.317084356	11	3.46E-01	0.697064989	11
0.412843905	19	1.27E-01	2	19
0.056591904	4	8.68E-01	-0.904733118	4
-0.557910453	8	1.87E+01	-0.582376256	8
0.98576983	20	6.62E-04	0.621529535	20
-0.148462752	1	9.96E-01	-0.321382927	1
-0.730680947	6	1.90E+01	0.735113614	6
-0.306350709	3	2.04E+00	-0.213472016	3
-0.194424232	4	1.82E+00	1	4
1	11	5.52E-03	2	11
2	2	2.61E-02	0.112337773	2
0.237077458	3	5.05E-01	-0.802090281	3
-0.209933576	13	9.63E+00	0.002486619	13
-0.832769959	4	1.20E+01	-0.526860517	4
-0.62628663	6	1.29E+01	-1	6
0.367647664	15	2.21E-01	0.834497769	15
0.114890685	5	7.73E-01	-0.206098466	5
1	8	8.54E-03	2	8

1	22	8.12E-05	2	22
0.170604834	10	7.62E-01	-0.269786349	10
-0.66915649	9	4.38E+01	-0.43430581	9
-0.56586278	8	1.93E+01	-0.306328945	8
0.770391334	18	6.89E-03	0.428713636	18
1	3	3.36E-02	2	3
2	7	1.03E-03	2	7
-0.38034781	8	8.42E+00	-0.812954506	8
-0.151224085	7	2.57E+00	-0.378401128	7
-0.224394709	4	1.99E+00	-0.027359752	4
-0.284731277	2	1.57E+00	-0.440470656	2
0.655266845	26	5.37E-03	0.558310809	26
-0.114519936	6	1.92E+00	1	6
0.903363006	4	7.11E-02	2	4
0.568391848	11	8.40E-02	0.755127739	11
0.349381951	4	3.65E-01	-0.601302787	4
-1	11	6.40E+03	0.139370585	11
-0.007494509	17	3.98E+00	0.43571854	17
0.415773139	9	2.23E-01	0.878659397	9
1	6	9.55E-03	0.784124279	6
0.219784028	3	5.28E-01	0.467769319	3
0.872353468	9	2.42E-02	1	9
0.83735076	47	6.64E-06	0.864337877	47
0.475676435	4	2.52E-01	0.593920362	4
0.004219367	11	2.01E+00	0.572723452	11
0.247424124	9	5.07E-01	0.707066438	9
0.146870854	6	7.25E-01	-0.110575573	6
-0.239937629	17	2.51E+01	0.461424878	17
0.258014476	8	4.81E-01	0.65458741	8
0.775172507	3	1.26E-01	0.248339006	3
0.776678294	20	4.41E-03	0.831621499	20
-0.634158757	4	6.69E+00	-0.790496027	4
-0.825562015	12	3.26E+02	0.423714273	12
-0.031809704	13	3.08E+00	0.636113471	13
0.822376968	6	5.88E-02	0.790760992	6
0.976905194	22	4.15E-04	0.680594343	22
2	8	1.51E-04	2	8
0.625984218	6	1.22E-01	0.890631217	6
-0.211134909	8	3.94E+00	-0.180345907	8
-0.560602067	1	2.10E+00	-0.000251871	1
0.37289477	6	3.13E-01	-0.150195983	6
3	8	3.46E-06	3	8
2	9	2.68E-04	2	9
0.698798742	9	5.63E-02	0.479357667	9
0.119876297	17	1.45E+00	0.58364667	17
0.209843591	9	6.08E-01	1	9
0.646060442	6	1.13E-01	1	6

1	7	6.60E-03	1	7
-0.416058116	6	5.89E+00	-0.60624972	6
-0.723254743	7	2.69E+01	-0.611430511	7
-0.915463081	13	8.77E+02	-0.203990772	13
-0.967330803	2	7.01E+00	-0.442870532	2
-0.00750766	12	2.38E+00	0.365882094	12
0.213167906	4	5.47E-01	-0.373382135	4
0.789065276	14	1.32E-02	0.807631169	14
0.439509087	6	2.44E-01	1	6
0.134667346	8	8.36E-01	0.956933588	8
0.236204186	6	5.20E-01	0.879241943	6
0.217694502	9	5.86E-01	1	9
-0.074261709	11	3.13E+00	0.30108283	11
-0.542003338	5	6.93E+00	-0.911075276	5
-0.66358786	3	5.13E+00	-0.161748932	3
-0.691568035	8	3.40E+01	-0.387572368	8
-1	11	3.00E+03	-0.891350197	11
-0.092908323	9	2.65E+00	-0.574771853	9
0.026912336	5	1.04E+00	0.325396532	5
0.129497341	3	6.66E-01	-0.765474377	3
2	44	3.64E-12	2	44
1	6	5.18E-03	1	6
0.310397827	12	3.52E-01	1	12
0.47727008	10	1.52E-01	0.148381224	10
0.424301144	19	1.15E-01	2	19
0.973338165	54	7.07E-08	2	54
-0.316404087	1	1.35E+00	-1	1
-0.302898736	15	2.69E+01	0.282721288	15
-0.524401075	5	6.53E+00	-0.929649165	5
-0.155718229	16	1.10E+01	1	16
0.895124088	11	1.33E-02	1	11
0.227432802	2	5.11E-01	0.852793055	2
0.925826061	8	2.41E-02	-0.010481165	8
-0.262356763	9	6.06E+00	-0.523230918	9
-0.217571642	7	3.38E+00	0.662841125	7
0.276560405	6	4.48E-01	0.239281496	6
0.272979673	5	4.56E-01	0.206726978	5
0.581473384	1	2.66E-01	0.376996039	1
0.03845864	13	1.97E+00	0.230289839	13
1	15	7.22E-04	2	15
0.117951807	4	7.24E-01	-0.088319976	4
0.055119399	3	8.06E-01	0.550201851	3
-0.000287507	1	7.62E-01	0	1
1	15	2.72E-04	2	15
0.903666668	7	3.40E-02	0.923254836	7
1	3	5.07E-02	0.668073968	3
-0.177324826	4	1.73E+00	0.380007323	4

0.349090198	25	1.80E-01	0.42039251	25
-1	2	1.28E+01	-0.049828462	2
-1	8	1.52E+02	-0.707172949	8
1	30	2.00E-05	1	30
0.097155107	8	9.89E-01	0.85608233	8
1	6	6.89E-03	0.707664066	6
-0.86814952	2	5.64E+00	-0.517340071	2
0.292746741	5	4.27E-01	0.65418677	5
-0.249203165	16	2.22E+01	0.020038456	16
0.424245096	14	1.57E-01	0.250905284	14
0.157134538	12	8.85E-01	0.337121304	12
0.393521681	8	2.62E-01	0.020508133	8
0.596661411	6	1.36E-01	2	6
-1	3	1.44E+01	-0.636520453	3
-2	7	1.64E+03	-1	7
0.773388283	17	8.18E-03	0.656604814	17
2	3	8.72E-03	2	3
0.49255	13	1.08E-01	0.627844084	13
-0.095355559	4	1.36E+00	1	4
0.266864148	19	4.50E-01	-0.565472626	19
-0.370943543	12	2.12E+01	-0.74756932	12
0.488809707	14	1.01E-01	1	14
0.566939139	4	1.92E-01	-0.756410175	4
0.067044272	17	2.20E+00	0.162834168	17
-0.049906674	12	3.07E+00	0.307792877	12
0.336462244	25	2.07E-01	0.822239546	25
0.479370038	3	2.71E-01	0.482928155	3
0.56895172	26	1.43E-02	0.712185521	26
1	33	1.33E-06	2	33
-0.998008005	6	5.13E+01	0.0618621	6
1	10	2.84E-03	2	10
-0.880947588	11	2.94E+02	-0.10598831	11
1	15	1.04E-03	1	15
0.599640331	8	1.04E-01	0.6649737	8
2	14	1.75E-05	3	14
0.7300087	24	3.29E-03	2	24
-0.10140401	7	2.10E+00	0.711966804	7
-0.388806743	8	8.74E+00	0.152196794	8
0.844272503	15	7.28E-03	1	15
0.539018449	24	2.49E-02	0.714983316	24
2	5	7.33E-03	3	5
-0.760255256	5	1.44E+01	-0.052525435	5
-0.141080861	2	1.15E+00	-0.616464769	2
1	9	2.56E-03	0.554983115	9
0.106732327	9	1.00E+00	0.838876307	9
-0.186238669	3	1.50E+00	-0.340647228	3
0.964177017	17	1.80E-03	1	17

-0.215745931	11	6.95E+00	-0.485763228	11
-0.038440944	2	9.15E-01	0.009697179	2
0.466329953	6	2.21E-01	0.629787419	6
0.72244079	3	1.45E-01	1	3
0.745798351	4	1.13E-01	2	4
0.230316112	3	5.14E-01	0.494818217	3
0.701887924	7	7.77E-02	1	7
0.571262691	3	2.14E-01	0.432726754	3
0.833649672	3	1.09E-01	0.767421204	3
0.549038126	8	1.30E-01	0.633681318	8
0.83861154	39	3.79E-05	2	39
-0.672804997	7	2.19E+01	-0.265651537	7
0.871651599	15	5.99E-03	2	15
1	7	1.36E-02	2	7
0.947376941	69	2.45E-09	1	69
1	10	8.41E-03	1	10
3	4	1.20E-04	3	4
3	8	1.04E-06	3	8
1	22	1.34E-04	1	22
-0.457544634	1	1.74E+00	0	1
-1	5	3.23E+01	-2	5
-0.051305423	6	1.52E+00	-0.522571599	6
0.155537835	15	1.01E+00	-0.334349426	15
0.274033512	3	4.59E-01	0	3
-0.126120528	22	2.13E+01	-0.438205823	22
-0.036720504	3	1.02E+00	2	3
0.104712499	5	8.00E-01	0.418414774	5
0.05673573	7	1.10E+00	-0.423654795	7
0.883575772	46	3.44E-06	1	46
0.951544662	6	3.64E-02	0.827539458	6
-0.480577747	3	3.20E+00	-0.208068004	3
0.160347251	4	6.39E-01	-1	4
0.761626893	11	2.83E-02	1	11
-0.292369568	21	8.85E+01	-0.377121073	21
-0.372627497	9	1.04E+01	-0.153186745	9
-0.204504902	13	9.30E+00	-0.545481954	13
1	10	2.14E-03	2	10
0.240675567	13	5.40E-01	0.901414309	13
0.376006838	4	3.38E-01	0.322410132	4
0.597520898	20	2.24E-02	0.821106412	20
0.630447721	8	9.05E-02	1	8
0.056805301	19	2.79E+00	0.732372812	19
0.201699651	5	5.78E-01	0.182074458	5
0.319428513	23	2.61E-01	0.871910135	23
-0.045158843	28	1.94E+01	0.128832364	28
0.121136287	20	1.68E+00	0.139496848	20
-0.121924599	7	2.28E+00	0.398791301	7

0.083172816	31	5.01E+00	-0.171025866	31
0.49184593	10	1.41E-01	0.57588693	10
1	7	5.69E-03	0.970755957	7
-0.017669153	2	8.74E-01	-0.586488889	2
-0.048159502	15	4.33E+00	0.415519989	15
0.025745161	31	1.07E+01	-0.183724774	31
0.10487339	3	7.09E-01	-0.013915387	3
-0.728693315	7	2.75E+01	0.556852559	7
-1	14	1.39E+04	0.022982547	14
2	11	4.57E-06	2	11
-0.39490928	4	3.30E+00	-2	4
-0.723137157	8	3.92E+01	0.0566359	8
0.573636664	5	1.67E-01	-0.095427185	5
3	19	1.14E-09	3	19
0.259409284	16	4.80E-01	2	16
-0.56808272	8	1.95E+01	0.356511863	8
0.953515194	7	2.77E-02	0.632344999	7
1	44	6.67E-09	2	44
-0.769821269	13	3.46E+02	0.335594022	13
-0.035288837	9	2.01E+00	1	9
-0.246287422	2	1.44E+00	2	2
0.964892944	5	4.53E-02	0.310154258	5
1	27	4.19E-07	2	27
0.789680156	4	9.94E-02	2	4
0.278681421	7	4.41E-01	1	7
0.394051243	18	1.57E-01	1	18
-0.593500419	14	1.55E+02	1	14
0.149842506	20	1.30E+00	-0.091253433	20
0.717695724	9	5.14E-02	0.565771136	9
0.556783614	9	1.12E-01	-0.364330645	9
0.389368585	29	9.50E-02	0.558052401	29
0.128683606	13	1.10E+00	-0.404860333	13
0.047428049	5	9.68E-01	-0.266604181	5
-0.204351123	6	2.68E+00	-1	6
-0.149232008	3	1.36E+00	-0.329320526	3
-0.184056038	4	1.77E+00	-0.092345201	4
-0.018840955	9	1.85E+00	0.181894654	9
-0.282925292	3	1.93E+00	-0.251680924	3
-0.623750692	16	3.74E+02	-0.372611721	16
-0.504114008	14	8.47E+01	-0.411631662	14
-1	4	2.37E+01	-0.326158925	4
-1	8	2.79E+02	-1	8
-0.196883039	3	1.54E+00	-1	3
-0.151875034	11	4.85E+00	0.055983418	11
-0.007433246	3	9.47E-01	-0.037985432	3
-0.462058809	10	2.11E+01	0.003642672	10
-0.637228373	9	3.75E+01	-0.779555001	9

-0.678826366	13	1.93E+02	-0.359649024	13
-0.321759984	6	4.15E+00	0	6
0.48557486	11	1.34E-01	1	11
-0.050434673	2	9.40E-01	0.090212649	2
-0.286462832	1	1.28E+00	-0.000769043	1
1	6	8.05E-03	0.704434168	6
0.183210782	5	6.15E-01	0.817392467	5
-0.094583803	12	4.02E+00	0.189632714	12
0.951848357	5	4.73E-02	1	5
-0.6418076	12	1.08E+02	0.028842463	12
-0.802913624	14	6.41E+02	-0.363509123	14
-0.768076271	5	1.47E+01	-1	5
-1	8	3.12E+02	-1	8
-0.241505776	6	3.08E+00	0	6
-0.027537896	6	1.39E+00	-0.424297483	6
-0.95549654	5	2.75E+01	-1	5
-0.854261901	8	7.05E+01	-1	8
-0.770727212	8	4.85E+01	-0.519010431	8
-0.2060794	5	2.26E+00	-0.196057788	5
-0.685413404	5	1.12E+01	0.039572511	5
0	2	8.41E-01	-0.495474549	2
0.13419439	8	8.38E-01	0.205180359	8
-0.348892258	5	3.63E+00	0.039055622	5
-0.219718351	6	2.84E+00	0.247699476	6
-0.972774885	3	1.14E+01	-0.690307157	3
-0.420249414	7	7.76E+00	-0.949798946	7
-0.752471337	5	1.40E+01	-0.023001792	5
-0.970981754	6	4.64E+01	-0.412942708	6
-2	2	2.77E+01	-0.756205732	2
2	10	1.89E-04	2	10
-0.688744105	26	2.30E+04	-0.089539252	26
-0.766549505	13	3.39E+02	-0.742050604	13
-0.897317394	15	1.89E+03	-0.936841172	15
-0.206367373	5	2.26E+00	-0.090429519	5
-0.354380984	5	3.70E+00	-0.767655303	5
-0.353220535	4	2.92E+00	0.053573645	4
-1	2	8.98E+00	-0.794455264	2
-0.877020961	8	7.81E+01	-0.908382232	8
-0.638735118	5	9.56E+00	-0.707066652	5
-0.108885748	5	1.63E+00	-0.262934195	5
-0.940962106	7	6.57E+01	-0.015597414	7
-0.572878234	4	5.58E+00	-0.105872348	4
-0.086305883	4	1.32E+00	-0.232057504	4
-0.474657883	5	5.53E+00	-0.172654034	5
0.296284912	5	4.22E-01	-0.973642447	5
-0.11256107	2	1.08E+00	-0.009808815	2
-0.998632743	2	7.51E+00	-0.995928981	2

-0.33695382	7	5.51E+00	-0.250648757	7
0.506117232	6	1.91E-01	1	6
0.915753759	3	8.80E-02	0.881129085	3
1	14	1.65E-04	2	14
-0.586160586	6	1.11E+01	0.187924197	6
-0.683657749	5	1.11E+01	0.125323218	5
0.154845349	9	7.95E-01	2	9
0.606115111	4	1.71E-01	0.55829391	4
-0.060725161	6	1.57E+00	0.082448723	6
0.616356983	7	1.10E-01	1	7
-0.00475373	6	1.28E+00	0.747141382	6
0.321987205	6	3.78E-01	0.702598713	6
1	3	6.87E-02	2	3
0.75227982	24	2.60E-03	0.958391017	24
-1	17	4.13E+05	-2	17
-0.190121409	2	1.28E+00	-0.141661026	2
-0.894220368	9	1.31E+02	-0.426952718	9
0.108058134	4	7.46E-01	0.929870781	4
0.484771226	7	1.89E-01	-0.174736076	7
2	28	1.06E-07	2	28
0.424435128	7	2.43E-01	0.148571134	7
0.139089103	8	8.20E-01	0.080685175	8
0.881570039	16	4.40E-03	2	16
1	10	9.71E-03	2	10
0.925402972	10	1.45E-02	1	10
-0.079994514	6	1.69E+00	0.226758171	6
-0.630005674	7	1.83E+01	-0.109290299	7
-0.75612923	2	4.41E+00	-0.110712981	2
-0.475698414	5	5.55E+00	-0.450381969	5
0.464730337	7	2.06E-01	-0.427757184	7
0.102035685	5	8.07E-01	1	5
-0.359410922	4	2.97E+00	-0.261926265	4
-0.489543985	5	5.81E+00	-0.15839642	5
2	12	9.29E-05	0.716015606	12
-0.547884082	6	9.62E+00	-0.671406868	6
0.039022358	6	1.08E+00	-0.122275166	6
0.909615104	8	2.59E-02	-0.206268012	8
0.602928842	15	4.10E-02	0.157219961	15
0.671154818	5	1.21E-01	-0.087018746	5
0.491916291	7	1.84E-01	0.463335712	7
0.598693731	4	1.75E-01	-0.115944525	4
-0.725608542	13	2.61E+02	-0.334071683	13
0.141735542	5	7.07E-01	-0.321261169	5
0.248418873	10	5.07E-01	0.576834197	10
0.194815859	6	6.07E-01	2	6
-0.215715191	6	2.80E+00	0.782139259	6
-1	13	4.71E+03	-0.89516799	13

0.521070331	18	5.47E-02	1	18
0.053162973	3	8.10E-01	-0.168396879	3
-0.564765471	6	1.02E+01	-0.869233925	6
-0.411848073	6	5.80E+00	-0.004970415	6
-0.633857213	16	4.04E+02	-0.181131943	16
0.013289459	8	1.44E+00	0.516405177	8
0.912259389	13	7.37E-03	2	13
0.108205324	20	1.89E+00	1	20
0.149855371	4	6.59E-01	-0.396046677	4
0.423229893	6	2.59E-01	-0.332810367	6
0.445575337	21	8.28E-02	0.906545287	21
0.765652248	5	8.80E-02	2	5
1	15	1.15E-04	2	15
2	6	2.04E-04	3	6
0.328200006	12	3.17E-01	-0.089213531	12
0	1	7.61E-01	-7.51E-05	1
-0.371535507	6	4.99E+00	-0.171064612	6
-0.24435307	20	4.63E+01	-0.249960401	20
-0.595416555	7	1.59E+01	0.265224244	7
-0.234893136	6	3.00E+00	-0.654337626	6
-0.457670593	9	1.57E+01	-0.695208055	9
-1	8	1.68E+02	-0.540532273	8
-0.952770342	9	1.74E+02	-0.454820088	9
-0.204196245	8	3.82E+00	0.978815331	8
-0.704872533	10	7.54E+01	-0.823145731	10
0.682969207	1	2.21E-01	0.966759739	1
-0.192116052	12	7.23E+00	-0.879664255	12
-0.430469834	7	8.09E+00	-0.115878218	7
0.314575163	4	4.05E-01	1	4
0.378586879	5	3.20E-01	-1	5
-2	8	1.76E+03	-2	8
-1	21	7.30E+06	-1	21
-0.939225784	9	1.63E+02	-0.602260596	9
-0.336136306	3	2.21E+00	-0.217807867	3
-0.60654656	6	1.20E+01	-0.423594372	6
-0.624152478	7	1.79E+01	0	7
-1	6	6.13E+01	-0.218076039	6
-0.73793199	7	2.86E+01	-1	7
-2	1	2.14E+01	-2	1
-0.546323342	15	1.53E+02	-0.679893199	15
-0.176787661	11	5.58E+00	-0.527010733	11
-1	6	5.34E+01	-0.503098524	6
-0.754248254	6	2.07E+01	-1	6
-0.254933033	4	2.18E+00	-1	4
-0.358098995	9	9.65E+00	-0.340749877	9
-0.491931076	4	4.40E+00	0.580448173	4
0.804399838	9	3.37E-02	0.696435285	9

4	34	2.06E-22	5	34
-0.334101228	6	4.34E+00	0.106267096	6
0.441811194	7	2.26E-01	-0.109738045	7
0.269038692	8	4.58E-01	-0.055173326	8
-0.607264503	42	1.84E+06	-0.382399893	42
-0.113158875	2	1.08E+00	-0.014567518	2
0	3	9.29E-01	-0.819766183	3
-0.076553976	3	1.13E+00	0.164431701	3
0.416065643	37	4.23E-02	0.865664066	37
-0.594153911	11	5.85E+01	-0.025892164	11
1	13	4.00E-03	2	13
-2	6	2.31E+03	-0.925559198	6
-0.737952292	7	2.86E+01	-0.137758593	7
0.171182067	14	8.71E-01	0.648106348	14
0.136402291	15	1.16E+00	0.299867297	15
1	17	3.17E-04	1	17
0.442695334	14	1.38E-01	0.510511607	14
1	4	3.70E-02	2	4
0.003814942	4	1.02E+00	-0.422418941	4
-0.071946701	3	1.12E+00	-0.348700092	3
1	23	6.03E-05	1	23
-0.337223309	8	6.94E+00	-0.403884768	8
-0.579836969	3	4.13E+00	-0.737491628	3
-0.015391836	2	8.70E-01	-0.121027352	2
0.969978936	29	6.67E-05	2	29
-0.439527651	5	4.92E+00	0.660200725	5
-0.567937448	10	3.68E+01	-1	10
-1	7	1.16E+02	-2	7
-0.085393111	4	1.32E+00	-0.732871856	4
2	21	2.05E-08	3	21
-0.160339999	11	5.09E+00	-0.190570883	11
0.79614092	5	7.95E-02	0.616874966	5
0.967053241	8	2.00E-02	0.60671779	8
-0.614717468	21	1.86E+03	-0.086004434	21
-0.52665373	3	3.60E+00	0.087631545	3
-0.050060053	7	1.70E+00	0.381862951	7
-1	1	7.69E+00	0.426073558	1
0.682919862	3	1.60E-01	1	3
0.128725338	15	1.22E+00	-0.016391953	15
0.358325618	4	3.56E-01	0.563358702	4
0.845535429	43	1.38E-05	1	43
0.780961945	16	9.39E-03	2	16
1	4	3.85E-02	1	4
0.534219881	11	1.02E-01	0.568520398	11
-0.212694864	15	1.41E+01	0.285769748	15
-1	9	5.19E+02	-0.806207064	9
-0.634535218	7	1.87E+01	-1	7

-2	3	2.21E+02	-2	3
-0.970696014	52	1.16E+11	-0.985861264	52
-0.010166681	2	8.60E-01	-0.036657407	2
0.011052881	4	9.94E-01	-0.642970757	4
0.524717392	13	8.78E-02	0.419506885	13
0.103392483	2	6.71E-01	-0.093381848	2
0.412114668	5	2.87E-01	0.229771221	5
-0.012697314	10	1.99E+00	1	10
-0.003437801	18	4.26E+00	-0.642702998	18
-0.517988162	17	2.27E+02	-0.336090504	17
0.222894677	4	5.31E-01	0.330226393	4
1	36	1.02E-08	2	36
0.082601243	10	1.21E+00	-0.953670912	10
0.783592896	8	4.55E-02	2	8
0.604243228	43	1.03E-03	0.619585914	43
-0.566439747	11	5.00E+01	-0.534637238	11
-0.290071413	3	1.96E+00	0.182479206	3
-1	7	1.57E+02	-0.044625692	7
-0.693306355	3	5.54E+00	-0.547226207	3
0.465371587	8	1.90E-01	0.622567043	8
0.241195029	6	5.11E-01	-1	6
0.604183784	12	6.02E-02	0.53252839	12
0.840420753	3	1.07E-01	0.767280962	3
-0.007145243	14	2.92E+00	0.66571202	14
-0.173118109	7	2.82E+00	-0.248736878	7
0.690294376	29	2.20E-03	0.783989887	29
0.113683848	1	6.20E-01	1	1
0.173719427	10	7.50E-01	0.580096334	10
-0.127678657	2	1.11E+00	0.999414318	2
0.678727378	11	4.51E-02	0.852088389	11
0.428419693	8	2.24E-01	0.852958297	8
0.994494789	23	2.64E-04	0.789316302	23
0.735882975	10	3.92E-02	0.466498468	10
-0.054348635	68	2.67E+03	0.472998787	68
-0.445607547	4	3.83E+00	-1	4
-0.099542715	4	1.38E+00	0.236238458	4
0.36581627	9	2.85E-01	2	9
0.58998042	55	2.93E-04	0.613070589	55
1	12	2.98E-03	2	12
1	6	1.11E-02	2	6
2	5	6.21E-03	3	5
0.183295949	16	8.52E-01	-0.764825018	16
-1	6	5.42E+01	-0.547324183	6
-0.417728128	20	2.23E+02	-0.524810672	20
-0.574934954	4	5.62E+00	-0.869957117	4
0	2	8.41E-01	-0.307849622	2
-0.613052406	5	8.78E+00	-0.370562166	5

-0.289705944	9	6.92E+00	-0.336588777	9
0.045112099	23	4.30E+00	0.590179697	23
0.013306403	17	3.37E+00	-0.104223178	17
0.434752687	3	3.03E-01	2	3
0.713988994	25	3.28E-03	1	25
-0.145706902	2	1.16E+00	0.244884439	2
0.234932451	3	5.08E-01	0	3
0.490695591	22	4.95E-02	0.743618431	22
-0.956193718	12	7.15E+02	-0.470897272	12
0.424040728	7	2.43E-01	0.550334246	7
0.917997241	7	3.20E-02	0.054532633	7
0.618704137	5	1.44E-01	0.151267696	5
0.819549339	7	4.80E-02	1	7
0.727818663	1	2.04E-01	1	1
0.300594316	10	3.85E-01	0.093515847	10
0.533011767	5	1.91E-01	-0.793812831	5
-0.743044634	14	4.27E+02	0.236822144	14
0.168156956	4	6.24E-01	0.049598363	4
0.537929828	10	1.11E-01	0.861130661	10
0.63639309	12	4.96E-02	1	12
0.010704491	11	1.94E+00	0.015910269	11
-0.030173248	6	1.40E+00	0.243229934	6
-0.349393664	7	5.80E+00	-0.362245889	7
0.564393901	8	1.22E-01	2	8
-0.218248255	4	1.96E+00	-0.756168259	4
0.005128539	16	3.26E+00	0.304337664	16
0.001432733	14	2.75E+00	0.506854301	14
0.478706219	2	2.95E-01	0.58844452	2
-0.708194332	5	1.21E+01	-0.390962189	5
-0.991057745	2	7.39E+00	0.549155676	2
0.781537903	5	8.35E-02	1	5
-0.436812977	8	1.08E+01	0.060825726	8
-1	2	1.82E+01	0.272615906	2
-1	2	1.30E+01	-1	2
-0.51585691	7	1.15E+01	-0.552908121	7
-2	2	4.39E+01	-0.256387915	2
-1	6	1.51E+02	-0.694639598	6
-0.524586747	6	8.82E+00	-0.356559107	6
-0.47370843	3	3.15E+00	-0.217570803	3
-0.454033022	6	6.78E+00	-0.041576001	6
-0.806397831	9	8.55E+01	-0.446351277	9
-1	8	1.25E+03	-0.762736374	8
-0.079284834	4	1.30E+00	-0.001140361	4
0.359907329	2	3.82E-01	0.28448647	2
1	11	9.22E-04	2	11
-0.482583042	7	1.00E+01	-0.554898765	7
0.038604106	5	9.97E-01	0.484816815	5

0.08350864	14	1.58E+00	0.065038053	14
-0.123915085	4	1.48E+00	-0.009962613	4
0.170831779	5	6.41E-01	-0.870130702	5
0.732452745	19	7.89E-03	1	19
0.685888035	19	1.18E-02	0.878959952	19
0.310944785	4	4.09E-01	0.116171295	4
0.977060826	17	1.63E-03	1	17
2	51	8.80E-19	3	51
2	21	2.96E-08	3	21
-0.394787563	3	2.57E+00	-3	3
-0.646822662	3	4.91E+00	-0.076238996	3
-0.229604402	8	4.28E+00	0.116061527	8
0.043458094	21	3.70E+00	0.166174547	21
2	9	8.14E-04	2	9
1	8	3.45E-03	2	8
0.53817171	8	1.37E-01	0.799755761	8
0.577194236	18	3.43E-02	0.796254366	18
0.035141659	7	1.20E+00	0.305363652	7
0.327882082	14	3.01E-01	0.495011651	14
0.139796131	3	6.48E-01	0.354395529	3
0.377899995	8	2.81E-01	0.551031142	8
-0.037401346	6	1.44E+00	-0.020338007	6
-0.910537462	6	3.71E+01	-0.742334867	6
0.26448687	5	4.69E-01	2	5
-0.164351568	5	1.96E+00	0.614669501	5
2	6	9.96E-04	2	6
0.874843847	6	4.84E-02	1	6
0.282806663	16	4.02E-01	0.579600504	16
-0.442874409	7	8.52E+00	-0.437911056	7
0.432729386	17	1.22E-01	0.466878025	17
-0.298177695	15	2.60E+01	0.210200342	15
-0.476865102	18	2.17E+02	-0.144167063	18
-0.719987204	18	1.64E+03	-0.832670983	18
-0.721764545	18	1.66E+03	-0.893362076	18
0.240869816	2	4.96E-01	0.250430712	2
0.422571751	14	1.59E-01	1	14
0.284705962	11	4.15E-01	0.46912703	11
2	6	8.99E-04	2	6
2	26	1.57E-07	2	26
2	5	4.58E-03	2	5
1	4	2.44E-02	2	4
-0.220387907	12	8.57E+00	0.041835796	12
1	41	1.13E-06	2	41
-0.338369817	6	4.41E+00	-0.222282516	6
0.354087543	20	2.04E-01	0.356276092	20
0.46501784	40	1.56E-02	0.479636367	40
-0.183448368	4	1.77E+00	-0.075381992	4

2	5	6.48E-03	2	5
2	3	1.90E-02	1	3
0.251532966	15	5.07E-01	0.588713898	15
-0.700032767	6	1.69E+01	-1	6
-0.587851876	7	1.54E+01	-0.256360647	7
0.349319659	28	1.62E-01	0.678016122	28
0.025126274	1	7.28E-01	0.040918619	1
2	8	1.64E-03	2	8
0.486333602	6	2.05E-01	0.949794024	6
0.665856346	88	3.23E-07	1	88
-0.821685774	22	1.99E+04	-0.301704839	22
-0.239977009	11	7.96E+00	-0.539394091	11
1	3	6.11E-02	0.129518427	3
0.211386613	15	6.76E-01	-0.483394171	15
-0.304433938	9	7.43E+00	0.312908662	9
-0.450199117	12	3.41E+01	-0.01445434	12
0.987015609	11	7.96E-03	1	11
1	7	1.41E-02	1	7
0.795585903	6	6.49E-02	1	6
-0.041211354	28	1.85E+01	0.662123418	28
0.513327891	5	2.04E-01	0.720690013	5
0.781633227	13	1.70E-02	1	13
0.523485966	38	7.19E-03	0.687122732	38
1	5	3.36E-02	0.949562034	5
0.702187852	10	4.68E-02	1	10
0.370169246	39	7.95E-02	0.603849319	39
0.234218692	4	5.14E-01	0.339652931	4
0.290130874	11	4.02E-01	0.759282187	11
0.426675831	20	1.05E-01	0.78413302	20
2	13	1.82E-05	2	13
0.95365944	10	1.25E-02	1	10
0.190611965	5	6.00E-01	-0.278057018	5
-0.229574669	10	6.23E+00	0.702802785	10
-0.003627048	3	9.38E-01	0.466010167	3
-0.457887519	14	6.19E+01	0.103528406	14
-0.117801694	1	9.42E-01	-0.132211213	1
0.180214824	10	7.25E-01	0.471117038	10
-0.122788461	4	1.48E+00	-0.027280063	4
-0.051543653	10	2.45E+00	0.377446177	10
0.366536575	6	3.20E-01	-0.490197656	6
-0.432786601	7	8.17E+00	-0.157097302	7
-0.921778715	2	6.34E+00	-0.574175351	2
-0.930890182	6	4.00E+01	-0.670383463	6
0.122588346	5	7.53E-01	-1	5
1	14	1.38E-03	0.552099815	14
0.016538386	1	7.39E-01	-0.027853786	1
-0.768299406	5	1.47E+01	-1	5

0.744614046	32	6.42E-04	1	32
-0.337065171	18	6.80E+01	-0.497887994	18
-0.375369185	2	1.92E+00	-0.130673082	2
-0.142925066	6	2.13E+00	0.64432558	6
-0.284409828	7	4.45E+00	0.572213528	7
0.208049431	5	5.66E-01	0.221559645	5
-0.756934755	9	6.72E+01	-2	9
-0.794418857	15	9.06E+02	-1	15
0.998731297	97	2.19E-13	0.997516497	97
0.651087901	10	6.12E-02	0.555387246	10
0.13937633	6	7.46E-01	0.245390599	6
0.414388346	40	3.64E-02	0.968780253	40
0.197215856	7	6.16E-01	-0.107140717	7
0.835976349	9	2.89E-02	0.987491411	9
0.021609943	11	1.83E+00	-0.050626552	11
3	10	6.90E-08	3	10
-0.461716725	6	6.98E+00	-0.704073868	6
0.073698959	8	1.10E+00	0.623920616	8
-0.310908409	2	1.66E+00	0.425951316	2
0.306916602	51	1.81E-01	0.799002238	51
0.143362636	13	1.01E+00	0.91070195	13
0.543735083	67	2.26E-04	0.802070076	67
0.097657796	4	7.69E-01	-0.491799463	4
0.313810036	6	3.90E-01	-0.450438382	6
0.364301007	2	3.79E-01	-0.000413686	2
0.371508304	10	2.66E-01	0.954046675	10
0.761203369	3	1.31E-01	0.342165568	3
0.60166856	10	7.93E-02	0.640698493	10
-0.947274161	9	1.70E+02	-0.621736035	9
-0.904850514	5	2.33E+01	-0.909737171	5
-0.426828022	6	6.13E+00	1	6
1	11	4.67E-03	1	11
-0.312603409	28	4.96E+02	0.228478561	28
-1	8	3.75E+02	0.876268186	8
3	5	2.95E-05	3	5
-0.263179463	5	2.73E+00	1	5
-0.228453974	5	2.43E+00	0.931268227	5
-0.340709039	5	3.54E+00	2	5
0.146170976	1	5.84E-01	0.213507325	1
0.240498552	8	5.20E-01	0.430152713	8
0.668491947	34	1.33E-03	1	34
-0.598479364	7	1.61E+01	-0.676874393	7
0.553388443	17	4.67E-02	0.691088743	17
1	8	8.32E-03	2	8
1	15	9.83E-04	0.5806872	15
0.493610778	12	1.17E-01	0.965793488	12
0.606552961	2	2.23E-01	0.104009193	2

0.009490522	3	9.07E-01	0.051944705	3
0.778030349	6	6.93E-02	0.251266654	6
-0.064789807	2	9.70E-01	-0.086373948	2
-0.278930751	7	4.35E+00	-0.057668915	7
0.535234462	102	7.25E-06	0.859573224	102
1	9	7.38E-03	0.577000945	9
-0.048293486	49	2.40E+02	0.277051388	49
0.963471362	7	2.66E-02	0.66929906	7
0.793349448	8	4.36E-02	1	8
0.595274865	4	1.77E-01	0.711108559	4
1	8	3.22E-03	0.780318209	8
0.629269572	15	3.39E-02	2	15
-0.31126592	39	5.40E+03	0.277086807	39
0.197178087	6	6.02E-01	0.359067977	6
-2	8	5.18E+03	-0.538152616	8
-1	14	2.26E+04	-1	14
0.933692863	8	2.32E-02	2	8
-0.004993431	9	1.73E+00	-0.570530492	9
0.055234803	11	1.51E+00	0.271952106	11
2	8	3.01E-04	0.820582509	8
1	14	1.66E-04	3	14
2	21	3.79E-07	2	21
0.302842339	13	3.63E-01	0.913313144	13
0.658604917	2	1.99E-01	1	2
0.982013501	5	4.28E-02	0.857066284	5
-0.694872383	2	3.86E+00	-1	2
1	27	1.33E-06	2	27
0.927388796	6	3.98E-02	0.51001374	6
-0.171906325	5	2.01E+00	0.021079195	5
0.399165239	10	2.30E-01	0.414338157	10
0.464571294	11	1.51E-01	1	11
0.131601325	9	8.90E-01	0.016167351	9
0.357052109	9	2.97E-01	-0.047199964	9
-0.335212522	6	4.36E+00	0.856648677	6
0.768884139	30	6.79E-04	1	30
0.56169177	8	1.23E-01	0.707444124	8
0	1	7.61E-01	-0.079580662	1
0.455850459	3	2.87E-01	0.022895575	3
1	21	2.51E-04	1	21
0.246285002	6	5.01E-01	0.524759859	6
-0.347310945	8	7.26E+00	0.247054802	8
0.095173475	14	1.46E+00	0.337172653	14
0.892640182	15	5.15E-03	0.83927567	15
0.048026594	4	8.91E-01	-0.192147065	4
0.534361277	9	1.25E-01	1	9
3	18	1.78E-10	4	18
-0.241113918	6	3.07E+00	0.159902846	6

0.454725663	3	2.88E-01	0.987391979	3
0.317866944	5	3.92E-01	0.671599424	5
0.32237081	12	3.28E-01	1	12
-0.21691933	6	2.81E+00	0.347242732	6
2	8	2.16E-04	3	8
2	18	4.02E-08	3	18
0.264080435	14	4.64E-01	0.185346192	14
-0.267836295	13	1.39E+01	0.138119773	13
0.945257466	26	1.99E-04	1	26
0.977114428	12	6.40E-03	1	12
2	7	1.67E-03	2	7
0.093001885	7	9.45E-01	1	7
0.791006341	13	1.60E-02	1	13
0.637407374	9	7.60E-02	1	9
0.366007169	1	3.93E-01	1	1
-0.229509192	11	7.51E+00	-0.838042995	11
0.688542236	6	9.67E-02	1	6
3	6	4.07E-05	2	6
2	6	1.53E-03	1	6
2	16	3.70E-05	3	16
0.81655471	9	3.18E-02	0.89807861	9
0.052292717	4	8.80E-01	0.770348392	4
0.845521078	6	5.39E-02	0.911231675	6
0.067924153	4	8.40E-01	0.150948209	4
-0.000232995	1	7.62E-01	-0.032068746	1
0.233940835	8	5.36E-01	-0.161286186	8
0.298966465	8	4.00E-01	0.289930975	8
0.971127224	4	5.82E-02	-0.006022071	4
0.673928889	41	4.07E-04	0.759443043	41
1	14	2.33E-03	1	14
0.940858024	64	1.08E-08	2	64
0.626657509	4	1.61E-01	-0.464171507	4
0.576507876	10	9.05E-02	0.912117928	10
1	11	5.31E-03	2	11
0.682526341	11	4.42E-02	1	11
0.565266994	14	6.03E-02	0.986943939	14
0.911273194	11	1.22E-02	1	11
0.702352388	15	2.01E-02	1	15
0.457258516	11	1.57E-01	0.048779104	11
1	1	9.02E-02	-0.663140139	1
0.121713977	14	1.22E+00	0.753308246	14
-0.341539322	11	1.41E+01	0.23634494	11
-1	3	2.68E+01	-0.925102164	3
0.135633522	11	9.61E-01	0.969667309	11
0.450060088	5	2.52E-01	0.883288402	5
0.064943103	4	8.47E-01	0.6023453	4
1	15	3.85E-04	1	15

0.156693971	31	1.89E+00	0.459896293	31
-0.155634383	16	1.10E+01	0.264842676	16
-0.439554039	18	1.59E+02	-0.126754261	18
0.228214337	26	6.87E-01	1	26
0.141552523	24	1.68E+00	0.716154319	24
1	28	2.66E-06	2	28
-0.0261053	8	1.72E+00	0.578423336	8
1	73	2.08E-16	2	73
-2	5	3.11E+02	-2	5
0.389681225	7	2.80E-01	0.392992744	7
0.01620279	6	1.18E+00	0.314077752	6
0.037124605	5	1.00E+00	0.015980711	5
0.421431209	3	3.14E-01	1	3
1	21	5.73E-06	2	21
0.179380666	90	8.74E+00	0.875007945	90
0.620587251	17	2.74E-02	1	17
-0.198478212	7	3.12E+00	-0.017898627	7
-1	5	6.81E+01	-1	5
-0.193103874	7	3.06E+00	-0.498517074	7
1	31	2.02E-06	1	31
2	20	4.55E-06	2	20
0.618461921	42	9.16E-04	1	42
2	17	1.08E-06	3	17
0.076956076	32	5.84E+00	0.248223485	32
0.685314262	18	1.40E-02	0.886930032	18
0.144033839	8	8.02E-01	0.514617691	8
0.049993093	4	8.86E-01	0.003726038	4
0.315532752	11	3.49E-01	1	11
0.060501807	11	1.47E+00	0.292974319	11
2	11	1.63E-05	2	11
1	7	6.36E-03	2	7
-0.000865157	8	1.54E+00	0.076466058	8
2	20	1.07E-08	3	20
3	2	1.50E-03	3	2
0.313901862	16	3.18E-01	0.722000308	16
-0.032669025	16	4.34E+00	0	16
-0.276213568	7	4.30E+00	0.111153727	7
-0.863526908	6	3.11E+01	-0.314687374	6
0.228310866	9	5.56E-01	0.283183617	9
2	1	4.16E-02	3	1
2	17	7.51E-07	3	17
-0.18055488	21	3.08E+01	0.105636743	21
-0.000399734	1	7.62E-01	-1	1
0.348792397	20	2.14E-01	0.278911478	20
-0.042969269	11	2.63E+00	-0.005765389	11
-1	7	1.23E+02	-0.444023259	7
-0.775409398	10	1.09E+02	-0.658193597	10

-0.95456993	6	4.37E+01	-0.506498435	6
-1	7	3.14E+02	-2	7
0.668592814	7	8.91E-02	0.725338978	7
-0.950402757	17	6.98E+03	-0.619923619	17
-0.21091197	3	1.60E+00	-0.013710624	3
0.883946857	21	1.31E-03	2	21
-0.618758907	17	5.04E+02	0.884211669	17
-0.803636383	3	7.35E+00	-0.143283981	3
-0.496104541	7	1.06E+01	-0.580293378	7
-0.255187365	12	1.06E+01	-0.258378277	12
0.915966659	31	7.94E-05	1	31
-0.441447004	8	1.11E+01	-0.14590596	8
-0.770902203	9	7.19E+01	-1	9
0.291294161	43	2.75E-01	0.730869422	43
0.012074887	7	1.32E+00	0.888266902	7
1	38	2.16E-07	2	38
-1	6	5.25E+01	-1	6
-0.313315793	5	3.23E+00	-0.426243199	5
-0.415280588	6	5.87E+00	-0.384544081	6
-0.315474118	6	4.05E+00	-0.184265943	6
0.304134966	10	3.78E-01	0.159202075	10
0.233130587	25	6.43E-01	0.671064551	25
-0.149898169	3	1.37E+00	0.377906202	3
0.202194682	4	5.65E-01	1	4
0.042279747	44	2.55E+01	0.200590006	44
-0.150178742	3	1.37E+00	-0.055411191	3
2	24	4.23E-08	2	24
3	9	2.52E-07	4	9
1	8	5.61E-03	2	8
0.479866655	4	2.49E-01	0.938107626	4
-0.226094401	2	1.38E+00	0.070909998	2
-0.326800731	11	1.30E+01	-0.607026295	11
0.36346283	5	3.37E-01	0.143760719	5
2	8	2.87E-04	2	8
3	10	2.10E-07	3	10
0.226853997	15	6.05E-01	0.183176739	15
0.09949119	6	8.65E-01	-9.33E-06	6
-0.197955513	9	4.43E+00	-0.086421487	9
-0.865377386	6	3.13E+01	0.014525279	6
-0.257200949	55	5.30E+04	0.141725387	55
-0.123521235	24	2.79E+01	0.0117693	24
0.333572653	3	3.94E-01	0.967407529	3
1	9	2.31E-03	2	9
0.000961403	5	1.13E+00	0.003144107	5
0.075297465	13	1.55E+00	0.048632009	13
0.22507987	11	5.81E-01	0.185806224	11
0.202988886	43	1.33E+00	1	43

0.381138729	4	3.33E-01	0.557605892	4
0.003915067	4	1.01E+00	0.024076961	4
0.055086411	5	9.44E-01	0.383874328	5
0.105964052	27	2.92E+00	0.175691558	27
0.056172514	11	1.50E+00	0.304268956	11
0.000676549	5	1.13E+00	-0.036735256	5
-0.378828415	9	1.07E+01	-0.656767105	9
-0.327513135	6	4.24E+00	-0.094684921	6
-0.212670245	29	1.77E+02	-0.177373811	29
-0.294486752	6	3.75E+00	0.365803419	6
-0.432392333	42	8.64E+04	-0.284593166	42
-0.559011783	16	2.30E+02	-0.843568324	16
-0.976807733	5	2.96E+01	-1	5
-1	12	1.74E+04	-1	12
-0.994530734	14	2.35E+03	-2	14
-0.463158699	18	1.94E+02	-0.377004144	18
0.17589879	18	9.61E-01	-0.10533649	18
-2.15E-05	6	1.25E+00	0.002528356	6
0.113641313	20	1.80E+00	0.138298993	20
0.017871076	6	1.17E+00	-0.033257199	6
-0.202491267	24	6.43E+01	0.133642147	24
-0.035892995	6	1.43E+00	0.115476998	6
-0.01040398	2	8.61E-01	0.074083196	2
0.820805201	59	7.02E-07	1	59
0.408487061	17	1.47E-01	0.92114667	17
-0.013942604	10	2.01E+00	0.002178554	10
0.049012698	8	1.23E+00	0.675698209	8
-0.005589438	7	1.42E+00	-0.004479007	7
-0.04300802	1	8.23E-01	-0.047845411	1
-0.048801245	14	3.87E+00	0.21246223	14
0.857762104	49	2.83E-06	1	49
3	23	9.34E-13	3	23
0	8	1.53E+00	0	8
-0.000943423	6	1.26E+00	-0.146944475	6
-0.000252116	1	7.62E-01	-0.037020146	1
-0.012530192	10	1.99E+00	-0.25184681	10
-0.021294156	24	9.43E+00	-0.211933113	24
-0.532075131	6	9.07E+00	0.09689826	6
-0.265311672	4	2.25E+00	-0.199688879	4
-0.538689801	11	4.28E+01	-0.505617796	11
0	3	9.29E-01	0	3
-0.000366266	3	9.30E-01	0	3
-0.012185163	1	7.78E-01	0	1
-0.067893948	3	1.11E+00	0	3
0	1	7.61E-01	0	1
-0.126791134	4	1.49E+00	0	4
-0.094961075	2	1.04E+00	0.146924778	2

2	25	9.95E-08	2	25
0.543433961	4	2.06E-01	3	4
0.455715175	15	1.18E-01	1	15
0.709690957	22	5.75E-03	1	22
-0.102839823	9	2.79E+00	0.158050628	9
0.009744098	5	1.10E+00	-0.28776934	5
-0.355656378	10	1.21E+01	0.182395383	10
-0.219566458	4	1.96E+00	-0.076509369	4
-0.080462691	4	1.30E+00	0	4
-0.029300904	2	8.97E-01	0	2
0.065416843	6	9.82E-01	0	6
0	3	9.29E-01	0	3
0	3	9.29E-01	0.439124766	3
0	5	1.13E+00	0	5
0	7	1.38E+00	-0.025087394	7
-0.690370643	5	1.14E+01	-1	5
-0.852141958	6	2.98E+01	-0.53686081	6
-0.134686718	3	1.31E+00	0.14400819	3
-0.152018434	3	1.37E+00	-8.56E-06	3
0.789335519	12	1.98E-02	1	12
-0.030915567	6	1.41E+00	-0.605652447	6
-0.367166556	6	4.91E+00	-0.718215075	6
0.05423719	10	1.40E+00	0.013721699	10
-0.459272889	3	3.03E+00	-0.447473106	3
-0.608883725	6	1.21E+01	-1	6
-0.264469287	10	7.48E+00	-0.048835027	10
-0.001879969	3	9.34E-01	-0.339727621	3
-0.210817438	5	2.29E+00	-0.324761551	5
-0.001451371	3	9.33E-01	-2.44E-06	3
-0.202566936	8	3.79E+00	0.440018864	8
-0.32594004	9	8.25E+00	-0.954778004	9
-0.352426864	6	4.65E+00	-0.132429608	6
-0.03507704	3	1.02E+00	0.317302603	3
-0.170707923	4	1.70E+00	-0.004534581	4
-0.817159522	6	2.62E+01	-1	6
-1	8	5.34E+02	-1	8
0.037185355	6	1.09E+00	-0.502959817	6
1	10	4.97E-03	2	10
0.285372504	2	4.50E-01	0.514752629	2
0.425891135	7	2.41E-01	0.560782582	7
-0.490737391	10	2.45E+01	-0.958061402	10
-0.842550434	7	4.39E+01	0	7
0.320384235	2	4.17E-01	0	2
1	7	1.07E-02	2	7
2	6	1.04E-03	1	6
0.378200001	3	3.51E-01	0.142604183	3
1	5	1.01E-02	1	5

0.344408263	14	2.69E-01	0.900469442	14
-1	5	3.45E+01	-0.276060061	5
-0.125928183	8	2.69E+00	-0.549596498	8
0.104898884	6	8.48E-01	2	6
0.357613831	4	3.57E-01	0.653542934	4
0.259855166	2	4.76E-01	0	2
-0.457454893	3	3.02E+00	-0.012462326	3
0.829525836	17	5.24E-03	0.972382777	17
0.012935462	5	1.09E+00	-0.016188917	5
-1	6	9.34E+01	-1	6
-0.208881664	3	1.59E+00	0.204105591	3
0.643814093	22	1.10E-02	0.828185443	22
0.399105303	10	2.30E-01	0.449118947	10
0.18651095	4	5.92E-01	0.300186294	4
0.332403968	5	3.74E-01	-0.571673983	5
-0.633053862	6	1.32E+01	-0.383912159	6
0.225792567	4	5.27E-01	0.027359885	4
-0.207268623	6	2.71E+00	-0.102624138	6
-0.139680877	8	2.86E+00	-0.228630935	8
-1	3	1.26E+01	-2	3
-0.131040717	4	1.51E+00	-0.42780455	4
-0.428677594	5	4.74E+00	0.036473232	5
-0.135626704	8	2.81E+00	0.239705522	8
-0.880903	15	1.68E+03	-0.706094718	15
-0.024901937	20	6.33E+00	-0.03115631	20
-0.560795169	7	1.38E+01	-1	7
-0.53276074	8	1.67E+01	0.926534287	8
-0.354604647	5	3.70E+00	2	5
0.453063222	3	2.90E-01	0	3
-0.895240371	1	3.85E+00	1	1
0.797334781	1	1.80E-01	-0.699391135	1
-2	4	1.50E+02	-2	4
-0.493931896	4	4.42E+00	0.543915021	4
-0.031016809	1	8.05E-01	0.051921024	1
-1	14	5.86E+03	-0.550750178	14
-0.810978307	3	7.49E+00	-1	3
-0.700969682	3	5.65E+00	-0.43051351	3
-0.577675763	7	1.48E+01	-0.205499629	7
-0.331860683	14	2.63E+01	-0.996931882	14
-0.66336374	7	2.10E+01	-0.270302021	7
0.001070003	3	9.27E-01	-0.013704471	3
0.208579078	28	8.94E-01	0.74045721	28
1	29	2.46E-06	2	29
0.159549547	10	8.08E-01	0.079371329	10
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
0.02380163	7	1.26E+00	0	7

0.394649369	70	1.09E-02	0.560008168	70
0.744866197	71	4.71E-07	1	71
0.287159247	10	4.13E-01	0.589698438	10
-0.597340715	5	8.33E+00	-1	5
-1	6	5.60E+01	-0.452606066	6
-0.522878024	6	8.76E+00	-0.203222072	6
0.005270366	32	1.55E+01	-0.004144025	32
0.341212793	8	3.31E-01	0.380884642	8
0.052295052	10	1.42E+00	-0.382232305	10
-0.83335194	6	2.78E+01	-0.177298321	6
-0.135558261	20	1.73E+01	-0.146720182	20
-0.038349912	6	1.45E+00	-0.065023124	6
-0.186484242	7	2.97E+00	-0.328598774	7
0.083560443	20	2.37E+00	-0.061205946	20
0.244019131	14	5.32E-01	0.59016852	14
0.227417925	19	6.34E-01	0.535755792	19
0.694861482	1	2.16E-01	2	1
1	7	1.55E-02	1	7
0.773964864	28	9.42E-04	1	28
-0.220744369	5	2.37E+00	0.227381469	5
-0.258968368	2	1.48E+00	0	2
0	1	7.61E-01	-0.035557437	1
-0.138549867	3	1.33E+00	-0.399856418	3
-0.847799089	10	1.60E+02	-0.710803814	10
-0.008485325	15	3.26E+00	0.433458405	15
-0.499223468	8	1.43E+01	-0.85578969	8
-0.985374316	13	1.37E+03	-0.954157246	13
-0.152635521	18	1.47E+01	-0.418013588	18
-0.522293385	23	1.41E+03	-0.673555134	23
0.092474901	23	2.65E+00	-0.002065073	23
-0.674102495	7	2.20E+01	-0.004201546	7
-0.396657868	12	2.47E+01	0.035633942	12
0.005330272	5	1.11E+00	-0.222213005	5
0.172195487	4	6.17E-01	0.565767588	4
0.186201194	13	7.65E-01	0.775086472	13
2	11	3.19E-04	2	11
0.047668601	10	1.45E+00	0.123452966	10
-0.184543347	9	4.15E+00	-1.07E-06	9
-0.157707673	13	6.90E+00	-0.26105285	13
-0.264892861	3	1.84E+00	0.014143328	3
-0.054960322	2	9.49E-01	0.491564464	2
-0.124558015	17	1.01E+01	0.240721263	17
-0.013676143	11	2.23E+00	-0.340218703	11
-0.933834494	24	1.49E+05	-0.329088128	24
-0.017921145	3	9.73E-01	-2	3
-0.145836051	16	1.02E+01	-0.08040612	16
1	7	1.57E-02	1	7

-0.362463936	13	2.55E+01	0.334025652	13
-0.443350618	18	1.64E+02	-0.022832356	18
0.74566045	16	1.23E-02	1	16
-0.140750912	6	2.12E+00	-0.115306318	6
0.146193189	12	9.46E-01	0.279099768	12
0.002239772	33	1.79E+01	0.091178919	33
0.269966589	10	4.52E-01	0.535638471	10
-0.699827304	40	4.44E+06	-0.562084721	40
1	17	9.34E-05	1	17
-0.692409771	3	5.52E+00	-0.521750088	3
-0.170416955	4	1.70E+00	0.139769031	4
0.008709799	8	1.47E+00	0.326081374	8
0.696208008	9	5.71E-02	0.977148066	9
0.71256967	34	7.04E-04	1	34
0.052159181	18	2.68E+00	-0.020550338	18
0.219156687	2	5.20E-01	0.165492224	2
-0.061272739	11	2.91E+00	0	11
-0.258308844	4	2.20E+00	-0.477197672	4
-0.000771284	6	1.26E+00	-0.349797386	6
0.699088796	33	1.01E-03	0.709780898	33
0.150669266	4	6.58E-01	0	4
-0.634596311	5	9.43E+00	0.306793478	5
-0.748722445	4	9.39E+00	0.285013094	4
-1	1	8.87E+00	0	1
-0.333533327	4	2.75E+00	0.124875128	4
0.275700212	37	3.76E-01	0.492164195	37
-0.402191694	6	5.59E+00	-0.138955693	6
-0.24335923	7	3.76E+00	-4.74E-05	7
0.0806123	59	3.56E+01	0.354620405	59
0.011138054	10	1.76E+00	0.744015398	10
-0.177746253	26	6.92E+01	-0.04459679	26
-0.421917832	9	1.32E+01	-0.18457525	9
-0.572342392	2	2.95E+00	-0.000165372	2
-0.331329537	23	2.01E+02	-0.341266076	23
-0.339552908	8	7.01E+00	-0.092932315	8
-0.443175254	9	1.46E+01	-0.628285587	9
0.205158325	7	5.97E-01	0.181069708	7
0.033465791	6	1.11E+00	0.095933244	6
0.319007412	13	3.27E-01	0.626779522	13
0.149487982	2	6.06E-01	0.146610419	2
-0.286867516	4	2.40E+00	-0.090618291	4
-0.106218748	7	2.14E+00	-0.319380272	7
0.299234938	12	3.77E-01	0.911154481	12
1	19	5.33E-05	2	19
0.090009332	83	1.36E+02	0.383199181	83
-0.349289891	9	9.25E+00	0.375427987	9
0.73163609	6	8.24E-02	0.728427765	6

0.782104331	3	1.24E-01	1	3
-0.052490841	9	2.18E+00	0.121986664	9
-0.336833547	8	6.93E+00	-0.665824898	8
-0.471845604	4	4.14E+00	-0.697246207	4
-0.041678131	2	9.22E-01	0	2
0.20463382	58	1.78E+00	0.501629746	58
0.048522262	10	1.45E+00	0.452972094	10
-0.044808517	8	1.87E+00	-0.489072339	8
-0.101606563	20	1.27E+01	0.379553751	20
0.056900466	11	1.50E+00	0.097433978	11
-0.101792755	4	1.39E+00	-0.131070312	4
0.130594325	20	1.55E+00	0.280410125	20
0.106852535	7	8.93E-01	0.200143331	7
-0.034573228	21	7.74E+00	0.154328471	21
-0.023941759	17	4.53E+00	0.03220699	17
-0.000131338	2	8.41E-01	0.038186275	2
0.102766941	16	1.56E+00	0.678974826	16
0.828805108	12	1.56E-02	1	12
0.041529478	28	6.77E+00	0.167592686	28
-0.049134899	9	2.15E+00	0.152642563	9
0.259044541	8	4.79E-01	0.539873086	8
0.040256561	19	3.22E+00	0.182900435	19
0.077117062	22	2.89E+00	0.331216669	22
0.075587001	15	1.79E+00	0.049103991	15
-0.991061775	6	5.00E+01	-0.797143917	6
0.230460524	27	6.78E-01	0.136575436	27
0.194826565	26	1.00E+00	0.821642555	26
-0.299295835	5	3.08E+00	-0.380181833	5
0.665522751	3	1.68E-01	-0.102675906	3
0.200079793	3	5.55E-01	-0.971376405	3
-8.39E-05	3	9.29E-01	0.740500627	3
-0.138198187	8	2.84E+00	0.240615378	8
2	54	8.55E-18	2	54
0.248059915	22	5.38E-01	0.172887477	22
0.731776011	63	2.89E-06	1	63
0.190191417	35	1.35E+00	0.593414642	35
-0.19014884	7	3.02E+00	0.439395069	7
0.044781754	11	1.60E+00	0	11
0.018817389	20	4.26E+00	0.015277311	20
0	7	1.38E+00	0	7
0	18	4.14E+00	-0.0209606	18
-0.12555117	8	2.69E+00	-0.224789039	8
-0.504007273	4	4.55E+00	-0.458279304	4
0.045524825	5	9.74E-01	-0.16820177	5
-0.670037814	2	3.65E+00	0.180375637	2
-0.401180656	10	1.53E+01	0.383575643	10
0.016225329	9	1.56E+00	-0.312811078	9

0.454270621	11	1.60E-01	0.249815317	11
-0.205221898	5	2.25E+00	0.472515716	5
-0.171299921	5	2.01E+00	0.646244405	5
-0.215237815	5	2.33E+00	0.980658387	5
-0.224440474	7	3.48E+00	1	7
-0.393981588	5	4.23E+00	0.123040562	5
-0.187279351	7	2.98E+00	0.416958156	7
-0.010996059	6	1.31E+00	0	6
-0.540469271	6	9.36E+00	0.511617982	6
0.074176027	12	1.46E+00	-0.104361222	12
0.328989535	11	3.23E-01	0.801017336	11
0.280118717	4	4.49E-01	-0.370247504	4
-0.395082209	14	4.04E+01	-0.164192362	14
0.051068098	17	2.50E+00	0.13785009	17
1	5	2.99E-02	2	5
0.255418727	71	5.52E-01	0.637131919	71
0.529864343	22	3.37E-02	0.70645375	22
0.595571139	12	6.34E-02	0.979686223	12
-0.146894829	5	1.85E+00	-0.214472287	5
-0.143174609	7	2.49E+00	-0.219175121	7
-0.037162041	2	9.13E-01	0.097566854	2
0.068980855	16	2.02E+00	-0.190697367	16
-0.113484432	2	1.08E+00	-0.030136383	2
0.55892828	4	1.97E-01	1	4
0.041620867	14	2.10E+00	0.17647649	14
-0.074077633	13	4.04E+00	0.258139266	13
0.078875339	9	1.15E+00	-0.022052836	9
-0.33738483	11	1.38E+01	-0.458442664	11
0.210479881	6	5.73E-01	-0.361260429	6
0.056339271	39	1.34E+01	0.159180247	39
0.043037808	26	5.63E+00	0.274798721	26
0.448409335	44	1.55E-02	0.583688213	44
0.057961415	1	6.86E-01	0	1
0.045833619	2	7.61E-01	0	2
0	2	8.41E-01	0	2
0	3	9.29E-01	0	3
0	1	7.61E-01	0	1
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
0	3	9.29E-01	0	3
0	4	1.03E+00	0	4
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
0	1	7.61E-01	0	1
0.445234441	4	2.75E-01	0.596641731	4
-0.111295383	9	2.90E+00	0.873651093	9
0.682777413	5	1.16E-01	2	5

2	5	1.31E-03	0.906307866	5
0.061178169	9	1.25E+00	0.281392028	9
0.295078404	10	3.97E-01	-0.295777161	10
0.072902082	52	2.59E+01	0.166526766	52
-0.021980878	10	2.09E+00	0	10
0.126503306	13	1.12E+00	0.157422546	13
-0.001150037	22	6.24E+00	0.273018658	22
0.145096527	20	1.36E+00	0.058923616	20
0.357585613	7	3.19E-01	0.400079573	7
-0.551565624	32	3.11E+04	0.301999389	32
-0.672403314	15	3.78E+02	-0.796740415	15
-0.71892286	18	1.62E+03	-0.269790553	18
-0.455105132	18	1.81E+02	-0.392565552	18
0.684224697	3	1.60E-01	2	3
-0.212110244	14	1.17E+01	0.43225633	14
0.607559974	5	1.49E-01	0.531446732	5
0.645410757	15	3.02E-02	0.755027465	15
0.897286194	17	3.06E-03	1	17
-0.27145628	6	3.44E+00	-0.220727898	6
0.415290048	5	2.84E-01	0.441329995	5
0.40808153	10	2.19E-01	0.620405368	10
-0.000138643	9	1.69E+00	0.36485872	9
-0.315198079	6	4.05E+00	0	6
-0.291603968	2	1.59E+00	-0.366382648	2
-0.277451941	9	6.52E+00	-0.764848096	9
0	1	7.61E-01	-0.873229802	1
-0.618765224	5	8.95E+00	-1	5
-0.445536213	13	4.35E+01	-0.406664244	13
-0.03459343	2	9.07E-01	-0.42938171	2
-0.09715222	3	1.19E+00	-0.01530921	3
-0.053758174	2	9.46E-01	0.636545943	2
0	1	7.61E-01	-0.050254015	1
-0.113563957	6	1.91E+00	0.43504829	6
-0.370921372	10	1.31E+01	0.638242064	10
-0.737749956	10	8.97E+01	0.990457937	10
0.693425152	7	8.05E-02	0.976507841	7
0.623631557	11	6.16E-02	0.557051555	11
-0.004713146	5	1.15E+00	-0.103921483	5
3	25	3.12E-12	4	25
-0.210986656	5	2.29E+00	0.447725767	5
0.170247665	6	6.65E-01	0.670486332	6
0.104878878	8	9.55E-01	0.00958324	8
0.14905759	46	3.96E+00	0.357154488	46
-0.132754712	25	3.57E+01	0.047853185	25
0	7	1.38E+00	-0.084747491	7
0.298983558	4	4.24E-01	0.55049067	4
-0.247822014	10	6.85E+00	0.331590678	10

0.132687014	8	8.43E-01	1	8
-0.021376993	25	1.05E+01	0.226744259	25
-0.090903305	12	3.93E+00	0.348654701	12
0.147661466	14	1.02E+00	0.179589235	14
0.121871401	36	3.91E+00	0.262476996	36
0.294378286	15	3.73E-01	0.656656781	15
-1	3	1.62E+01	-0.98182331	3
-0.048078976	12	3.04E+00	-1	12
0.498661896	14	9.47E-02	1	14
3	3	2.05E-04	3	3
0.49261175	38	1.18E-02	0.641689286	38
-0.581112254	16	2.71E+02	-0.452804991	16
-0.371461669	13	2.71E+01	-0.617751245	13
0.116069738	34	3.82E+00	0.395152905	34
0.248621624	18	5.25E-01	0.47819829	18
0.851495404	23	1.14E-03	2	23
-0.052963673	3	1.07E+00	0.036998388	3
-0.935816095	13	9.99E+02	-0.29355844	13
-0.148051377	13	6.48E+00	0.160573333	13
0.361082863	14	2.41E-01	0.37458263	14
0.581101956	23	1.80E-02	0.964229013	23
2	2	1.20E-02	1	2
0.118021983	7	8.53E-01	0.415931842	7
0	2	8.41E-01	0.026580259	2
0.043850213	18	2.88E+00	0.080888229	18
-0.083991045	24	1.83E+01	0.033850891	24
-0.083672074	3	1.15E+00	-0.135146955	3
0.215140282	4	5.44E-01	-0.853408953	4
0.086643507	18	2.02E+00	-0.267187377	18
1	12	2.69E-03	0.873397476	12
1	21	3.80E-05	2	21
0.59664764	22	1.75E-02	1	22
0.196427384	24	9.39E-01	0.042919076	24
0.154149877	11	8.66E-01	0.084777691	11
0.267898948	8	4.60E-01	-0.009035911	8
0.076385196	7	1.01E+00	0.070094704	7
0.320447088	6	3.80E-01	1	6
0.097294731	3	7.23E-01	0.405907523	3
1	4	5.06E-02	0.66916791	4
0.662911731	36	1.06E-03	0.795657221	36
0.545707184	23	2.58E-02	1	23
0.913694119	17	2.69E-03	1	17
0.79449962	36	1.44E-04	1	36
-0.101251552	19	1.10E+01	0.515654062	19
-0.927442268	17	5.82E+03	-1	17
-0.043941461	15	4.21E+00	0.256933654	15
-0.258933236	4	2.21E+00	-0.764115133	4

0.120380979	2	6.46E-01	-0.159578432	2
0.424332514	59	9.41E-03	0.873208048	59
-0.367236149	7	6.24E+00	-0.758047317	7
-0.150204342	3	1.37E+00	0.321838886	3
0.160485463	6	6.90E-01	1	6
0.848538019	28	3.81E-04	2	28
2	21	2.97E-08	3	21
-0.140751279	19	1.55E+01	-0.096733753	19
-0.045974378	19	6.82E+00	0.549173394	19
0.505577861	24	3.55E-02	0.16785815	24
0.411505025	13	1.81E-01	0.926489994	13
0.714112688	12	3.11E-02	0.474002977	12
-0.236947381	8	4.42E+00	0.142266876	8
0.694198508	6	9.47E-02	0.949731385	6
-1	5	5.35E+01	-0.084948559	5
-0.728042723	2	4.15E+00	-0.335545095	2
-0.028813995	1	8.02E-01	0	1
-0.149536566	6	2.19E+00	-0.017100969	6
-0.437380316	3	2.86E+00	-1	3
-0.064434604	3	1.10E+00	-0.195083221	3
-0.289804022	4	2.42E+00	-0.366838494	4
0	2	8.41E-01	-0.028078696	2
-1	8	2.91E+02	-0.542821484	8
-1	7	5.27E+02	-2	7
-0.431438098	3	2.82E+00	-0.522887819	3
-0.084595716	2	1.01E+00	-0.137326017	2
-0.002660294	3	9.36E-01	-0.00440827	3
-0.043347806	7	1.65E+00	0.21221222	7
0.291375468	3	4.39E-01	1	3
-0.580510094	3	4.14E+00	0.02512991	3
-0.85397632	4	1.28E+01	-0.923112384	4
-0.129135935	10	3.68E+00	-0.119371894	10
-0.005512471	3	9.43E-01	0	3
-0.171605706	27	7.61E+01	0.244540202	27
0.329580293	8	3.49E-01	0.672136354	8
0.273928636	11	4.41E-01	0.181716234	11
-0.003010632	4	1.04E+00	-0.339549307	4
-0.492386435	8	1.39E+01	-0.541862409	8
-0.96358923	6	4.52E+01	0.732210986	6
-0.966211801	4	1.79E+01	-0.768222388	4
-0.624855739	4	6.51E+00	-0.914165948	4
-0.815664059	5	1.73E+01	0.632478836	5
0.48442392	4	2.45E-01	-0.704081379	4
1	19	2.92E-05	2	19
-0.710022766	31	1.87E+05	-1	31
0.700269519	36	6.00E-04	0.899492305	36
0.756228651	2	1.60E-01	0.209623952	2

0.357835937	6	3.31E-01	0.791542717	6
0.003778803	27	9.71E+00	0.028120085	27
-0.488838446	9	1.82E+01	-0.121435469	9
0.41515424	12	1.88E-01	0.345750366	12
-0.302880564	14	2.16E+01	-1	14
0.823185925	8	3.81E-02	1	8
3	5	1.82E-04	4	5
1	11	6.40E-04	1	11
0.612239452	138	2.57E-09	1	138
0.639114015	13	4.22E-02	1	13
-0.049253815	2	9.37E-01	-0.096875249	2
-0.887075017	2	5.88E+00	-0.487652201	2
0.438460729	35	3.42E-02	0.604869573	35
-0.19835996	33	2.99E+02	0.138485462	33
0.405188747	14	1.78E-01	0.523256738	14
0.082617086	7	9.86E-01	0.102647589	7
0.018191699	7	1.28E+00	0.732723649	7
0.082457037	66	5.49E+01	0.242851025	66
-0.102757605	4	1.39E+00	1	4
1	8	1.43E-02	0.754493735	8
0	6	1.25E+00	-0.177711169	6
-0.148353185	6	2.18E+00	-0.27445587	6
0.910263966	5	5.43E-02	0.883256428	5
1	17	6.35E-04	2	17
0.343506215	8	3.28E-01	0.50753305	8
2	12	1.85E-04	2	12
-0.410229847	3	2.67E+00	0.030880774	3
-0.42760233	3	2.79E+00	-0.000411551	3
2	18	1.35E-05	2	18
2	2	1.80E-02	3	2
0.351286701	93	1.67E-02	0.570082701	93
-0.609602386	35	1.86E+05	-0.688438055	35
-0.262512777	7	4.06E+00	-0.471019006	7
-0.017692198	2	8.74E-01	-0.08629745	2
-0.048654269	9	2.14E+00	-0.036308056	9
-0.004151352	3	9.39E-01	0	3
0.014596268	30	1.13E+01	-0.120905271	30
-0.000283118	4	1.03E+00	-0.330437169	4
0.165252801	10	7.84E-01	0.077846018	10
0.423600312	8	2.29E-01	1	8
0.417375124	46	2.42E-02	0.609354211	46
-0.017736934	6	1.34E+00	-0.158076557	6
0.398727555	17	1.59E-01	0.875802618	17
-1	4	5.20E+01	0.003468724	4
-0.080750161	17	7.11E+00	-0.054835366	17
0.636022672	8	8.83E-02	0.308780719	8
-0.006412355	3	9.45E-01	-0.005384096	3

-0.340606056	8	7.04E+00	-0.36555336	8
-0.010634835	2	8.61E-01	0	2
-1	10	1.56E+03	-0.096236135	10
0.218375317	30	8.20E-01	0.549233005	30
-0.520889082	7	1.17E+01	-0.313601746	7
-0.397941253	2	2.01E+00	-0.253876696	2
0.221363245	13	6.11E-01	0.631573635	13
0.038290086	20	3.57E+00	0.071793155	20
0.021504824	2	8.02E-01	0.105095883	2
0.357132843	35	1.14E-01	0.513388018	35
-0.003353629	9	1.72E+00	-0.074276715	9
-0.242428093	13	1.19E+01	-0.00357222	13
0.055647733	15	2.06E+00	0.135668455	15
-0.206884817	4	1.89E+00	-0.279430814	4
-0.044220391	20	7.55E+00	0.12400121	20
0.028928512	26	6.61E+00	-0.04187648	26
0.028631338	12	1.92E+00	0.113647876	12
0.241851955	9	5.21E-01	0.833094162	9
0	3	9.29E-01	0	3
-0.780982884	7	3.41E+01	-1	7
-0.071642407	7	1.86E+00	-0.67318878	7
0.006292317	10	1.81E+00	-0.052476547	10
0	2	8.41E-01	-0.007675413	2
0.045312282	10	1.47E+00	0.082214755	10
0.274694469	12	4.37E-01	0.14928053	12
1	5	1.20E-02	0.241995807	5
0.217681448	5	5.48E-01	0.315896039	5
0.326047372	4	3.92E-01	0.022228905	4
0.312529934	4	4.08E-01	1	4
0.937286677	5	4.96E-02	0.895270215	5
0.756739669	3	1.32E-01	1	3
0.035420694	6	1.10E+00	-0.050882369	6
-0.219314975	2	1.36E+00	0.167156364	2
-0.35403383	9	9.46E+00	-0.337256474	9
-0.266218355	7	4.13E+00	-0.228596349	7
0.878560857	8	2.97E-02	0.926035991	8
0.899249309	61	6.57E-08	1	61
0.016437327	11	1.88E+00	0.654380582	11
0.318595871	48	1.51E-01	0.624357592	48
-0.264296517	20	5.55E+01	-0.305279029	20
0.816989791	23	1.62E-03	2	23
0.160392819	8	7.45E-01	-0.218529548	8
-0.072520553	19	8.59E+00	-0.015500113	19
0.252241546	6	4.90E-01	0.18879733	6
-0.060016258	2	9.59E-01	-0.094714872	2
0.025316499	5	1.04E+00	0.013490555	5
2	14	2.58E-05	2	14

-0.617685882	13	1.31E+02	-0.2578833	13
-0.37935428	7	6.56E+00	-0.337239123	7
-0.156074537	6	2.24E+00	-0.491163391	6
-0.014123055	3	9.64E-01	-1.15E-05	3
2	25	2.17E-11	4	25
0.218899461	5	5.46E-01	0.733191012	5
0.291566582	46	2.64E-01	0.505562059	46
0.151447299	1	5.79E-01	0.15550488	1
0.073975342	2	7.15E-01	-0.095460641	2
0.367995731	16	2.12E-01	0.891324044	16
-0.144730337	5	1.84E+00	0	5
0.013583884	1	7.43E-01	0	1
-0.375548448	13	2.78E+01	0.274831327	13
0.178793654	11	7.53E-01	-0.042755339	11
0.742061891	9	4.56E-02	0.358543059	9
0.999692344	2	9.40E-02	0.336804799	2
0.435245029	4	2.84E-01	1	4
-0.87546761	3	8.85E+00	-0.636488015	3
-0.390847859	3	2.54E+00	-0.295564926	3
0.112223434	7	8.73E-01	0.439035875	7
0.40981667	16	1.54E-01	1	16
-0.445081207	3	2.92E+00	-1	3
0.215273982	4	5.43E-01	-1	4
-0.461185467	6	6.97E+00	-0.992876194	6
0.073925856	2	7.15E-01	-0.154836924	2
-0.126264502	5	1.73E+00	-0.320772413	5
0.054968179	1	6.89E-01	-0.046606439	1
-0.973850946	11	4.96E+02	-1	11
-0.229181565	28	1.81E+02	-0.243201435	28
-0.82410822	5	1.78E+01	-1	5
-0.997877686	2	7.50E+00	0.580839685	2
-0.189044334	7	3.01E+00	-0.353954702	7
-1	5	5.73E+01	-1	5
-1	3	2.66E+01	-0.98212024	3
-0.759659338	1	3.01E+00	-0.23662621	1
-2	6	9.54E+02	-0.446772584	6
-0.346950443	6	4.56E+00	-0.422374628	6
0.146609853	5	6.95E-01	2	5
0.045386577	6	1.06E+00	1	6
-0.300550888	3	2.01E+00	-0.55150394	3
0.348232643	2	3.92E-01	0.821904214	2
0.248381053	5	4.95E-01	0.28111912	5
0.095537574	2	6.82E-01	0.062557249	2
0.340763301	5	3.64E-01	0.348808833	5
0.018735273	22	5.13E+00	0.144796022	22
0.002385321	6	1.24E+00	-5.49E-06	6
0.122693264	33	3.30E+00	0.02398033	33

0.106056397	13	1.28E+00	0.14940166	13
0.050083861	23	4.08E+00	-0.052336873	23
0.023442973	9	1.51E+00	0	9
-0.022813737	17	4.49E+00	-0.003015167	17
0	3	9.29E-01	0	3
0.190472139	17	8.29E-01	0.213104757	17
0.548909574	86	2.43E-05	0.592672505	86
2	24	6.28E-10	2	24
0.010394119	2	8.22E-01	0.00878208	2
0.175499772	15	8.74E-01	0.522986893	15
1	113	4.97E-17	1	113
1	49	7.07E-08	1	49
0.035228772	7	1.20E+00	0.062755128	7
-0.584645217	3	4.19E+00	-1	3
-0.193123625	2	1.28E+00	0.144790409	2
0.406113104	10	2.21E-01	0.741871655	10
0.82365774	6	5.85E-02	2	6
0.03562877	12	1.84E+00	-0.061913968	12
0.028151155	11	1.76E+00	-0.145494913	11
0.610364084	18	2.60E-02	1	18
0.307066807	7	3.93E-01	0.383723246	7
0.372013699	19	1.81E-01	0.55834348	19
0.104586494	16	1.54E+00	0.048799952	16
-0.121320526	13	5.47E+00	-0.414969063	13
-0.038329152	21	8.02E+00	0.183356602	21
0.752769734	1	1.95E-01	3	1
-0.599917519	3	4.35E+00	-0.155361811	3
0.518288494	24	3.10E-02	0.648980371	24
2	31	9.35E-12	3	31
-0.288397779	13	1.59E+01	-0.108643532	13
-0.183431105	20	2.67E+01	-0.524929755	20
0.752082128	13	2.05E-02	2	13
0.384505383	10	2.48E-01	0.160002119	10
0.553995277	46	1.80E-03	1	46
0.826888962	5	7.18E-02	2	5
-0.226158322	18	2.71E+01	0.143258809	18
0.56180355	20	3.10E-02	0.795977604	20
1	8	3.05E-03	2	8
-1	10	9.50E+02	-0.376978712	10
-0.449670415	5	5.09E+00	-1	5
-0.355624652	4	2.94E+00	-0.105719689	4
-0.707441925	14	3.36E+02	-0.43225013	14
1	7	1.15E-02	1	7
0.145194385	12	9.51E-01	-0.138068111	12
1	11	4.69E-03	1	11
-0.116792822	7	2.23E+00	0.209763595	7
-0.011034527	5	1.18E+00	0.018263244	5

-0.044221969	15	4.21E+00	0.171830276	15
-0.924977822	3	1.01E+01	0.453826378	3
0.149913526	6	7.17E-01	0.054425198	6
0	1	7.61E-01	0	1
0.097784851	3	7.22E-01	0.022402202	3
0.696728648	16	1.77E-02	0.671659911	16
0.7460254	37	2.49E-04	0.897673616	37
0.297204249	16	3.61E-01	1	16
-0.301475646	10	9.08E+00	0.561954821	10
1	3	4.41E-02	0.803909525	3
1	18	3.56E-04	2	18
0.947272792	9	1.68E-02	0.795833684	9
-0.721561395	20	3.51E+03	-0.528827854	20
-0.055290736	79	1.03E+04	0.167527746	79
0.167732517	17	9.92E-01	0.541375808	17
0.0928427	2	6.86E-01	0.323474174	2
0.896372191	77	1.45E-09	1	77
2	9	1.24E-04	3	9
-0.216300427	8	4.03E+00	0.055891166	8
0.779124225	5	8.42E-02	0.606668317	5
2	25	4.19E-08	2	25
0.682667885	4	1.36E-01	0.597846128	4
0.340015657	9	3.23E-01	2	9
0.55191368	22	2.71E-02	0.402493714	22
0.784045568	18	6.15E-03	0.748752316	18
0.26559108	10	4.63E-01	0.415321778	10
1	16	1.56E-03	1	16
2	5	1.45E-03	3	5
0.419206323	43	2.80E-02	0.912832095	43
2	17	1.25E-05	3	17
-0.198243321	15	1.27E+01	0.598358371	15
0.028057232	10	1.61E+00	-0.261311078	10
0.070427976	12	1.49E+00	0.146574374	12
3	7	8.49E-07	4	7
0.422636449	12	1.79E-01	0.801360002	12
1	1	1.03E-01	-0.262678164	1
1	3	3.55E-02	1	3
0.649241136	24	7.74E-03	0.452584256	24
0.462742207	2	3.05E-01	0.353097353	2
-0.96466065	14	1.92E+03	0.682550697	14
0.532777272	7	1.56E-01	0.759876471	7
0.482394726	21	5.84E-02	0.62174384	21
1	7	4.15E-03	0.668679215	7
0.59489719	13	5.61E-02	0.001887695	13
0.03991894	11	1.65E+00	-1	11
-0.081372602	1	8.82E-01	0.680870606	1
-0.032123012	4	1.13E+00	0.359429362	4

-0.053821196	6	1.53E+00	-0.623486447	6
-0.568205048	6	1.04E+01	-0.339077165	6
2	7	1.38E-03	2	7
2	26	4.44E-09	3	26
0.21830903	22	7.21E-01	0.21112977	22
0.73271134	19	7.87E-03	1	19
2	7	8.14E-04	3	7
-0.085649317	19	9.63E+00	0.69321738	19
0.17178604	4	6.18E-01	-0.408458419	4
0.139811698	2	6.19E-01	0.038307197	2
-0.812551485	8	5.85E+01	-0.074681543	8
0.179085042	11	7.52E-01	0.878837642	11
2	8	1.38E-03	2	8
0.357770065	18	2.12E-01	-0.034970198	18
0.650757469	9	7.12E-02	0.859593571	9
-0.615261248	2	3.24E+00	-0.221978144	2
-0.279100983	5	2.88E+00	0.27153766	5
1	16	5.29E-05	1	16
0.074543769	5	8.84E-01	-7.73E-05	5
-0.044268417	8	1.86E+00	-1	8
-0.550065642	8	1.80E+01	0.117490515	8
-0.185184865	4	1.77E+00	-0.004717132	4
-0.292181714	3	1.97E+00	-0.357645471	3
-0.025925044	3	9.93E-01	-0.411941423	3
-0.386229248	3	2.51E+00	-0.860802181	3
0.045744566	5	9.74E-01	-0.392938918	5
-0.289084254	5	2.98E+00	-0.099801091	5
-0.351303503	32	2.02E+03	0.143475269	32
-0.185096374	29	1.25E+02	-0.080910382	29
0.211409147	11	6.27E-01	0.132725371	11
-0.014499477	1	7.82E-01	0.046968557	1
-0.144246907	6	2.14E+00	0.236408402	6
0.009669016	6	1.21E+00	-0.859861414	6
0	2	8.41E-01	0	2
-0.002563729	5	1.14E+00	-0.049520139	5
-0.367966009	11	1.64E+01	1	11
0.567409545	6	1.52E-01	0.376135168	6
-0.430555007	16	8.72E+01	-0.271704009	16
-0.343444016	9	8.99E+00	-0.364047959	9
-0.136821519	9	3.29E+00	-0.081619231	9
-0.008458231	24	8.23E+00	0.15871779	24
-0.076397088	20	1.01E+01	0.097858224	20
-0.04167748	5	1.30E+00	0	5
0.079599533	21	2.63E+00	-0.017196955	21
0.096375514	2	6.81E-01	0.017140781	2
0.480968445	4	2.48E-01	0.164631016	4
0.019731194	20	4.22E+00	-0.017583985	20

-0.034544971	11	2.50E+00	0.075734679	11
-0.00598884	7	1.42E+00	0.000862655	7
-0.004835886	30	1.46E+01	0.16686618	30
0.072940119	10	1.27E+00	0.221320849	10
-0.322837793	6	4.16E+00	0	6
0.045122876	81	5.10E+02	0.403594689	81
0.123053813	6	7.93E-01	0.64651403	6
0	3	9.29E-01	0	3
0	12	2.28E+00	0	12
0.005123482	2	8.32E-01	0	2
0.091099037	5	8.37E-01	-0.007445794	5
0.174190129	20	1.04E+00	-0.017804841	20
0.232856524	10	5.50E-01	-0.04800536	10
0	3	9.29E-01	-0.054556834	3
0.309719666	10	3.67E-01	0.27169068	10
-0.664609331	5	1.04E+01	0.609255258	5
-0.168434094	8	3.25E+00	-0.092866437	8
0.231263336	5	5.24E-01	-0.547396417	5
0.046935338	6	1.05E+00	0.313216431	6
0.004937651	4	1.01E+00	0.002811684	4
0	1	7.61E-01	0	1
-0.000259741	4	1.03E+00	0.295832287	4
0.017068739	1	7.38E-01	0.028703924	1
0	4	1.03E+00	0	4
0	1	7.61E-01	0	1
0	4	1.03E+00	-0.038950048	4
0.310096889	3	4.18E-01	0.079150968	3
0.103008714	3	7.13E-01	0.042489748	3
0.497623283	4	2.36E-01	0.803575357	4
-0.519312027	5	6.42E+00	-0.700177559	5
0.073081168	5	8.89E-01	0.695208104	5
0.429140849	4	2.89E-01	0.14525223	4
-0.395514515	5	4.25E+00	-0.165640079	5
0.251536575	6	4.91E-01	-1	6
0.040162447	8	1.28E+00	-0.408801244	8
0.017634233	2	8.09E-01	0	2
0.177389312	6	6.48E-01	-0.014378866	6
0.046262114	7	1.14E+00	0.001236355	7
0.558032144	6	1.57E-01	0.242097267	6
0.088269578	6	9.02E-01	-0.129280268	6
0.456407947	6	2.29E-01	-0.270683417	6
0.334982478	9	3.31E-01	0.624894443	9
-0.177707728	13	7.84E+00	0.285924138	13
-0.188376099	4	1.79E+00	-0.000230948	4
-0.119458921	9	3.02E+00	-0.680855733	9
0.076268423	6	9.43E-01	0.019543043	6
0.12171576	5	7.55E-01	0.602559994	5

0.174017111	5	6.34E-01	0.270822755	5
-0.18323008	3	1.49E+00	-0.254649678	3
-1	4	2.08E+01	-0.265278437	4
-0.057008902	3	1.08E+00	-0.026758205	3
-0.066549152	3	1.10E+00	-0.186971493	3
-0.464317108	7	9.30E+00	-0.174435775	7
0	3	9.29E-01	0	3
-0.895528014	8	8.48E+01	-0.032077576	8
-0.633899457	3	4.75E+00	-0.814064051	3
-0.509797713	9	2.02E+01	-1	9
-0.069245346	4	1.26E+00	0	4
-0.019102182	1	7.88E-01	0	1
-0.85695262	7	4.66E+01	-0.180553147	7
0.003283236	2	8.35E-01	0	2
0	1	7.61E-01	-0.046606439	1
-0.002704759	3	9.36E-01	-0.781865756	3
0.504482978	10	1.32E-01	0.742306932	10
1	8	9.93E-03	2	8
-0.305403583	6	3.90E+00	0	6
-0.382860772	9	1.09E+01	0.499995003	9
0.049952718	9	1.32E+00	-0.354098472	9
1	6	1.31E-02	1	6
0.099777905	3	7.19E-01	0.25479008	3
0	4	1.03E+00	-0.061670887	4
0.002090151	4	1.02E+00	-0.008500949	4
4	6	3.47E-07	5	6
0.602547455	16	3.61E-02	0.643981223	16
-0.00691007	8	1.58E+00	0.026663201	8
-0.161744017	21	2.57E+01	-0.133443822	21
-0.013980975	19	5.16E+00	-0.361609284	19
0.165677439	55	4.01E+00	0.079640354	55
0.051667598	75	2.56E+02	0.025932939	75
0.021951381	8	1.39E+00	0.062028503	8
-0.386479108	3	2.51E+00	0.202659302	3
0.006326146	11	1.99E+00	-0.080913373	11
-0.026637435	14	3.33E+00	0.019511317	14
-0.002058147	5	1.14E+00	0.003440213	5
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
-0.002290737	16	3.45E+00	0.111382237	16
-0.0018834	8	1.54E+00	0	8
-0.009551971	17	4.04E+00	0	17
-0.000927164	6	1.26E+00	-0.087618261	6
0.239228612	5	5.10E-01	0.253159574	5
0.032013168	20	3.78E+00	0.092798042	20
0.840181816	2	1.33E-01	0.8102787	2
0.002933809	9	1.67E+00	0.09972109	9

1	5	2.54E-02	0.446555906	5
0.664478956	24	6.58E-03	2	24
-0.054577363	12	3.16E+00	0.019141838	12
-0.006194855	6	1.28E+00	-4.41E-05	6
-0.737525757	5	1.33E+01	-0.693824946	5
0.232047656	4	5.17E-01	-0.287093482	4
0.06504556	1	6.77E-01	0	1
0.0309357	6	1.12E+00	-0.006713334	6
-0.009344397	2	8.59E-01	0	2
0.016146506	6	1.18E+00	0	6
-0.094183179	6	1.78E+00	0	6
0	1	7.61E-01	0	1
-0.091714085	5	1.54E+00	0	5
0.111302889	8	9.28E-01	-0.027119373	8
-0.004798374	24	7.92E+00	0.614869569	24
0.061686106	4	8.55E-01	0.405060819	4
-0.343639223	8	7.14E+00	-0.240744394	8
1	12	2.97E-03	0.126595302	12
0	1	7.61E-01	0	1
0.579635112	11	7.89E-02	1	11
-0.0779944	32	4.84E+01	0.451388966	32
0.051713509	9	1.31E+00	0.208877762	9
-0.415789903	6	5.88E+00	-0.001099367	6
-0.008013787	1	7.73E-01	0	1
-0.524716994	6	8.82E+00	-1	6
0	4	1.03E+00	0	4
0	9	1.69E+00	-0.092515466	9
0.194848305	8	6.38E-01	-0.101131148	8
0	2	8.41E-01	0	2
0.432776418	31	4.84E-02	0.651115906	31
0.205236342	21	8.02E-01	0.417754981	21
-0.050062039	8	1.91E+00	0.096240429	8
-0.052256105	14	3.96E+00	0.061839824	14
-0.023024068	35	3.17E+01	0.026037709	35
0.000888928	5	1.13E+00	0.001484325	5
-0.030630292	5	1.26E+00	-0.104274268	5
-0.187845676	3	1.51E+00	0.316470943	3
0.087493053	20	2.29E+00	0.010819124	20
0.070389135	5	8.97E-01	-0.181000226	5
-0.601092049	4	6.07E+00	-0.019364769	4
-0.444790721	14	5.66E+01	-0.808420835	14
-0.605939622	18	6.35E+02	0.093171493	18
0	1	7.61E-01	0	1
0	9	1.69E+00	0	9
0	7	1.38E+00	-0.102682438	7
0.290687446	79	1.84E-01	0.455357746	79
0	2	8.41E-01	0	2

0.038465201	7	1.18E+00	0.000524911	7
1	5	1.41E-02	0.966133531	5
2	2	2.38E-02	1	2
0.090111713	7	9.56E-01	0.190907026	7
-0.4957352	22	8.07E+02	-0.875866867	22
-0.133444706	2	1.13E+00	-0.074130299	2
-1	30	3.00E+09	-0.497565527	30
-0.725779763	16	8.08E+02	-0.460958049	16
-1	11	6.91E+03	-0.854373561	11
0	2	8.41E-01	0	2
-0.118776142	4	1.46E+00	-0.171946013	4
0.034800853	9	1.43E+00	-0.061764881	9
0.615953235	17	2.85E-02	0.97323346	17
0.483781481	43	8.85E-03	1	43
-0.244574006	27	1.79E+02	-0.177631941	27
-0.73168839	3	6.11E+00	0	3
-0.44163041	4	3.79E+00	-0.821197244	4
-0.026672794	1	7.99E-01	0	1
-0.155463681	2	1.18E+00	0.022418607	2
-0.009497153	3	9.52E-01	0.015814292	3
-0.036473987	10	2.26E+00	-0.03415017	10
0.043333264	7	1.16E+00	0.050160374	7
0.21890721	11	6.01E-01	0.233880305	11
0.076266827	3	7.64E-01	-1	3
0.068759527	7	1.04E+00	-0.041182773	7
-0.769433488	7	3.25E+01	-1	7
-0.011770107	39	4.06E+01	-0.001833301	39
0.097290075	67	3.93E+01	0.069133206	67
0.016614716	7	1.29E+00	0.636455859	7
-0.024290463	16	4.07E+00	-0.037664721	16
0.044460629	4	9.00E-01	0	4
0	10	1.87E+00	0	10
-0.282805449	5	2.92E+00	-0.50153468	5
-0.913501925	9	1.44E+02	-1	9
0.175388343	4	6.11E-01	-0.040594119	4
-0.072920773	7	1.87E+00	0.050842017	7
-0.442027287	10	1.90E+01	-0.269860275	10
-0.536815435	10	3.12E+01	-0.638924359	10
0	1	7.61E-01	-0.021785441	1
0.186667151	6	6.26E-01	-0.061719723	6
-0.076492998	9	2.45E+00	-0.887074096	9
-0.225832596	8	4.21E+00	0.031211734	8
-0.439086368	6	6.42E+00	-0.594992984	6
-0.336329293	11	1.37E+01	-1	11
-0.010961395	5	1.18E+00	-0.008901113	5
-0.606595307	10	4.50E+01	-0.525922181	10
-0.436445251	7	8.29E+00	0.379324691	7

-0.744647996	4	9.28E+00	-0.583300545	4
-0.251569749	5	2.63E+00	-0.008154578	5
-0.081096098	10	2.86E+00	-0.089970142	10
-0.207320315	7	3.24E+00	0	7
-0.162662899	20	2.21E+01	-0.207254203	20
-0.005566269	5	1.16E+00	-5.97E-05	5
0.103111113	26	2.85E+00	0.241121212	26
-0.437770069	7	8.34E+00	-0.129594656	7
-0.650011045	7	1.99E+01	-0.920813672	7
0.066087662	12	1.53E+00	-0.418981494	12
-0.01338292	24	8.67E+00	0.228486839	24
-0.000202376	4	1.03E+00	-0.122297868	4
0.154927232	4	6.49E-01	-0.41579755	4
0.006133093	11	1.99E+00	0.008424776	11
0	5	1.13E+00	0	5
0.06466866	24	3.79E+00	0.173308074	24
-0.136247647	8	2.82E+00	-0.126132739	8
0.098183992	18	1.83E+00	-0.115041557	18
0.015331139	7	1.30E+00	0	7
0.218510059	4	5.38E-01	0	4
0	2	8.41E-01	0	2
0	5	1.13E+00	0	5
0	4	1.03E+00	0	4
0.140132074	18	1.29E+00	0.023799932	18
0.058069941	11	1.49E+00	0.086937878	11
-0.040542775	11	2.59E+00	-0.14463754	11
-0.006881468	6	1.29E+00	-0.316876352	6
-0.033907453	12	2.79E+00	0.250097306	12
-0.150400554	2	1.17E+00	-0.463652028	2
0.318572078	15	3.14E-01	0.121061475	15
0.237945008	7	5.22E-01	0.432171001	7
-0.129053541	3	1.30E+00	0	3
-0.107048351	7	2.15E+00	-0.14038777	7
0.750436773	9	4.38E-02	1	9
0.036458739	2	7.77E-01	-0.03092291	2
-0.058617086	1	8.47E-01	0	1
0.407148918	32	6.43E-02	0.503246726	32
0.000222119	9	1.69E+00	-0.048167271	9
0.428881252	13	1.62E-01	0.113934893	13
-0.18774051	8	3.55E+00	0.188614764	8
0.130854961	28	2.29E+00	0.057044077	28
0.029271769	1	7.22E-01	0	1
0.054884204	3	8.07E-01	-0.024366688	3
0.983552631	63	4.70E-09	2	63
-0.031490577	23	9.40E+00	0.517677277	23
-0.046668212	10	2.38E+00	0.29545872	10
0.462721434	6	2.24E-01	1	6

-0.001472093	6	1.26E+00	-0.00244396	6
0.156038831	5	6.74E-01	0.100074235	5
-0.089720211	3	1.17E+00	0.036494136	3
0.555311834	40	3.46E-03	0.85318483	40
0.869970895	13	9.65E-03	2	13
0.165246398	6	6.78E-01	-0.101106305	6
0.304087657	4	4.18E-01	-4.13E-05	4
-0.074393602	23	1.46E+01	-0.22211114	23
0.019510992	2	8.06E-01	0.766758993	2
0.239525445	11	5.35E-01	0.576206759	11
0	7	1.38E+00	0	7
-0.314575106	4	2.60E+00	0	4
-0.303064075	23	1.51E+02	0.281132237	23
1	128	1.91E-24	2	128
-0.206701239	10	5.52E+00	0.331510625	10
-0.013739946	1	7.81E-01	-0.022893824	1
-0.011026474	2	8.62E-01	0.005835671	2
0.045720578	16	2.40E+00	-0.042923454	16
-0.13287852	13	5.89E+00	0.150006683	13
0.516507722	32	1.44E-02	1	32
-0.089443052	11	3.41E+00	0.063310665	11
0	3	9.29E-01	0	3
0.353756184	8	3.13E-01	-0.062399169	8
0.187829019	11	7.16E-01	0.009657572	11
0.063202016	7	1.07E+00	-0.459125275	7
-0.030886047	32	2.55E+01	0.622217733	32
0.25928765	16	4.80E-01	0.028911389	16
-0.001857549	5	1.14E+00	0.097563168	5
0.544283305	35	7.15E-03	1	35
0.004947471	8	1.50E+00	-0.213006162	8
-0.314336691	9	7.80E+00	0.470056544	9
-0.237834503	3	1.71E+00	0	3
0.06419464	4	8.49E-01	0	4
-0.203714396	10	5.44E+00	0.151100179	10
-0.046088658	15	4.27E+00	-0.071603258	15
-1	5	6.94E+01	-0.421680364	5
-0.04945733	11	2.72E+00	0.205594951	11
1	12	3.96E-03	1	12
0.039107411	9	1.40E+00	0	9
0.056317681	6	1.02E+00	-0.081639403	6
0.000139588	2	8.41E-01	0.044910384	2
0.074664715	4	8.23E-01	0.072984261	4
-0.2807812	6	3.56E+00	0.870845268	6
-0.211007343	8	3.94E+00	-0.584701503	8
0.154565586	5	6.77E-01	0.157819272	5
-0.747638063	6	2.02E+01	0.057610914	6
-0.063846779	11	2.95E+00	-0.047877054	11

0.058132703	13	1.73E+00	-0.199587484	13
-0.303966339	7	4.82E+00	0.324024638	7
0.001206288	5	1.13E+00	-0.442668053	5
-0.719704828	16	7.72E+02	-1	16
-1	5	5.10E+01	-2	5
-0.200521305	5	2.22E+00	-0.239484384	5
0.620462071	79	5.47E-06	0.984646027	79
0.30799667	3	4.21E-01	0.684994751	3
0.476426292	4	2.51E-01	0.647681122	4
-0.475061326	26	2.03E+03	-0.544663897	26
-0.2290693	7	3.54E+00	0.230092474	7
0.124076336	31	2.91E+00	0.130591817	31
0.243709778	7	5.09E-01	0.079018561	7
-0.755250086	8	4.52E+01	-0.419029084	8
-0.560720218	5	7.37E+00	-0.476892333	5
-0.236801282	8	4.42E+00	-0.134701944	8
0	4	1.03E+00	0	4
0	3	9.29E-01	0	3
0.264048399	86	4.24E-01	0.46201139	86
0	7	1.38E+00	0	7
-0.787442174	23	2.12E+04	-1	23
0.030975281	1	7.20E-01	0	1
0.32287185	9	3.51E-01	0.16454644	9
3	3	1.05E-03	3	3
0.032850136	19	3.44E+00	-0.068208868	19
0	6	1.25E+00	0.170235554	6
0.16439806	17	1.02E+00	0.652903065	17
0	3	9.29E-01	0	3
0.020280351	20	4.20E+00	0.060198127	20
-0.017761916	4	1.08E+00	-0.014893862	4
0.423449193	9	2.15E-01	0.914310378	9
0.830105922	6	5.71E-02	1	6
-0.143763675	3	1.35E+00	0	3
0.117709857	7	8.54E-01	0.106947805	7
-0.125491936	12	4.84E+00	0.106303529	12
0.11762373	7	8.54E-01	0.324996822	7
0.69313729	25	4.12E-03	1	25
0.476379707	5	2.31E-01	2	5
0.044483758	15	2.23E+00	-0.140914441	15
-0.19328903	6	2.57E+00	0	6
-0.367484758	4	3.04E+00	0	4
0.253923151	30	5.18E-01	0.297529141	30
-0.341211746	10	1.12E+01	-0.659008998	10
0.496691152	21	5.11E-02	0.479295821	21
0.227117758	10	5.67E-01	-0.054368581	10
0.013245841	1	7.43E-01	0	1
0.197475937	6	6.01E-01	-0.224228353	6

0.438148462	6	2.45E-01	-0.12378973	6
-0.299034604	5	3.08E+00	-0.637500147	5
-0.893575458	11	3.16E+02	-0.366917893	11
0.001815801	7	1.37E+00	-0.944032504	7
-0.043753135	51	2.77E+02	0.114619819	51
0.101883534	1	6.33E-01	0.098480799	1
0.043761862	7	1.16E+00	0.110438765	7
0.154319528	13	9.38E-01	-0.114023647	13
0	3	9.29E-01	0	3
0	10	1.87E+00	0.10071025	10
-0.026972084	6	1.39E+00	0.156203125	6
0.465721995	14	1.18E-01	0.984613686	14
-0.073949444	10	2.75E+00	-0.149668797	10
-0.002204389	5	1.14E+00	-0.001845244	5
0.335829016	57	8.31E-02	0.814889959	57
0.089172208	13	1.42E+00	0.17452345	13
0.298477298	31	2.88E-01	0.360909755	31
-0.020438696	6	1.35E+00	0.01334794	6
0.734338218	8	5.68E-02	-0.002516333	8
-0.230104356	7	3.56E+00	0.40527717	7
-0.02911974	4	1.12E+00	0.143804896	4
0.621572689	15	3.59E-02	1	15
-0.048977824	4	1.19E+00	0.220517202	4
0.017847274	23	5.68E+00	0.109215826	23
0.072319822	6	9.57E-01	0.378084741	6
-0.029580847	11	2.44E+00	-0.391188701	11
-0.550250583	17	2.93E+02	-1	17
-0.817715791	21	1.27E+04	-0.304140856	21
-1	3	2.66E+01	-0.355821532	3
-1	10	7.39E+02	-0.35760851	10
-0.218722517	9	4.90E+00	0.124812437	9
0.666545164	6	1.05E-01	0.952109175	6
-0.090799284	11	3.44E+00	-0.046789533	11
0.067284754	4	8.41E-01	0.70013158	4
0.57027558	8	1.19E-01	1	8
-0.440361228	10	1.88E+01	0.683661961	10
0.168453682	5	6.46E-01	0.587703918	5
-0.642318121	13	1.53E+02	0.118420695	13
-0.404977436	11	2.02E+01	-0.428454886	11
-0.069449616	7	1.84E+00	-0.011149404	7
0.334821398	8	3.41E-01	0.975094204	8
3	6	2.98E-05	5	6
2	7	3.32E-04	3	7
0.757201692	10	3.51E-02	0.197412964	10
-0.50921386	5	6.21E+00	-0.058079627	5
-0.065521104	28	2.48E+01	0.007332554	28
1	32	1.43E-05	2	32

-0.058617086	1	8.47E-01	-0.049152062	1
0.003746209	7	1.36E+00	-0.00873596	7
0.602430487	10	7.90E-02	0.61177977	10
-0.023696705	2	8.86E-01	-0.135937426	2
-0.033294996	4	1.13E+00	-0.110379009	4
0.509666209	3	2.50E-01	0.056363202	3
0	7	1.38E+00	-2.33E-06	7
0.582824854	18	3.27E-02	0.863645876	18
-0.396821674	11	1.93E+01	0.060373214	11
0.723959698	55	1.45E-05	1	55
0.575327862	31	7.30E-03	0.823879168	31
-0.001798209	9	1.70E+00	0.748733181	9
0.326565941	22	2.49E-01	0.806561063	22
-0.773310674	14	5.25E+02	-0.027421707	14
0.133809034	5	7.26E-01	-0.435556668	5
0.918095702	12	9.12E-03	2	12
0.273098922	16	4.33E-01	0.661401279	16
0.028947426	21	4.25E+00	0.122488032	21
0.586549861	9	9.73E-02	1	9
0.68212489	12	3.77E-02	1	12
1	12	4.56E-03	0.861901004	12
2	10	1.40E-05	3	10
1	3	2.15E-02	1	3
-0.26383168	4	2.24E+00	0.728033933	4
1	9	3.62E-03	1	9
-0.135955855	9	3.27E+00	1	9
-0.501840467	20	4.79E+02	0.468372467	20
0.158642417	12	8.77E-01	-0.168436078	12
-0.136187157	6	2.08E+00	0.555511817	6
-0.97261125	7	7.48E+01	-1	7
-1	4	3.79E+01	-1	4
-0.962352335	9	1.83E+02	-0.374328837	9
0.037946692	22	4.25E+00	0.109145579	22
1	2	8.11E-02	-0.483755083	2
-0.193270128	4	1.82E+00	0.907707678	4
0.105933366	16	1.53E+00	0.209056973	16
-0.21148932	5	2.30E+00	0.486722973	5
0.373225353	38	7.90E-02	0.597938723	38
-0.139427578	11	4.52E+00	0.075781162	11
-1	9	2.33E+02	-1	9
0.017285759	7	1.29E+00	0.046545955	7
0.567803823	41	2.50E-03	1	41
1	28	3.81E-05	1	28
0.597952849	7	1.19E-01	1	7
-0.101527881	10	3.18E+00	0.240380172	10
1	29	3.38E-07	2	29
0.779048739	18	6.41E-03	0.539154666	18

-0.342922554	14	2.84E+01	-0.364827872	14
-0.17980569	2	1.25E+00	0.093892232	2
-0.481473043	9	1.76E+01	-1	9
-0.319762228	9	8.01E+00	-0.50343785	9
-0.13284028	5	1.77E+00	0.034110849	5
-0.229921308	3	1.68E+00	-0.467400669	3
-0.300232426	9	7.28E+00	0.135870118	9
-0.416739972	24	6.23E+02	-0.074646211	24
0.313459256	6	3.90E-01	0.565467462	6
0.039619923	25	5.38E+00	-0.17187048	25
2	13	3.32E-05	2	13
3	9	1.05E-07	4	9
0.49453855	93	8.38E-05	0.964517254	93
1	22	1.13E-04	1	22
0.561609147	20	3.10E-02	0.993340726	20
0.290300435	7	4.21E-01	0.774130558	7
-0.108663614	5	1.63E+00	0.319619991	5
-0.719704812	6	1.82E+01	-0.331326018	6
-0.574154272	7	1.46E+01	0.807991808	7
0.414799776	6	2.68E-01	0.690953999	6
-2	10	1.11E+04	-1	10
-1	9	1.22E+03	-1	9
0.406072438	11	2.10E-01	0.965907237	11
0.750739066	5	9.25E-02	1	5
-0.578532575	6	1.08E+01	-0.6899822	6
-0.623965359	13	1.36E+02	0.409684896	13
0.724886428	29	1.43E-03	1	29
0.100430403	1	6.35E-01	1	1
-0.054650103	1	8.41E-01	0	1
-0.426021557	5	4.70E+00	0.019201877	5
0.349409543	2	3.91E-01	0.643346758	2
1	7	3.63E-03	2	7
0.102211131	16	1.57E+00	0.539409989	16
-0.473017806	11	2.96E+01	0.490996225	11
0.390445995	12	2.18E-01	0.548121617	12
3	11	2.68E-07	4	11
-0.494994682	5	5.92E+00	-0.36224707	5
0.176637817	8	6.93E-01	0.194011816	8
0.047144936	3	8.23E-01	0	3
0.790740777	24	1.73E-03	1	24
-0.348912125	13	2.34E+01	-0.054743436	13
0.128270351	4	7.03E-01	-0.425615949	4
-0.736763705	1	2.89E+00	0.281003993	1
1	50	1.70E-08	2	50
1	11	1.18E-03	2	11
-0.319811403	6	4.12E+00	-0.493282428	6
-0.492916047	4	4.41E+00	-0.533307118	4

0.379402385	12	2.33E-01	0.586478258	12
0.010174863	3	9.05E-01	-0.859891598	3
-0.388821102	6	5.32E+00	-0.327707788	6
1	91	7.53E-13	2	91
-0.52667899	13	7.30E+01	0.466490327	13
-0.25580621	3	1.80E+00	0.682319284	3
0.061924628	10	1.35E+00	0.298446357	10
-0.048664353	4	1.19E+00	-1.71E-05	4
0	4	1.03E+00	1	4
-0.181777991	7	2.92E+00	0.519563152	7
-0.078775891	5	1.48E+00	0.11670737	5
-0.073265737	6	1.65E+00	1	6
0.922893825	6	4.04E-02	0.022924204	6
0.092037671	4	7.82E-01	-1	4
-0.84829891	15	1.33E+03	-0.705146489	15
0.234441409	7	5.29E-01	-0.087504276	7
0.797905365	6	6.44E-02	0.294677019	6
0.060685112	5	9.26E-01	0.127946249	5
1	26	3.79E-07	1	26
-0.054637969	6	1.54E+00	-0.763379413	6
0.133155336	5	7.27E-01	0.887580977	5
0.757863877	8	5.11E-02	1	8
3	10	7.00E-07	4	10
0.455997794	12	1.47E-01	0.602109946	12
0.005534313	5	1.11E+00	-0.787127468	5
-0.190918575	8	3.60E+00	0.846442071	8
1	10	5.31E-03	0.668907998	10
0.091372937	13	1.40E+00	-0.0962058	13
0.843996467	27	5.03E-04	0.883313683	27
0.180957076	6	6.39E-01	-0.123758369	6
2	9	6.36E-04	1	9
-0.590112785	3	4.24E+00	-0.534096777	3
-0.135312667	1	9.73E-01	-0.085497603	1
-0.654653449	4	7.11E+00	-0.519688494	4
-0.099289621	11	3.61E+00	0.437502465	11
0.254177351	60	5.57E-01	0.625599507	60
0.293278781	20	3.54E-01	0.993899342	20
0.838291682	14	9.48E-03	1	14
0.944772645	11	1.01E-02	2	11
-0.764506654	6	2.15E+01	-1	6
-0.708836305	15	4.91E+02	-0.985259421	15
-0.066029835	7	1.81E+00	-0.30493115	7
-0.454694925	14	6.06E+01	-0.428768518	14
-0.051389251	4	1.20E+00	-0.235311332	4
0.520872072	13	9.00E-02	0.514167019	13
-0.351040376	3	2.29E+00	-0.62605366	3
-0.124739688	32	9.17E+01	0.390777028	32

1	20	7.37E-05	2	20
0.241861191	7	5.13E-01	0.979811029	7
0.209258867	3	5.42E-01	0.176151814	3
-0.281030597	4	2.36E+00	-0.889301631	4
0.071083745	1	6.70E-01	-0.000112237	1
0.190768105	2	5.54E-01	0.10669821	2
0.264811567	21	4.57E-01	0.19457362	21
0.546931253	26	1.84E-02	1	26
0.25325007	3	4.84E-01	0.303905524	3
0.102652848	9	1.03E+00	1	9
-0.220972506	25	9.41E+01	0.316997122	25
0.161433988	8	7.41E-01	0.11372097	8
0.373328829	23	1.50E-01	0.441260628	23
0.841459285	10	2.25E-02	0.461487431	10
1	7	1.59E-02	2	7
0.644216522	9	7.35E-02	0.079727812	9
0.599085427	11	7.07E-02	0.347254546	11
1	5	3.97E-02	0.703100245	5
0.059551768	5	9.30E-01	0.173919673	5
-0.639609822	10	5.36E+01	-1	10
-0.019006575	2	8.77E-01	-0.071030705	2
0	3	9.29E-01	-0.381767811	3
-0.7425718	15	6.25E+02	-0.024763172	15
-0.247901925	9	5.64E+00	-0.048029184	9
-0.075090974	3	1.13E+00	0.108744075	3
0.307097924	12	3.59E-01	2	12
0.430401283	7	2.37E-01	3	7
0.72515663	8	5.92E-02	3	8
0.690282338	15	2.19E-02	0.88329802	15
0.871576159	5	6.18E-02	2	5
2	5	2.14E-03	3	5
1	12	5.10E-03	2	12
1	5	1.22E-02	2	5
2	5	2.82E-03	2	5
0.408786798	16	1.56E-01	0.636444531	16
2	22	7.09E-09	2	22
0.608225833	23	1.36E-02	0.639815726	23
-0.185309987	22	3.81E+01	-0.278037732	22
0.43054036	10	1.95E-01	1	10
2	14	1.84E-06	2	14
0.003567905	8	1.50E+00	0.302508194	8
0.428165203	7	2.39E-01	0.257785891	7
2	15	1.46E-07	2	15
3	9	7.40E-06	3	9
3	4	3.77E-04	2	4
-0.195881947	7	3.09E+00	-0.544335833	7
2	28	5.37E-11	2	28

0.091587847	1	6.45E-01	1	1
1	23	2.47E-05	2	23
-1	17	3.21E+04	-1	17
1	91	5.63E-17	2	91
0.075624662	9	1.17E+00	-0.055986553	9
-0.22186663	6	2.86E+00	-0.362827838	6
0.207111254	16	7.12E-01	0.253643293	16
0.332729914	9	3.35E-01	0.469571631	9
-0.210876306	10	5.64E+00	0.042337781	10
0.392863119	13	2.04E-01	0.598580898	13
2	20	1.26E-07	2	20
1	6	2.29E-02	0.252850014	6
0.287852819	8	4.21E-01	0.300522522	8
0.819629705	33	1.86E-04	1	33
0.082654703	13	1.48E+00	0.81238859	13
0.117711469	11	1.06E+00	1	11
-1	9	7.04E+02	0.18833959	9
-0.258060885	5	2.68E+00	-0.235488818	5
-0.55800897	24	2.78E+03	0.027399335	24
0.428562794	5	2.71E-01	0.20603206	5
0.583606775	3	2.07E-01	-0.243009279	3
0.093752295	5	8.29E-01	0.372263841	5
0.665292033	46	2.18E-04	1	46
1	9	2.19E-03	2	9
-0.045588486	12	3.00E+00	-0.287344154	12
0.23432055	86	1.17E+00	0.293908959	86
1	13	2.31E-03	1	13
-0.372030318	14	3.46E+01	0.287952396	14
0.153117104	13	9.45E-01	0.381430167	13
-0.871193338	20	1.36E+04	-0.842900312	20
-0.912782413	4	1.53E+01	-0.028453521	4
0.802953313	15	9.79E-03	2	15
0.138218659	9	8.62E-01	0.312510648	9
1	18	6.69E-04	1	18
2	12	7.20E-05	1	12
-0.151076678	4	1.60E+00	-0.092120939	4
-0.534238292	8	1.68E+01	-0.042367482	8
0.087196711	11	1.26E+00	-0.920159075	11
-0.154798532	10	4.21E+00	-0.192096053	10
0.011854841	4	9.91E-01	0.377263877	4
-0.666620313	6	1.50E+01	-0.000620164	6
0.219992856	5	5.44E-01	-0.460959764	5
0.235655029	3	5.07E-01	1	3
0.220535384	11	5.96E-01	2	11
0.633950758	5	1.37E-01	1	5
0.536580364	4	2.10E-01	2	4
0.848773728	17	4.50E-03	0.374626928	17

0.041347585	3	8.35E-01	0.523768316	3
-0.155917501	5	1.91E+00	0.418818929	5
-0.002471258	4	1.03E+00	-0.649922278	4
0.00256424	17	3.67E+00	0.685659654	17
0.230515355	14	5.83E-01	0.912681724	14
0.358220749	40	9.31E-02	1	40
0.903285243	29	1.54E-04	1	29
0.656772053	8	8.04E-02	0.3054722	8
0.450227827	6	2.35E-01	0.429398914	6
0.019872821	10	1.68E+00	0.094597647	10
0.024230556	8	1.37E+00	-0.098132716	8
-0.298871039	6	3.81E+00	-0.04212628	6
-0.406796908	5	4.41E+00	-0.412339489	5
2	5	1.04E-03	2	5
0.853740371	3	1.03E-01	1	3
0.64825758	3	1.75E-01	1	3
3	9	1.30E-06	3	9
0.181923987	11	7.40E-01	1	11
-0.54949436	12	6.20E+01	0.121402769	12
-0.612295405	18	6.69E+02	-0.665437117	18
-0.361990195	42	2.53E+04	0.173500757	42
0	1	7.61E-01	-0.024785345	1
-0.206851305	7	3.23E+00	-0.117646266	7
-2	11	1.07E+05	-0.952465186	11
0.235694081	4	5.11E-01	-0.546104808	4
0.097559779	13	1.35E+00	-0.089469901	13
-0.416124386	34	8.22E+03	0.683688666	34
-0.761792785	13	3.28E+02	-0.319908298	13
1	25	1.88E-05	2	25
0.280900101	4	4.47E-01	0.300711392	4
0.182020773	18	9.13E-01	0.826192635	18
-1	7	2.97E+02	-2	7
0.20545062	2	5.36E-01	0.538915952	2
1	7	8.27E-03	2	7
-1	4	2.52E+01	-0.793429844	4
-1	3	2.32E+01	-2	3
-0.738534091	13	2.83E+02	-0.811429415	13
-1	18	1.16E+05	-1	18
-1	8	5.94E+02	-1	8
-1	5	5.73E+01	-2	5
-0.219018553	5	2.36E+00	-0.206292476	5
0.094560842	4	7.76E-01	0.480755931	4
-0.010317897	3	9.54E-01	0.685226833	3
-0.343565515	2	1.79E+00	-0.813277332	2
-0.091256121	7	2.01E+00	-0.131630753	7
0.690542439	12	3.58E-02	1	12
-0.004360169	5	1.15E+00	0.146626607	5

-0.045421226	19	6.79E+00	0.655271796	19
-0.883301204	3	9.03E+00	-0.259911536	3
-0.461008023	9	1.59E+01	-0.274989752	9
0.853433305	9	2.65E-02	0.51043219	9
1	6	2.63E-02	2	6
0.339860841	4	3.76E-01	0.601593774	4
0.214543867	8	5.84E-01	0.252280651	8
0.464164092	3	2.81E-01	-0.29528405	3
-0.470520234	6	7.21E+00	-0.322464263	6
-1	10	4.89E+03	-1	10
0.343015204	8	3.28E-01	0.555398888	8
1	6	2.15E-02	2	6
0.014981912	1	7.41E-01	0.078002781	1
0.077428444	2	7.10E-01	0.315450736	2
1	8	1.41E-02	2	8
-0.70214493	7	2.47E+01	-0.218951836	7
-0.706121199	6	1.73E+01	-0.648563117	6
-0.327231664	9	8.30E+00	-0.262060289	9
-0.392064123	5	4.20E+00	0.331477725	5
1	19	3.14E-05	2	19
-0.493835517	9	1.87E+01	0.417534378	9
-0.097500418	2	1.04E+00	0.27241537	2
-0.169642016	7	2.78E+00	0.16686306	7
0.342407828	9	3.19E-01	1	9
1	9	9.58E-03	0.727727815	9
-0.156361323	9	3.62E+00	0.403989461	9
-0.161230486	6	2.28E+00	1	6
0.729648541	8	5.80E-02	0.231723425	8
0.723214404	10	4.19E-02	0.735476987	10
1	6	1.30E-02	1	6
0.54546148	5	1.84E-01	0.983679561	5
0.449182022	6	2.36E-01	0.287176802	6
0.419685196	42	2.95E-02	0.78084384	42
-0.432110306	5	4.80E+00	-0.032721729	5
0.075010595	8	1.09E+00	0.441343325	8
-0.000326685	2	8.42E-01	0.093737595	2
0.1157973	8	9.10E-01	1	8
0.454919705	21	7.58E-02	1	21
0.428413683	10	1.97E-01	0.29648347	10
0.869632843	9	2.45E-02	0.412080866	9
-1	3	1.63E+01	-1	3
0.093368643	5	8.30E-01	0.398458036	5
0.644461822	6	1.14E-01	2	6
-0.451209658	3	2.97E+00	0.158092797	3
0.590319169	42	1.50E-03	0.733580431	42
0.469611647	1	3.25E-01	2	1
0.38328339	10	2.50E-01	0.732953087	10

-0.154501885	7	2.61E+00	0.212122273	7
0.340774136	12	2.94E-01	0.266220798	12
0.587642154	27	1.02E-02	0.70035226	27
0.498275332	8	1.64E-01	0.131037037	8
0.160928595	3	6.14E-01	0.102056749	3
0.365162321	6	3.22E-01	-0.818903929	6
0.443279593	11	1.70E-01	-0.136867262	11
0.726627885	5	1.00E-01	1	5
2	28	9.15E-09	2	28
0.365980205	6	3.21E-01	0.834513029	6
0.142229882	9	8.45E-01	2	9
0.223614936	5	5.38E-01	1	5
0.048766216	2	7.56E-01	0.378411699	2
2	22	1.82E-07	3	22
0.527543843	1	2.93E-01	0.832103466	1
2	20	2.39E-06	1	20
0.096862103	9	1.05E+00	-0.271751509	9
0.202911176	9	6.29E-01	0.323686369	9
-0.088818095	1	8.94E-01	-0.000248528	1
-0.262924422	9	6.07E+00	0.272503534	9
0.950945983	5	4.74E-02	0.562965395	5
-0.509803587	12	4.88E+01	0.354289039	12
0.615630525	6	1.27E-01	1	6
0.021037467	10	1.67E+00	-0.553636202	10
-0.737101915	21	5.92E+03	-0.426817044	21
-0.139853835	9	3.34E+00	-0.2792208	9
0.050442473	10	1.43E+00	-0.016182883	10
0.459934609	3	2.84E-01	-0.729520449	3
-0.166851846	3	1.43E+00	-0.132666016	3
-0.392178668	6	5.39E+00	-0.383223417	6
1	17	2.54E-04	2	17
0.278517381	4	4.51E-01	0.221480881	4
0.696920019	5	1.11E-01	0.474155817	5
-2	2	3.84E+01	-0.135923022	2
0.156918635	23	1.37E+00	0.944433792	23
1	11	9.21E-04	1	11
0.399262111	98	2.18E-03	0.892075075	98
1	14	1.46E-04	2	14
-0.242490633	39	1.76E+03	0.669201148	39
0.004680007	5	1.12E+00	0.07057561	5
0.395690548	10	2.34E-01	1	10
-0.073784464	7	1.87E+00	0.177339434	7
-0.231550205	5	2.46E+00	0.34092108	5
0.421778543	20	1.10E-01	1	20
0.113455343	3	6.94E-01	0.256044142	3
0.617827583	22	1.42E-02	0.461581175	22
0.950758797	15	3.40E-03	2	15

-1	5	4.28E+01	-0.768207953	5
0.736513941	4	1.16E-01	0.241370585	4
0.282018387	29	3.64E-01	0.897131643	29
1	17	2.21E-04	2	17
0.228179311	6	5.36E-01	0.751211658	6
-0.112497267	17	9.14E+00	-0.11707775	17
0.347360111	3	3.80E-01	1	3
1	24	7.10E-06	2	24
0.913346998	18	2.10E-03	1	18
0.51718668	6	1.83E-01	0.539779604	6
0.676024139	8	7.38E-02	0.560036769	8
-0.405233877	9	1.21E+01	0.654022597	9
-1	10	1.07E+03	-0.754832477	10
2	11	6.01E-05	2	11
1	5	2.93E-02	1	5
0.759627579	2	1.59E-01	1	2
3	12	3.11E-09	4	12
0.401973967	16	1.64E-01	0.391130545	16
-0.369171561	3	2.40E+00	0	3
-0.199232359	11	6.33E+00	0.465444403	11
-0.276692059	5	2.86E+00	0.764421158	5
0.154275879	20	1.25E+00	0.00924138	20
0.562351695	16	4.88E-02	0.603661307	16
0.888681187	6	4.59E-02	1	6
0.214509499	6	5.64E-01	0.031654329	6
-0.129686646	3	1.30E+00	0.532682358	3
0.212661084	2	5.28E-01	-0.163284244	2
0.007078687	11	1.98E+00	0.339668877	11
-0.702258022	3	5.67E+00	-0.588236836	3
0.029603274	21	4.22E+00	-0.454873006	21
-0.113752958	3	1.25E+00	-0.353311672	3
0.895365869	5	5.71E-02	0.592773222	5
0.230816957	10	5.56E-01	0.727242966	10
0.325425942	7	3.64E-01	0.076485728	7
0.025126274	1	7.28E-01	-0.042232036	1
0.763974515	23	2.78E-03	1	23
-0.052287147	8	1.93E+00	-1	8
0.609807528	16	3.42E-02	0.150366669	16
1	21	8.85E-05	2	21
0.847261771	32	1.58E-04	0.839502811	32
-0.03054938	4	1.12E+00	0.018234373	4
0.011221077	51	8.76E+01	1	51
2	17	6.30E-06	2	17
-0.036075498	4	1.14E+00	-0.055743864	4
0.092378819	10	1.15E+00	0.072240519	10
0	1	7.61E-01	0	1
0.230677668	3	5.13E-01	-0.060465751	3

0.306789038	10	3.73E-01	0.540854478	10
0.25435202	4	4.84E-01	0.237119312	4
1	14	1.69E-03	1	14
0.773997006	3	1.27E-01	2	3
0.214001742	16	6.76E-01	1	16
0.263232371	78	4.39E-01	0.628774001	78
-0.121883131	8	2.64E+00	0.163064169	8
-0.673339706	24	9.45E+03	-0.443107998	24
-0.792611027	4	1.07E+01	-0.539509881	4
0.28765154	9	4.17E-01	0.114968621	9
0.322365233	20	2.72E-01	0.859553	20
-0.338428905	8	6.98E+00	0.322683877	8
0.246280051	21	5.44E-01	0.653788602	21
-0.090013373	10	2.99E+00	-0.281393101	10
-0.172982485	6	2.38E+00	-0.121482945	6
0.731988767	7	6.87E-02	1	7
0.076125983	11	1.34E+00	0.102967735	11
0.025856206	11	1.78E+00	0.152978069	11
0.645569184	11	5.44E-02	0.01862984	11
0.001197848	11	2.05E+00	-0.207443161	11
-0.027029117	4	1.11E+00	0.136366581	4
0.01842501	1	7.36E-01	0.031018592	1
-0.772651538	5	1.50E+01	0.863416645	5
-0.444527389	10	1.92E+01	-0.067280872	10
-0.166460453	3	1.43E+00	-0.43573876	3
-0.216947714	47	4.99E+03	-0.190356632	47
-0.549678203	12	6.21E+01	-0.364544646	12
-0.01290581	3	9.61E-01	-0.000635514	3
1	18	9.53E-05	2	18
-0.4072018	7	7.36E+00	-0.257851564	7
0.277838934	14	4.23E-01	0.44923027	14
-0.345294448	10	1.14E+01	0.145697806	10
-0.000287507	1	7.62E-01	-0.042232036	1
-0.816148725	2	5.03E+00	-0.310222548	2
0.082708704	23	2.93E+00	0.318229628	23
-0.369247562	21	1.83E+02	0.132593338	21
0.085420125	3	7.46E-01	-0.364064081	3
0.858763664	25	6.68E-04	0.936798522	25
0.767563523	6	7.21E-02	2	6
-0.604597745	4	6.13E+00	0.185772959	4
0.682871464	11	4.41E-02	2	11
0.280196875	33	3.61E-01	1	33
2	15	6.94E-06	3	15
-0.250451745	5	2.62E+00	-1	5
0.469118662	9	1.72E-01	0.182628942	9
-0.099201228	6	1.81E+00	-0.157069079	6
0.213851755	3	5.36E-01	-0.512907234	3

0.330864658	5	3.76E-01	0.826161985	5
0.612150195	7	1.12E-01	0.036744003	7
1	8	1.12E-02	0.937266479	8
1	27	9.05E-07	2	27
0.894743334	10	1.70E-02	1	10
2	17	2.39E-06	2	17
1	13	2.46E-04	2	13
0.870037885	10	1.94E-02	1	10
-0.083460566	13	4.29E+00	-0.458160502	13
0.108540526	10	1.06E+00	-0.294248084	10
0.599092538	11	7.07E-02	1	11
-0.511049277	16	1.60E+02	0.08338856	16
1	28	2.09E-07	2	28
0.242298066	36	6.28E-01	0.120185105	36
-0.3654304	11	1.61E+01	0.931907154	11
-0.754091426	4	9.54E+00	-1	4
1	51	7.10E-09	2	51
0.013399851	4	9.87E-01	0.707966044	4
-0.170291635	4	1.70E+00	0.035981028	4
0.38215764	2	3.64E-01	0.208234007	2
1	8	1.48E-02	0.694658541	8
0.5634556	6	1.54E-01	2	6
0.133712521	10	9.25E-01	2	10
0.060238207	3	7.96E-01	0.889594317	3
0.964793545	5	4.53E-02	2	5
0.30053426	20	3.31E-01	1	20
0.025126274	1	7.28E-01	-0.042232036	1
0.312091049	13	3.42E-01	0.853047334	13
1	25	1.36E-04	2	25
0.987332998	4	5.54E-02	2	4
0.916334333	14	5.59E-03	2	14
2	4	2.84E-03	2	4
2	22	8.82E-10	3	22
0.458055594	10	1.69E-01	2	10
0.790309528	20	3.90E-03	2	20
-1	13	3.38E+03	-1	13
-0.45372858	3	2.99E+00	-0.48332048	3
0.067534467	4	8.41E-01	-0.188536535	4
0.262185042	9	4.72E-01	-1	9
0.004975089	6	1.23E+00	-0.339697162	6
0.229712365	7	5.39E-01	-0.08243479	7
-0.300908427	5	3.10E+00	-0.012162046	5
-0.411964965	4	3.47E+00	-0.329753543	4
-0.012541881	9	1.80E+00	-0.434384002	9
-0.165966864	21	2.68E+01	-0.527964145	21
1	35	6.04E-08	2	35
-0.502923188	3	3.39E+00	-0.833108102	3

0.361985921	20	1.90E-01	0.614027031	20
0.511311587	61	9.66E-04	0.63386559	61
-0.119502876	4	1.46E+00	0.698069143	4
-0.141974454	37	2.50E+02	0.272845437	37
0.392059096	6	2.91E-01	0.646367125	6
0.090640255	12	1.32E+00	0.341891524	12
0.24032237	8	5.20E-01	0.29447404	8
-0.306831101	9	7.52E+00	0.81704424	9
-0.165682791	2	1.21E+00	-0.446336912	2
0.19425114	15	7.64E-01	0.11338271	15
1	11	6.13E-04	2	11
3	26	3.46E-14	3	26
3	4	1.11E-04	4	4
0.615324445	1	2.50E-01	0.847535424	1
3	1	6.90E-03	3	1
0.286773536	21	3.71E-01	0.314198966	21
1	14	2.09E-04	2	14
-0.253603199	13	1.27E+01	0.958035823	13
0.390992657	17	1.69E-01	1	17
1	11	4.47E-04	2	11
0.594462306	12	6.39E-02	0.935201172	12
-0.036067211	9	2.01E+00	1	9
-0.446426088	5	5.03E+00	0.881128761	5
0.027939472	8	1.35E+00	-0.145768403	8
1	11	5.77E-04	1	11
2	8	2.14E-05	3	8
-0.632196214	3	4.73E+00	-0.683777285	3
0.201893012	5	5.78E-01	0.42144381	5
0.506992868	10	1.30E-01	0.479273843	10
1	5	2.08E-02	2	5
-0.373239775	5	3.94E+00	-0.072092294	5
-0.037343201	3	1.02E+00	0.770825196	3
-0.588607208	8	2.14E+01	-1	8
-0.095647522	11	3.53E+00	0.328741377	11
0.549217455	16	5.39E-02	2	16
0.414942437	7	2.52E-01	0.092183746	7
0.920728799	36	2.11E-05	1	36
0.333003997	6	3.63E-01	0.858036672	6
0.205228441	5	5.72E-01	0.414040054	5
0.658472206	3	1.71E-01	0.038392594	3
-0.276312615	6	3.50E+00	0.470994388	6
-0.295101074	21	9.08E+01	0.079432596	21
-0.584933124	5	7.99E+00	-0.500485393	5
-0.012720532	7	1.46E+00	-0.559551796	7
3	33	5.40E-20	4	33
0.813192963	13	1.39E-02	2	13
0.104779672	8	9.56E-01	1	8

1	16	1.57E-04	2	16
1	13	2.86E-04	2	13
-0.239189683	21	5.35E+01	-0.259359358	21
0.362069943	23	1.69E-01	1	23
0.966117124	7	2.63E-02	2	7
0.518711347	11	1.11E-01	0.92238565	11
-0.000540348	1	7.62E-01	0.075215559	1
0.252605658	2	4.84E-01	0.870453362	2
1	35	1.75E-07	1	35
0.097725036	8	9.87E-01	-0.17354792	8
1	16	8.20E-04	1	16
0.813556868	27	7.20E-04	2	27
-0.014448042	17	4.20E+00	0.257366187	17
-0.166201071	8	3.22E+00	-0.398440852	8
0.646020067	11	5.43E-02	1	11
0.261593388	24	4.71E-01	0.096130277	24
-0.160838964	12	5.99E+00	-0.342210155	12
-1	11	3.77E+03	-0.620480028	11
-0.427231762	13	3.87E+01	-0.421278128	13
0.33101952	3	3.96E-01	0.124624023	3
1	13	1.31E-03	2	13
2	19	1.82E-06	2	19
-0.925049989	15	2.31E+03	-0.506654921	15
0.073376827	26	3.99E+00	0.273273227	26
0.557145466	8	1.26E-01	0.345531186	8
2	22	1.42E-06	2	22
1	39	1.25E-06	2	39
0.15925249	26	1.50E+00	0.702331934	26
0.744669176	8	5.42E-02	2	8
-0.031072703	2	9.00E-01	2	2
0.113542275	19	1.71E+00	0.269886049	19
0.744245534	16	1.24E-02	0.698841064	16
0.301782706	18	3.38E-01	0.821374127	18
0.53098967	23	3.00E-02	1	23
0.799694046	14	1.23E-02	1	14
1	7	1.14E-02	1	7
0.565717148	12	7.59E-02	0.440770254	12
1	3	6.85E-02	2	3
-0.206232752	1	1.11E+00	-0.647470111	1
-0.298840803	5	3.08E+00	-0.041806688	5
-0.067450571	3	1.11E+00	0.698622093	3
-1	14	1.64E+04	-0.889301871	14
0.036520962	12	1.83E+00	1	12
2	25	5.64E-08	2	25
1	14	5.68E-04	2	14
2	4	2.87E-03	3	4
1	3	3.64E-02	1	3

-0.080974027	14	4.81E+00	0.160282268	14
0.273073685	2	4.62E-01	0.041544114	2
1	1	1.16E-01	0.271280312	1
2	12	2.20E-05	2	12
0.31216539	23	2.81E-01	1	23
-0.860161979	28	3.80E+05	-1	28
-0.74965185	4	9.42E+00	-1	4
-1	15	4.08E+03	-0.753392804	15
0.510147396	8	1.55E-01	2	8
0.236931503	11	5.43E-01	1	11
0.72041187	6	8.59E-02	1	6
-0.129020429	48	1.05E+03	0.014587632	48
0.019511456	4	9.69E-01	0.427855081	4
0.933877343	6	3.88E-02	0.876926274	6
0.350099618	3	3.77E-01	-0.211005184	3
-0.761954144	4	9.76E+00	0.398817476	4
-0.696039644	6	1.67E+01	-0.24321769	6
0.342966725	5	3.61E-01	-0.264077839	5
-0.191047388	5	2.15E+00	-0.268324533	5
-0.058949104	6	1.56E+00	0.023801837	6
-1	6	6.95E+01	-0.811532144	6
-0.363713722	5	3.82E+00	-0.410777804	5
-0.654656738	13	1.66E+02	0.56234459	13
0.890848297	11	1.37E-02	2	11
0.786873581	5	8.20E-02	0.72559187	5
-0.21541991	9	4.82E+00	-0.314694184	9
1	3	3.82E-02	1	3
-0.859800152	13	6.15E+02	-1	13
0.340142801	2	3.99E-01	-0.142778588	2
1	20	5.37E-04	2	20
0.421067823	23	9.23E-02	0.786688974	23
-0.878257466	21	2.25E+04	-0.72488209	21
0.187605743	13	7.58E-01	0.577272422	13
0.745062227	7	6.51E-02	0.37878542	7
1	11	4.77E-03	2	11
-0.16308283	6	2.30E+00	1	6
-0.351486949	2	1.82E+00	1	2
0.195730324	3	5.61E-01	1	3
0.64373173	53	1.18E-04	1	53
1	12	2.49E-03	1	12
0.457001754	28	4.40E-02	2	28
4	6	2.64E-06	3	6
0.253485987	10	4.93E-01	0.857466232	10
1	6	1.02E-02	2	6
2	6	3.88E-03	3	6
1	8	1.99E-03	2	8
0.190134203	32	1.25E+00	0.48861093	32

0.338624064	6	3.55E-01	0.376186096	6
1	24	1.83E-05	2	24
2	12	7.15E-05	3	12
0.534656946	15	6.68E-02	2	15
-0.08238114	8	2.21E+00	-0.160261344	8
-0.978521006	8	1.23E+02	-0.816595543	8
0.349181206	17	2.36E-01	0.224605574	17
0.46818445	22	6.18E-02	1	22
-0.024979324	8	1.71E+00	0.136991758	8
-0.263519404	5	2.73E+00	1	5
1	7	2.19E-02	0.749870076	7
1	18	3.49E-04	1	18
0.922314755	32	5.67E-05	2	32
2	24	2.05E-08	2	24
-0.111332433	4	1.43E+00	0.744309768	4
-0.382980554	15	4.76E+01	0.928413743	15
0.457013706	11	1.57E-01	1	11
1	7	1.37E-02	1	7
0.253489217	23	5.11E-01	0.769735384	23
0.64819783	9	7.21E-02	1	9
0.915168852	7	3.24E-02	2	7
2	7	8.11E-04	3	7
-0.433305263	9	1.39E+01	-0.831614642	9
-0.899128417	15	1.92E+03	-0.007586737	15
-0.391804951	9	1.14E+01	-0.676781593	9
-0.773373218	10	1.08E+02	-0.874439979	10
-0.279986592	22	9.68E+01	-0.139028479	22
1	10	2.88E-03	2	10
0.13526301	6	7.58E-01	0.35993094	6
-1	15	7.08E+03	-0.606863445	15
-0.172611854	4	1.71E+00	-0.58816928	4
-0.468398481	26	1.88E+03	-0.527851389	26
-0.036082964	9	2.01E+00	0.517062583	9
-0.36173599	9	9.82E+00	0.216192239	9
0.690083683	4	1.33E-01	-0.645466598	4
0.321339556	5	3.88E-01	0.351960062	5
-0.115297215	14	6.07E+00	-0.142593191	14
-1	6	1.06E+02	-0.93623145	6
0.183686644	11	7.33E-01	0.906348917	11
-0.769869646	12	2.33E+02	-0.969209026	12
0.764161563	19	5.99E-03	1	19
0.424539326	17	1.30E-01	-0.280183582	17
-0.573281422	6	1.06E+01	-0.635134477	6
-0.058617086	1	8.47E-01	-6.70E-05	1
-0.108287608	12	4.37E+00	-1	12
0.168803221	7	6.93E-01	0.154238387	7
0.174783782	6	6.54E-01	-0.032778805	6

2	36	1.83E-09	2	36
1	7	1.66E-02	0.195132175	7
-0.833910947	12	3.43E+02	-1	12
-0.508774206	4	4.62E+00	-0.915734588	4
0.455512682	11	1.59E-01	0.3553261	11
-0.191662556	26	8.11E+01	-0.071178029	26
0.003772855	2	8.34E-01	0.031582709	2
2	11	3.19E-04	1	11
0.936661625	43	2.72E-06	1	43
-0.000279649	3	9.30E-01	-0.00117736	3
1	85	4.21E-12	1	85
0.298999637	22	3.26E-01	0.380122306	22
0.148132915	6	7.22E-01	0.13436534	6
-1	9	1.03E+03	-2	9
-0.721689057	19	2.42E+03	-1	19
0.03818019	6	1.09E+00	0.456356995	6
-0.330838254	7	5.38E+00	1	7
-0.217801092	4	1.95E+00	0.135057923	4
0.23999847	10	5.30E-01	1	10
0.106353357	12	1.20E+00	0.830695057	12
-0.47108589	7	9.56E+00	0.460898036	7
0.847870609	12	1.39E-02	0.642989282	12
-0.658141108	2	3.56E+00	-1	2
-1	5	4.71E+01	-2	5
-1	3	2.44E+01	-0.554130368	3
0.574697823	196	1.86E-11	0.820134429	196
0.7660229	11	2.76E-02	2	11
-0.215164516	8	4.01E+00	0.153975656	8
1	40	1.21E-08	2	40
2	2	9.50E-03	3	2
0.19648546	6	6.03E-01	-0.336554553	6
0.522519179	73	2.20E-04	0.868196667	73
0.549258578	3	2.26E-01	-0.362014108	3
0.297027775	5	4.21E-01	-0.137679341	5
0.263348427	13	4.67E-01	0.790249331	13
-0.357024233	5	3.73E+00	-0.292537944	5
-0.05431648	7	1.73E+00	0.215900891	7
0.083971249	18	2.06E+00	0.637585482	18
-0.444842463	2	2.23E+00	0.106639487	2
-0.722358367	5	1.26E+01	0.174395103	5
0.682999424	7	8.40E-02	1	7
0.351724483	6	3.39E-01	1	6
0.67143936	2	1.93E-01	1	2
2	13	1.30E-04	1	13
0.268007421	15	4.51E-01	0.322878656	15
-0.216252245	4	1.95E+00	1	4
0.851614093	10	2.14E-02	2	10

-0.107371257	2	1.06E+00	0.152191152	2
-1	5	4.23E+01	-0.203063322	5
-0.763594515	5	1.45E+01	-0.629155029	5
0.583699358	7	1.26E-01	1	7
0.128562948	21	1.66E+00	1	21
2	15	7.54E-08	3	15
1	17	6.56E-04	1	17
1	11	1.38E-03	1	11
0.207657336	11	6.40E-01	0.922680228	11
-0.459393169	8	1.20E+01	-0.283602113	8
-0.094540862	9	2.68E+00	-0.182502624	9
1	48	1.85E-09	2	48
2	18	1.59E-05	2	18
1	9	8.74E-03	2	9
0.285001082	21	3.78E-01	1	21
3	4	5.55E-05	3	4
4	10	2.54E-09	4	10
0.795073481	1	1.81E-01	0.842261122	1
0.788157077	18	5.95E-03	1	18
2	10	2.51E-04	1	10
-1	3	1.30E+01	-0.159114422	3
0.634255524	59	6.14E-05	1	59
0.049115695	13	1.84E+00	0.500052171	13
0.223849933	22	6.82E-01	0.569646005	22
0.621586058	3	1.88E-01	-0.629653995	3
-0.08271521	10	2.88E+00	-0.098954314	10
0.40514266	30	7.38E-02	0.357603383	30
0.900547536	30	1.24E-04	1	30
-1	9	2.81E+02	-2	9
-0.815831535	7	3.93E+01	-0.762668979	7
-0.876036933	13	6.82E+02	-1	13
-0.653080515	2	3.52E+00	-0.833860391	2
0.179201052	3	5.86E-01	0.136983129	3
0.089981232	5	8.40E-01	0.210775654	5
0.034368401	2	7.80E-01	0.054558875	2
-0.000565201	1	7.62E-01	0	1
2	9	1.08E-03	1	9
0.250338531	5	4.92E-01	0.679960956	5
0.151317699	11	8.79E-01	0.229593734	11
-0.201913754	6	2.66E+00	-0.09264206	6
0.409479504	7	2.58E-01	0.631158327	7
0.890218838	7	3.59E-02	-0.512563746	7
1	17	4.42E-05	2	17
0.627885464	5	1.39E-01	0.069564871	5
-0.177717306	11	5.61E+00	-1	11
-0.333906661	8	6.84E+00	0.875655595	8
0.03478583	7	1.20E+00	0.054223047	7

-0.354025275	17	6.19E+01	0.15728618	17
-0.849210756	9	1.05E+02	-0.224586266	9
0.06477986	4	8.48E-01	0.852187624	4
0.875940523	12	1.18E-02	2	12
-0.256389568	6	3.25E+00	-0.124897029	6
-0.347426849	5	3.62E+00	0.401135557	5
-0.405820041	11	2.03E+01	-0.500543533	11
0.441631069	12	1.60E-01	0.723065154	12
-0.325301279	4	2.69E+00	-0.065577536	4
-0.194152524	14	1.04E+01	-0.006018752	14
0.037841664	9	1.41E+00	0.573957812	9
-0.249625836	6	3.17E+00	-0.714262175	6
0.339058808	15	2.71E-01	0.131822868	15
0.998423463	26	1.09E-04	1	26
2	12	1.46E-04	1	12
0.814104803	12	1.70E-02	0.90711028	12
1	11	5.39E-04	1	11
-0.519821935	11	3.85E+01	-0.399520158	11
2	11	1.06E-04	2	11
0.034789945	4	9.26E-01	0.058967769	4
0.853115719	3	1.03E-01	1	3
0.980394883	3	7.45E-02	2	3
0.936934259	3	8.33E-02	2	3
2	6	1.33E-03	2	6
0.726286737	3	1.43E-01	0.289117529	3
0.096578675	15	1.54E+00	1	15
0.418510442	3	3.16E-01	0.885754417	3
2	7	1.82E-03	2	7
2	3	1.71E-02	2	3
2	2	2.90E-02	0.67834276	2
0.008111422	10	1.79E+00	-0.546138677	10
-0.649572555	5	9.92E+00	-0.38916045	5
0.513137551	142	3.74E-07	0.734307333	142
0.761051687	3	1.31E-01	0.306833782	3
-0.211411453	14	1.16E+01	0.131268499	14
4	6	2.13E-06	3	6
2	26	7.90E-08	2	26
-0.04581081	11	2.67E+00	-0.037531179	11
0.117122465	6	8.10E-01	1	6
-0.049400163	11	2.72E+00	0.113249498	11
0.624231316	15	3.52E-02	1	15
0.86344019	9	2.53E-02	1	9
1	11	6.98E-03	1	11
0.185852268	4	5.93E-01	0.707526495	4
0.580462763	7	1.28E-01	0.908690927	7
0.960239694	7	2.69E-02	1	7
1	8	5.15E-03	1	8

-0.055255064	13	3.58E+00	0.795034476	13
0.338138444	26	1.97E-01	0.570875897	26
0.484886347	15	9.54E-02	0.553125993	15
0.144744023	5	7.00E-01	-0.501171543	5
0.647506194	10	6.24E-02	0.742757041	10
-0.36162104	8	7.74E+00	0.957989535	8
1	7	8.38E-03	0.722557228	7
2	9	6.07E-04	2	9
0.050890421	6	1.04E+00	0.461516663	6
0.239240857	68	8.55E-01	0.570408	68
1	5	3.66E-02	-0.129560675	5
0.363561354	1	3.94E-01	0.517252304	1
-0.12665698	6	2.01E+00	2	6
-0.034410439	8	1.78E+00	0.272654178	8
-0.873640661	13	6.71E+02	-0.202183768	13
-0.256798813	9	5.89E+00	1	9
0.525727474	6	1.77E-01	0.463064784	6
0.269770513	29	4.24E-01	0.703924293	29
1	22	1.42E-05	2	22
2	15	1.55E-07	3	15
0.034167668	13	2.02E+00	0.64506631	13
0.320086099	6	3.81E-01	0.252070173	6
1	6	8.90E-03	1	6
1	5	2.40E-02	0.366081003	5
0.623944187	18	2.33E-02	0.581567108	18
0.092173587	9	1.08E+00	-0.340588098	9
-0.372379432	8	8.12E+00	-0.106844796	8
0.345737146	8	3.24E-01	1	8
-0.481946872	8	1.33E+01	-0.360863149	8
-0.698608439	8	3.51E+01	-0.082818956	8
-0.980951433	3	1.16E+01	0.107073681	3
-0.192736431	2	1.28E+00	-0.415102141	2
-0.42062874	5	4.62E+00	0.146354012	5
0.830040073	17	5.22E-03	1	17
0.384888148	5	3.14E-01	-0.166469851	5
1	11	6.03E-03	1	11
-0.286452621	4	2.39E+00	-0.440234653	4
0.755697951	6	7.53E-02	0.330895446	6
0.952520077	21	6.87E-04	1	21
-0.273760047	14	1.78E+01	0.836323251	14
0.818924061	8	3.89E-02	1	8
0.03381928	7	1.20E+00	-0.002244142	7
-1	1	5.41E+00	-1	1
-0.440971664	1	1.69E+00	-0.169622156	1
-5.16E-05	4	1.03E+00	-0.206250952	4
0	1	7.61E-01	0	1
0.354610095	3	3.73E-01	-0.740430142	3

0.451325955	8	2.02E-01	1	8
0.544100264	5	1.84E-01	0.830366275	5
0.353626593	46	8.13E-02	1	46
1	13	4.81E-04	1	13
0.157316898	4	6.45E-01	2	4
-0.084720229	14	4.94E+00	0.660273039	14
1	28	1.63E-05	0.764853699	28
0.375533273	16	2.00E-01	0.999054066	16
-0.431199227	14	5.16E+01	0.275981303	14
-0.96376172	1	4.36E+00	-1	1
-0.313159038	13	1.86E+01	-0.458557314	13
0.525012711	29	1.74E-02	0.499573806	29
0.237644225	6	5.18E-01	0.54170312	6
-2.70E-05	4	1.03E+00	-0.0038526	4
0	3	9.29E-01	0.031913138	3
-0.764853946	6	2.16E+01	-0.012867876	6
-0.001781525	5	1.14E+00	0.341683503	5
3	7	1.02E-05	3	7
1	8	1.96E-03	2	8
1	20	8.33E-05	2	20
1	7	6.71E-03	1	7
0.103296379	24	2.52E+00	0.380703768	24
-0.177127558	6	2.42E+00	0.360775744	6
-0.910521235	18	7.96E+03	-0.199348688	18
-0.360949452	8	7.72E+00	-0.422459804	8
-0.058596836	3	1.08E+00	-1	3
-0.397619366	2	2.01E+00	0	2
-0.91318949	4	1.53E+01	-1	4
-0.14796024	82	3.09E+05	0.056195731	82
2	10	4.56E-04	2	10
-1	7	1.21E+02	-0.788775847	7
1	20	5.32E-04	1	20
-0.140980575	2	1.15E+00	0.315958846	2
-0.295092362	38	3.36E+03	-0.371567484	38
-1	18	2.50E+04	-0.975778139	18
0.931314827	50	4.98E-07	2	50
-0.58158947	22	1.88E+03	-0.59208049	22
-0.303141303	3	2.03E+00	-2	3
2	61	5.31E-18	2	61
2	1	1.49E-02	2	1
-0.064945042	5	1.41E+00	-0.838329262	5
-0.970999028	3	1.13E+01	0.470522659	3
-0.127143424	51	1.58E+03	0.617795845	51
0.42248163	15	1.49E-01	0.537889374	15
-0.695671035	3	5.57E+00	0.260109621	3
0.386214359	12	2.23E-01	0.206451125	12
1	5	1.23E-02	0.047207414	5

2	6	2.75E-03	0.991848585	6
-0.641241037	4	6.83E+00	-0.345759768	4
1	7	4.63E-03	1	7
0.210675514	2	5.30E-01	0.302617169	2
-1	9	4.18E+02	0.502318478	9
-0.079385017	16	6.17E+00	0.218408629	16
-0.003806027	5	1.15E+00	-0.823821985	5
0.988262991	10	1.04E-02	1	10
2	25	9.71E-08	2	25
0.285804777	7	4.29E-01	0.629701075	7
-0.137836094	3	1.33E+00	-0.547102775	3
0.441274459	4	2.79E-01	1	4
1	3	4.58E-02	1	3
1	4	3.13E-02	1	4
0.15956751	5	6.66E-01	-0.02757157	5
0.926138231	3	8.57E-02	0.42878966	3
1	3	5.78E-02	0.490531142	3
-0.10694339	2	1.06E+00	0.170888146	2
0.026843093	2	7.93E-01	-0.179577754	2
-0.663715358	9	4.27E+01	-0.288284994	9
0.481771863	8	1.76E-01	0.84409347	8
-0.001983079	10	1.89E+00	0.275162714	10
0.466065779	5	2.39E-01	0.720898319	5
0.460353604	14	1.23E-01	1	14
1	6	2.77E-02	2	6
2	27	1.07E-09	2	27
0.075757421	6	9.45E-01	-0.165719195	6
-0.058441398	2	9.56E-01	0.088057621	2
-0.494702727	7	1.05E+01	-0.857367015	7
-0.954536684	11	4.45E+02	-0.25850143	11
-0.193588772	19	2.46E+01	-0.704921734	19
0.298351446	3	4.31E-01	-0.167344184	3
-0.816399826	4	1.15E+01	-0.146486921	4
-0.226991606	4	2.01E+00	-0.027798474	4
0.143574774	20	1.37E+00	1	20
-0.158441844	21	2.50E+01	0.9049632	21
0.329806288	5	3.77E-01	1	5
-1	2	1.71E+01	0.989217218	2
0.040786212	8	1.27E+00	-0.39651457	8
0.531637009	20	4.07E-02	-0.110264516	20
0.53105645	16	6.18E-02	0.345312623	16
0.025777171	3	8.70E-01	0.040691351	3
0	1	7.61E-01	0	1
0.368508866	15	2.20E-01	0.258596707	15
-0.019666986	5	1.21E+00	1	5
0.74892094	5	9.31E-02	2	5
0.659403166	10	5.86E-02	1	10

-0.1580459	13	6.91E+00	0.379874294	13
-0.756647794	4	9.61E+00	0.193805416	4
0.869756117	6	4.93E-02	0.304085761	6
-0.084919601	6	1.72E+00	-0.432924398	6
1	8	1.60E-02	2	8
0.014204742	10	1.73E+00	-0.3833069	10
-0.715283016	4	8.51E+00	-1	4
0.425461303	3	3.11E-01	0.505676344	3
2	11	9.37E-05	2	11
2	20	2.31E-07	2	20
3	6	5.39E-05	3	6
1	26	5.77E-07	2	26
-0.071270342	14	4.51E+00	0.217117667	14
-0.064283368	10	2.62E+00	-0.184366401	10
-0.896088525	7	5.47E+01	-1	7
0.141408301	9	8.49E-01	0.313757962	9
1	15	1.18E-03	2	15
-0.032612011	8	1.77E+00	-0.463139663	8
0.612243452	19	2.24E-02	0.485078544	19
0.093927979	10	1.14E+00	-0.950693674	10
0.225362208	9	5.64E-01	-0.03138534	9
0.23887372	6	5.15E-01	-0.214951479	6
-0.378535836	6	5.12E+00	-0.19821796	6
-0.139317563	8	2.86E+00	-0.110603578	8
0.727101981	12	2.88E-02	0.41718048	12
-0.050851166	2	9.40E-01	-0.839542602	2
2	3	3.52E-03	3	3
3	6	5.40E-05	3	6
1	9	1.58E-03	1	9
1	6	1.16E-02	1	6
0.754101301	10	3.57E-02	0.86274066	10
1	10	8.47E-04	2	10
-0.034073799	37	4.67E+01	0.731972226	37
-0.14405256	10	3.97E+00	-0.464483127	10
-0.054386518	7	1.73E+00	0.123287055	7
0.458139304	8	1.96E-01	-0.031567737	8
0.153714627	7	7.37E-01	0.331281727	7
0.580661529	3	2.08E-01	1	3
0.003764048	3	9.20E-01	0.014548634	3
-0.001172067	3	9.32E-01	0.000660405	3
0.989759714	6	3.15E-02	1	6
1	18	2.38E-05	2	18
0.551116487	6	1.61E-01	0.915748934	6
0.985521831	42	1.50E-06	1	42
-0.389060042	2	1.97E+00	0.199496154	2
0.504385397	4	2.31E-01	0.439242263	4
1	14	2.19E-03	2	14

0.039334499	2	7.72E-01	-0.09546564	2
0.772415702	25	1.72E-03	0.894171265	25
0.453063222	1	3.35E-01	0	1
0.143031974	12	9.64E-01	0.214307979	12
1	4	2.58E-02	1	4
1	6	1.90E-02	1	6
1	9	2.06E-03	2	9
2	10	2.24E-05	2	10
1	45	8.60E-09	2	45
-0.001566726	2	8.44E-01	-0.036003801	2
-0.194618943	5	2.17E+00	2	5
-1	43	2.89E+09	-0.535591893	43
0	4	1.03E+00	-0.58612826	4
-0.645580111	10	5.53E+01	-0.425623637	10
0.540841061	23	2.72E-02	0.849165861	23
-0.722262871	10	8.27E+01	-0.810179136	10
-0.600806794	23	3.15E+03	-0.118942236	23
2	12	6.70E-05	3	12
1	4	1.83E-02	2	4
-0.793440249	13	4.02E+02	-1	13
0.334159752	5	3.72E-01	-0.069884352	5
2	8	1.09E-03	2	8
0.728787389	14	1.99E-02	1	14
0.607168637	14	4.54E-02	0.983419068	14
-0.363920771	4	3.01E+00	-1	4
-0.904274231	6	3.62E+01	0.28464299	6
-0.076235825	5	1.46E+00	-0.130869408	5
-0.424739581	8	1.03E+01	-1	8
-0.85538671	8	7.09E+01	-0.164780052	8
-0.361687718	4	2.99E+00	-0.356146389	4
0.358435255	8	3.06E-01	0.137806981	8
0.312658555	5	3.99E-01	2	5
-0.604790958	5	8.54E+00	0.842403674	5
-0.132614635	3	1.31E+00	0.009756421	3
-0.640377353	2	3.42E+00	-0.405873638	2
-0.511890471	13	6.64E+01	-0.081650161	13
-0.294218461	11	1.08E+01	-0.356187763	11
-0.934010891	31	3.65E+06	-1	31
-0.474532833	6	7.32E+00	-0.471295853	6
-0.635519153	7	1.88E+01	0.568589342	7
-1	3	2.14E+01	0.056192474	3
-0.485825084	6	7.64E+00	-0.249233839	6
-0.326942545	4	2.70E+00	1	4
-0.57813789	5	7.81E+00	1	5
0.357283626	9	2.97E-01	-0.577033548	9
0.519088989	68	3.99E-04	0.756865925	68
0.056038594	63	8.77E+01	0.168779608	63

-0.067584457	4	1.25E+00	0.075905834	4
0.295774975	5	4.23E-01	0.520795719	5
0.227006887	9	5.60E-01	1	9
-0.536002788	12	5.72E+01	0.224347704	12
-0.471243531	17	1.57E+02	-0.037488629	17
-1	2	7.83E+00	0.44096403	2
-0.115871364	3	1.25E+00	-2	3
0.632252843	4	1.58E-01	0.649694964	4
0.063116968	1	6.79E-01	0.222456801	1
0.099417597	3	7.19E-01	-0.778322608	3
0.141584248	10	8.88E-01	-0.146224751	10
0.444294237	2	3.18E-01	0.289373563	2
1	10	1.38E-03	0.786257211	10
-0.025869401	3	9.93E-01	-1	3
0	3	9.29E-01	0	3
0	4	1.03E+00	0	4
0	4	1.03E+00	0	4
0	1	7.61E-01	0	1
-0.00243194	2	8.46E-01	0	2
0	3	9.29E-01	0	3
0	4	1.03E+00	0	4
0	4	1.03E+00	0	4
0.596214691	1	2.59E-01	0.847876636	1
2	14	7.14E-05	2	14
1	7	1.75E-02	0.451027904	7
0.218767866	13	6.21E-01	1	13
-0.194618735	27	9.98E+01	-0.04759876	27
-0.180657486	12	6.75E+00	-0.321894199	12
0.654795175	13	3.82E-02	1	13
1	28	3.31E-05	2	28
-0.13239587	29	6.49E+01	0.009702488	29
-0.309077734	4	2.56E+00	-0.116971235	4
0.959032752	14	4.18E-03	2	14
-0.000733996	1	7.62E-01	-0.053222082	1
0.905662617	3	9.03E-02	0.734309315	3
0.24442669	11	5.21E-01	0.779517107	11
0.394973032	5	3.03E-01	0.97742787	5
0.480526294	8	1.77E-01	0.932839442	8
0.153603035	12	9.04E-01	-0.078664328	12
-0.031318008	10	2.20E+00	-0.132318906	10
0.679300807	22	7.75E-03	0.937366245	22
0.200711805	4	5.67E-01	-0.201311906	4
0.258544811	14	4.82E-01	0.60573135	14
-0.001329635	1	7.63E-01	-0.048632947	1
0.23282108	9	5.44E-01	0.674193779	9
0.48690477	7	1.88E-01	0.993201132	7
0.32492266	6	3.74E-01	0.174541288	6

2	18	4.34E-06	2	18
1	15	5.66E-04	2	15
0.98654378	3	7.33E-02	0.505625852	3
0.679733184	29	2.52E-03	1	29
0	3	9.29E-01	0.180945212	3
0.243310212	10	5.20E-01	1	10
0.173791698	6	6.56E-01	0.40728682	6
0.013776839	1	7.43E-01	0.023863096	1
1	56	5.21E-09	1	56
0.884105859	4	7.52E-02	0.512737121	4
0.41248387	16	1.51E-01	1	16
-0.35900905	5	3.76E+00	0.612644998	5
0.146680823	19	1.28E+00	0.614278099	19
0.250181454	4	4.90E-01	0.3639928	4
0.331174387	4	3.86E-01	0.765213144	4
-0.891722217	5	2.23E+01	-0.196187246	5
0.652791633	5	1.28E-01	1	5
-0.89936492	12	5.08E+02	0.149860217	12
-0.955401148	6	4.38E+01	-0.546319526	6
-0.213702987	15	1.42E+01	0.398423759	15
-0.035004511	1	8.11E-01	-0.169622156	1
-1	2	2.19E+01	-0.04639524	2
0.004776337	9	1.65E+00	-0.44805923	9
-0.397927904	13	3.21E+01	0.787875459	13
0.36894736	4	3.45E-01	0.89200259	4
0.163939049	13	8.82E-01	0.666096702	13
0.366020333	22	1.69E-01	0.818700721	22
-1	8	8.33E+02	0.051410102	8
-0.321748894	29	6.93E+02	-0.000551556	29
-0.227705063	10	6.17E+00	0.192723446	10
-0.785929305	6	2.33E+01	0.216143823	6
-1	12	1.17E+03	-0.913164066	12
-0.014403558	3	9.64E-01	0.055244044	3
0.138814008	27	1.99E+00	0.133772534	27
1	2	8.25E-02	0.666041607	2
1	8	3.74E-03	0.110584903	8
2	6	3.18E-04	3	6
4	10	5.51E-09	4	10
0.163648647	14	9.17E-01	0.151206794	14
-0.195646817	3	1.54E+00	-0.502243736	3
-0.666464653	12	1.25E+02	0.18314873	12
1	27	1.80E-05	2	27
0.08718314	4	7.93E-01	1	4
0.508131426	8	1.57E-01	0.724155372	8
2	20	6.17E-06	1	20
0.740650252	29	1.17E-03	0.664424363	29
-0.894222495	2	5.97E+00	0.23826447	2

0.015965646	13	2.27E+00	0.246091997	13
-0.164684754	22	3.11E+01	-0.326179568	22
-0.923356345	7	6.11E+01	-0.902528823	7
-0.636079157	15	2.92E+02	0.136997511	15
-0.010275324	2	8.60E-01	-0.035825553	2
0.148109107	16	1.11E+00	0.761262838	16
1	42	5.52E-09	2	42
0.492853301	13	1.08E-01	0.394816072	13
0.7264197	10	4.12E-02	-0.075985111	10
-0.382140496	7	6.64E+00	-0.179052532	7
0.682306253	29	2.44E-03	1	29
0.93163469	14	5.04E-03	1	14
-0.034549715	13	3.14E+00	0.397691886	13
0.154605066	9	7.96E-01	0.193937155	9
0.707615416	7	7.59E-02	0.591616828	7
0.858403672	30	2.14E-04	1	30
0.64118366	3	1.78E-01	0.605838482	3
0.514324778	4	2.24E-01	0.923912388	4
1	7	6.18E-03	2	7
1	6	1.43E-02	2	6
0.569169164	9	1.06E-01	0.592041853	9
0.265141648	19	4.57E-01	0.624300859	19
0.018246098	1	7.37E-01	-0.000188492	1
2	38	1.27E-10	2	38
0.589046593	1	2.62E-01	0.585631003	1
0.588603061	5	1.59E-01	0.553369443	5
0.391681503	7	2.78E-01	0.003832342	7
0.553717299	28	1.36E-02	1	28
-0.531729079	5	6.69E+00	1	5
0.996955799	11	7.52E-03	0.681819248	11
0.740350114	7	6.64E-02	-0.151209503	7
-0.178992965	22	3.58E+01	0.501077782	22
0.032813283	2	7.83E-01	0.080906835	2
0.38894447	11	2.31E-01	1	11
0.869480244	8	3.10E-02	2	8
0.252252431	4	4.87E-01	0.289536136	4
1	21	2.62E-04	1	21
-0.126213874	8	2.69E+00	0.615010375	8
0.31445847	9	3.66E-01	-0.023154213	9
0.150112788	5	6.87E-01	-0.307161167	5
0.674864252	18	1.52E-02	1	18
0.78525573	2	1.50E-01	0.77823479	2
1	7	1.70E-02	2	7
-0.329201496	19	7.98E+01	0.012281453	19
2	29	6.99E-12	3	29
0.386842962	8	2.70E-01	1	8
0.145373602	16	1.13E+00	0.21322041	16

-0.745564941	5	1.37E+01	-0.330979673	5
-0.513448065	6	8.46E+00	-1	6
-0.137522934	10	3.84E+00	0.279898083	10
0.537463874	6	1.70E-01	2	6
-0.146581706	2	1.16E+00	0.261005913	2
0.88360428	19	2.12E-03	0.913085593	19
-0.024493703	25	1.09E+01	-0.128822117	25
0.794207591	15	1.04E-02	0.692100848	15
-0.406617979	5	4.41E+00	-0.787140235	5
-0.007386496	4	1.05E+00	-0.009214258	4
-1	21	3.81E+05	-0.98256708	21
0.05897857	11	1.48E+00	0.317381586	11
0.050279724	9	1.32E+00	1	9
1	11	6.90E-04	3	11
0.029374768	4	9.41E-01	0.094057008	4
0.951043972	6	3.64E-02	2	6
2	32	4.83E-09	2	32
-0.477882594	10	2.29E+01	-0.007324208	10
0.919204811	8	2.48E-02	0.982014723	8
0.412226781	10	2.14E-01	0.446585195	10
-0.518248726	11	3.82E+01	-0.362406122	11
-0.074936504	1	8.72E-01	0	1
-0.308742938	10	9.43E+00	-0.599768083	10
0.300116754	2	4.36E-01	-0.043161119	2
-0.188279841	5	2.13E+00	0.07688339	5
-0.050249829	5	1.34E+00	0.236668639	5
-1	23	1.16E+06	-2	23
-0.321030361	3	2.12E+00	0.496840896	3
0.318992897	8	3.66E-01	0.443339134	8
-0.527287792	2	2.67E+00	0.033333452	2
0.012883127	16	3.08E+00	0.553899157	16
0.644476301	10	6.34E-02	2	10
0.934672441	22	6.29E-04	2	22
2	10	7.84E-05	2	10
1	19	1.37E-05	2	19
0.249589896	4	4.91E-01	0.680284938	4
-0.241164683	29	2.53E+02	0.05769685	29
-0.038720047	2	9.16E-01	-0.730998098	2
0.200618535	7	6.08E-01	0.34493447	7
1	3	2.52E-02	1	3
0.909059808	3	8.95E-02	0.590063811	3
0.479394113	18	7.73E-02	0.837241332	18
0.79485078	11	2.35E-02	1	11
-0.585777279	22	1.96E+03	-0.650533465	22
-0.052064109	6	1.52E+00	-0.124491532	6
0.699034801	7	7.87E-02	0.001996445	7
0.509748396	5	2.07E-01	0.880131486	5

0.939245021	14	4.78E-03	1	14
-0.427380835	6	6.14E+00	-0.831155697	6
0.249521347	3	4.89E-01	-0.721525373	3
-0.781517918	23	2.00E+04	-0.115909077	23
0.763628617	28	1.07E-03	1	28
0.541075425	4	2.07E-01	0.33515887	4
1	24	2.66E-06	2	24
1	3	4.43E-02	2	3
0.66765649	10	5.61E-02	0.780556064	10
0.607456024	2	2.22E-01	0.123559418	2
-0.000565201	1	7.62E-01	-5.77E-05	1
-0.113327979	3	1.24E+00	-0.499188737	3
0.864228616	26	5.00E-04	0.642670026	26
0.243379974	7	5.10E-01	0.832546618	7
-0.281267843	9	6.64E+00	-0.124376129	9
0.245457614	14	5.27E-01	0.115558922	14
1	24	1.52E-04	2	24
-0.051291263	10	2.44E+00	0.736646469	10
0.978832777	20	7.05E-04	1	20
1	19	3.37E-05	2	19
-0.544358611	24	2.41E+03	-0.410581223	24
-0.602611794	26	8.64E+03	-0.456241124	26
0.417058811	17	1.38E-01	0.723222457	17
-0.787302765	19	4.27E+03	0.204137324	19
-0.191867887	4	1.81E+00	-0.283773953	4
2	16	1.43E-05	2	16
0.163690793	6	6.81E-01	0.779018628	6
-0.133847827	12	5.09E+00	0.642507483	12
0.022958669	1	7.30E-01	0	1
-0.717471684	6	1.81E+01	0.620530381	6
0.8934538	12	1.06E-02	0.717971526	12
0.8704228	25	5.88E-04	1	25
0.260706818	45	4.75E-01	0.448789856	45
0.739581681	7	6.66E-02	0.73030229	7
-0.064405915	15	4.87E+00	0.453195238	15
0.510736782	6	1.87E-01	0.601045812	6
-0.704505626	14	3.29E+02	-0.439658246	14
-0.016241644	2	8.72E-01	-0.21401484	2
-0.635208603	6	1.33E+01	0.104887111	6
-1	13	1.07E+04	-1	13
-1	6	1.85E+02	-1	6
-0.362591352	14	3.24E+01	-0.328886335	14
0.492105522	4	2.40E-01	-0.480272876	4
-0.026505682	3	9.95E-01	-0.282101495	3
-0.126404707	9	3.13E+00	0.493294367	9
1	35	2.97E-07	1	35
1	30	3.47E-07	2	30

-0.133885694	5	1.77E+00	0.113959368	5
0.170807708	14	8.74E-01	0.444625423	14
0.004249417	13	2.45E+00	-0.263114834	13
1	14	1.11E-03	0.641662701	14
1	6	1.15E-02	1	6
0.509163379	8	1.56E-01	-0.339311414	8
-0.658346969	11	8.40E+01	-0.310864329	11
0.365889651	34	1.04E-01	0.519678451	34
0.111237261	1	6.23E-01	0.141663124	1
0.306969602	8	3.86E-01	0.827515536	8
-0.002019068	3	9.34E-01	-0.001121873	3
0.407201292	3	3.26E-01	-1	3
-0.655098412	3	5.02E+00	-0.256971523	3
-0.377840334	7	6.52E+00	0.163397141	7
-0.450304506	4	3.89E+00	0.467626193	4
-0.478615436	4	4.23E+00	0.415065475	4
0.661137275	26	5.02E-03	1	26
1	9	8.00E-03	2	9
2	6	1.44E-03	1	6
0.060275957	9	1.26E+00	0.208042651	9
0.659637208	3	1.70E-01	0.636272095	3
0.485541162	8	1.73E-01	1	8
2	28	2.23E-10	3	28
0.297133471	17	3.56E-01	0.547711697	17
0.055288923	8	1.19E+00	1	8
0.318911994	4	4.00E-01	-0.630874659	4
0.816395014	6	6.01E-02	0.82823428	6
0.097250869	32	4.43E+00	0.570761787	32
0.811093974	2	1.42E-01	0.910036322	2
0.582622936	10	8.77E-02	1	10
0.540007041	28	1.61E-02	1	28
-0.119373534	5	1.69E+00	0.529227601	5
1	3	5.23E-02	2	3
0.402357899	6	2.80E-01	0.026220417	6
-0.027547048	8	1.73E+00	-0.19544272	8
-0.013021795	2	8.66E-01	0.045568983	2
2	23	8.39E-07	2	23
0.872419846	14	7.52E-03	0.564904543	14
-0.030411544	3	1.00E+00	0.874338089	3
1	4	1.97E-02	0.645032392	4
0.416309722	11	1.98E-01	0.556398544	11
0.324570869	15	3.01E-01	0.68022109	15
-0.159800465	11	5.07E+00	-0.128138381	11
-0.91695921	11	3.60E+02	-0.751814744	11
-0.899782299	6	3.56E+01	-0.313119615	6
-0.259511757	4	2.21E+00	1	4
0.019654672	2	8.06E-01	0.28847431	2

0.640928715	32	2.64E-03	1	32
0.048481766	2	7.56E-01	-0.073562083	2
-0.829747821	3	7.87E+00	-0.50701528	3
-2	5	1.95E+02	-2	5
-0.621789661	5	9.04E+00	-0.046605372	5
-0.12229455	5	1.71E+00	-0.461501658	5
-1	7	2.33E+02	-2	7
-1	4	2.54E+01	-2	4
0.167247147	4	6.26E-01	-0.170349208	4
0.723684383	37	3.53E-04	1	37
0.999669169	2	9.40E-02	0.654604793	2
0.029633156	8	1.34E+00	0.088787887	8
0.326872144	7	3.62E-01	0.619549053	7
-2	4	2.36E+02	-2	4
-0.80762554	7	3.80E+01	-1	7
-0.378235465	3	2.46E+00	-1	3
-0.587659943	20	1.04E+03	-0.825965923	20
0.400701384	9	2.40E-01	0.158594454	9
-0.118885825	5	1.69E+00	-0.012661064	5
-0.368125393	3	2.40E+00	0.019919037	3
0.198612386	9	6.43E-01	-0.126044543	9
1	26	1.62E-06	2	26
0.97713901	12	6.40E-03	1	12
0.69041268	5	1.13E-01	0.905815195	5
2	8	7.76E-04	2	8
1	18	3.42E-04	2	18
-2	11	1.71E+04	-1	11
-0.295442067	9	7.11E+00	-0.362658967	9
1	11	5.00E-04	2	11
-0.973213705	9	1.93E+02	-0.760914887	9
-0.961646932	6	4.48E+01	-0.575264996	6
-1	12	5.47E+03	-2	12
-0.954183553	6	4.36E+01	-0.588926233	6
8.36E-05	11	2.06E+00	-0.291825496	11
0.376433811	14	2.17E-01	0.412523388	14
-0.389371998	6	5.33E+00	0.50199735	6
2	37	7.60E-12	2	37
0.407409523	7	2.60E-01	0.110220278	7
0.298032837	12	3.80E-01	0.354238205	12
-0.222076302	5	2.38E+00	-0.605378094	5
-0.003337681	7	1.40E+00	0.336354983	7
0	1	7.61E-01	-0.040338981	1
-0.170769967	3	1.44E+00	-0.151840836	3
0.615951935	7	1.11E-01	0.368218221	7
-0.24723235	5	2.59E+00	0.14241944	5
-0.446125647	9	1.48E+01	-0.470467977	9
-0.791055312	8	5.31E+01	-0.467083303	8

0.699964117	6	9.27E-02	0.752246034	6
1	10	5.17E-03	2	10
1	6	8.06E-03	1	6
-0.293933135	18	4.76E+01	0.292859889	18
0.018624191	24	6.18E+00	1	24
0.424415117	13	1.67E-01	2	13
3	36	3.30E-17	3	36
-0.013545805	11	2.23E+00	1	11
1	10	3.28E-03	2	10
2	5	8.24E-04	2	5
3	3	1.33E-03	2	3
0.475517157	3	2.73E-01	-0.030125146	3
-0.26734523	11	9.29E+00	0.074704621	11
-1	5	4.16E+01	-0.884845044	5
-0.789963709	19	4.37E+03	-0.597583754	19
-1	6	7.92E+01	-0.977380668	6
0.498488922	17	7.22E-02	0.372113131	17
0.921550626	16	3.25E-03	1	16
1	12	4.56E-03	0.401347425	12
0.173523275	19	1.01E+00	0.467133585	19
0.605661845	3	1.95E-01	0.632646062	3
0.692479189	13	3.00E-02	2	13
0.02559907	17	3.06E+00	0.342448052	17
-0.368076773	6	4.93E+00	0.85362804	6
0.701966109	3	1.53E-01	1	3
2	2	8.31E-03	1	2
0.578955246	5	1.64E-01	1	5
-0.165818968	5	1.97E+00	0.211375865	5
0.368222322	7	3.06E-01	1	7
-0.922587531	9	1.51E+02	-0.162704868	9
-0.402532685	11	1.99E+01	-0.895345948	11
-0.000605045	3	9.31E-01	-0.00011038	3
-0.2317941	4	2.04E+00	-0.293962655	4
-0.025413781	1	7.97E-01	-0.042232036	1
1	8	3.06E-03	1	8
0.389254034	18	1.63E-01	0.995230303	18
0.058101117	4	8.65E-01	0.176380698	4
0.918317	15	4.29E-03	1	15
-0.253503834	6	3.22E+00	-0.555572821	6
0.780508925	13	1.71E-02	0.984176918	13
0.198677583	5	5.84E-01	0.018074047	5
-0.712617464	23	9.88E+03	-0.494529898	23
0.062014478	13	1.69E+00	0.293121844	13
0.931917554	34	2.98E-05	1	34
-0.187859578	2	1.27E+00	0.394486207	2
0.624499385	7	1.07E-01	1	7
-0.195128378	4	1.83E+00	-0.283312651	4

-0.312536789	6	4.01E+00	-0.240936706	6
0.103561233	4	7.56E-01	-0.467299089	4
-0.069646751	3	1.11E+00	0.018115041	3
-0.019804836	1	7.89E-01	0	1
0.084012226	19	2.20E+00	-0.108901821	19
0	1	7.61E-01	0	1
-0.584496739	7	1.52E+01	-0.866750342	7
-0.723726241	17	1.16E+03	-2	17
0.198352751	2	5.45E-01	1	2
0.377028023	9	2.70E-01	1	9
1	7	2.21E-02	1	7
0.484952759	28	3.13E-02	1	28
0.054017199	13	1.78E+00	-0.064680682	13
0.816297722	27	6.97E-04	1	27
-1	2	2.19E+01	-0.477058835	2
-0.39553416	3	2.57E+00	-0.180954719	3
0.027707533	8	1.35E+00	0.391300183	8
-0.312155233	7	4.98E+00	0.724152212	7
-0.739178972	4	9.13E+00	-0.737079565	4
0.049414735	3	8.18E-01	-0.937456539	3
1	12	4.58E-03	0.140473914	12
0.805762597	3	1.17E-01	-0.449606051	3
1	3	5.07E-02	1	3
-0.682415643	9	4.68E+01	-0.406723156	9
-0.179856187	4	1.75E+00	-0.37992069	4
0.834506853	9	2.91E-02	2	9
-0.040833393	1	8.20E-01	0.067527946	1
0.14126075	2	6.17E-01	0.03551314	2
-0.000697747	2	8.42E-01	-6.47E-05	2
0.365298366	4	3.49E-01	1	4
0.095687326	5	8.24E-01	-0.735788592	5
0.299518018	5	4.17E-01	2	5
1	6	7.82E-03	2	6
-0.141069153	2	1.15E+00	0.805183935	2
0.526881921	9	1.30E-01	-0.03390114	9
-0.005526685	21	5.88E+00	-0.060588874	21
-0.573972079	9	2.76E+01	-0.89961114	9
-0.576292096	2	2.98E+00	-1	2
-1	7	2.92E+02	-2	7
-0.121060075	5	1.70E+00	-0.040794014	5
-0.293817987	7	4.62E+00	-0.690242185	7
0.303512807	19	3.27E-01	0.735605846	19
0.07957414	19	2.29E+00	0.179590744	19
-1	13	3.56E+04	-0.941228596	13
0.007886917	5	1.10E+00	0.120122299	5
-0.497177869	5	5.96E+00	0.07121282	5
-0.609266909	4	6.22E+00	0.23814878	4

-0.069859382	1	8.64E-01	0	1
0.183736011	6	6.33E-01	0.483566642	6
0.910861864	8	2.57E-02	1	8
0.630559097	15	3.36E-02	1	15
-1	14	5.19E+03	-0.895615658	14
-0.16731455	3	1.43E+00	-0.226354157	3
0.024167003	6	1.15E+00	0.322618296	6
0.481502009	4	2.47E-01	0.597805006	4
-0.330492631	6	4.28E+00	-0.623792022	6
-0.602915274	3	4.39E+00	-0.674309806	3
-0.348814818	10	1.16E+01	0.398955342	10
-0.010527591	8	1.60E+00	-0.016896086	8
0.734706988	11	3.29E-02	0.746431473	11
0.119290146	14	1.24E+00	0.033677883	14
0.225432742	8	5.56E-01	0.44025142	8
-0.423105817	3	2.76E+00	-0.888617418	3
0.201155882	11	6.64E-01	-0.17315276	11
0.715381396	14	2.18E-02	1	14
0.148817268	6	7.20E-01	-0.57776003	6
0.202929283	93	4.02E+00	0.495984198	93
-0.559744507	11	4.82E+01	-0.4808014	11
0.645544424	16	2.61E-02	0.658134001	16
0.330840194	2	4.07E-01	0.899240718	2
1	1	6.23E-02	3	1
0.421421745	4	2.95E-01	1	4
0.906266294	7	3.36E-02	0.622583642	7
2	37	3.10E-14	2	37
0.620527083	6	1.25E-01	2	6
0.518161237	2	2.70E-01	2	2
0.33791679	10	3.17E-01	0.35189321	10
2	17	1.80E-08	3	17
-0.045230981	6	1.48E+00	0.896797808	6
0.142006716	4	6.75E-01	0.311397723	4
0.164642897	2	5.86E-01	0.128249206	2
-0.953285642	30	2.97E+06	-0.977062775	30
-0.217342494	17	2.10E+01	-0.123847552	17
0.065178462	13	1.66E+00	0.110281481	13
-0.150393024	21	2.31E+01	0.118191571	21
0.338957645	7	3.45E-01	0.198221064	7
0.799998361	7	5.20E-02	0.058152276	7
0.595612947	16	3.80E-02	2	16
0.200011762	13	7.00E-01	-0.084567592	13
0.168076997	23	1.22E+00	0.189676183	23
0.143618546	18	1.26E+00	0.355182743	18
0.70075347	6	9.24E-02	0.306065055	6
0.159550399	13	9.07E-01	-0.115966833	13
-0.351963859	3	2.30E+00	0.308064816	3

-0.35261504	13	2.40E+01	-0.394656192	13
0.013121308	7	1.31E+00	-0.264538188	7
-0.234250605	14	1.36E+01	-0.194695878	14
-0.006817066	7	1.42E+00	0.29943792	7
0.05840262	2	7.40E-01	2	2
0.513368522	7	1.68E-01	0.647517575	7
0.287597484	26	3.50E-01	0.243708331	26
1	18	6.59E-05	2	18
0.193979701	4	5.79E-01	0.922598298	4
0.301723153	6	4.08E-01	-0.220607957	6
0.196937558	4	5.74E-01	0.991975849	4
0.403857091	5	2.95E-01	0.391487778	5
0.784582768	5	8.26E-02	-0.125472607	5
-1	8	3.43E+02	-2	8
-0.144911576	9	3.42E+00	-0.313777879	9
0.086037235	18	2.03E+00	0.848009105	18
2	4	1.00E-02	2	4
2	13	5.32E-07	3	13
0.470760733	21	6.52E-02	0.714812527	21
0.572872714	18	3.55E-02	0.796179374	18
0.325670546	1	4.22E-01	0.794267115	1
0.046388441	6	1.05E+00	0.086571658	6
2	11	4.41E-04	2	11
-0.035573893	13	3.16E+00	0.175630585	13
0.488387875	23	4.64E-02	0.688088256	23
0.061098236	10	1.35E+00	0.708405699	10
0.871011268	19	2.37E-03	1	19
0.089145501	6	8.99E-01	0.326943219	6
0.079795999	17	1.99E+00	0.40396482	17
0.222680381	28	7.53E-01	0.292211034	28
-0.145334103	5	1.84E+00	-0.433652583	5
-0.223689887	6	2.88E+00	0.034928853	6
-0.468974372	11	2.89E+01	-0.807173872	11
-0.427405507	9	1.35E+01	0	9
-0.16100777	9	3.70E+00	-0.002554471	9
0.404241175	53	2.12E-02	1	53
1	29	2.47E-06	2	29
2	13	7.90E-06	2	13
0.929219419	17	2.38E-03	1	17
0.118727867	8	8.98E-01	0.161502087	8
-0.553301063	8	1.83E+01	-0.161141618	8
-0.030289598	5	1.25E+00	0.29032881	5
-0.01417372	25	9.71E+00	-0.137186378	25
0.170526583	8	7.12E-01	-0.132924564	8
0.264091597	5	4.70E-01	0.762249435	5
0.044586602	1	7.02E-01	-0.072488753	1
-0.015451811	2	8.70E-01	-1	2

0.305843273	28	2.75E-01	0.409111841	28
0.486150277	24	4.36E-02	1	24
0.211572574	8	5.92E-01	0.863046683	8
0.005564865	4	1.01E+00	-0.171774973	4
-0.141641722	4	1.56E+00	-0.800221009	4
-0.334139368	30	1.02E+03	-0.566286564	30
-0.422162592	11	2.22E+01	-0.986679616	11
-0.199500003	4	1.85E+00	0.24297049	4
0.030399919	11	1.74E+00	0.104930936	11
0.329535702	6	3.68E-01	0.954304435	6
-0.308487903	3	2.06E+00	-0.793065146	3
0.498168956	9	1.50E-01	1	9
-0.03469498	8	1.79E+00	0.038308253	8
-0.083201532	5	1.50E+00	0.168911252	5
0.226727965	11	5.75E-01	0.189156172	11
0.019287288	6	1.17E+00	0.070208465	6
-0.028403125	12	2.70E+00	0.083582129	12
0.60782339	5	1.49E-01	2	5
0.501378404	8	1.61E-01	0.824983327	8
0.835595093	10	2.32E-02	0.522342093	10
0.222996787	11	5.87E-01	0.218761517	11
-0.002008515	7	1.40E+00	-0.109000507	7
2	13	4.50E-05	2	13
0.955130954	1	1.35E-01	2	1
0	2	8.41E-01	0	2
-0.877488313	9	1.21E+02	-1	9
-0.551627382	18	4.04E+02	-0.152087085	18
0.46386268	8	1.91E-01	0.781706415	8
-0.527951712	6	8.93E+00	0.524579181	6
0.766047371	64	9.93E-07	0.991081497	64
-0.063931465	10	2.61E+00	-0.251156064	10
-0.164095748	7	2.71E+00	0	7
-0.326365455	6	4.22E+00	-0.615367341	6
-0.235420595	9	5.31E+00	-0.132415125	9
0	1	7.61E-01	0	1
0.394608119	27	9.86E-02	0.846524959	27
0.495577615	19	6.17E-02	2	19
0.466088157	7	2.05E-01	0.859022202	7
0.473008341	11	1.44E-01	0.778914847	11
0.965086678	11	9.00E-03	2	11
0.293890583	24	3.34E-01	0.383518886	24
1	11	6.22E-03	0.741769484	11
1	3	2.48E-02	1	3
2	12	3.94E-06	3	12
0.100646037	15	1.49E+00	0.715287182	15
2	6	2.15E-03	2	6
2	17	1.25E-07	3	17

0.784133449	9	3.72E-02	0.244509357	9
-0.067660481	11	3.02E+00	0.729019337	11
0.422520991	10	2.03E-01	2	10
1	6	1.72E-02	0.808470306	6
0.780398989	16	9.43E-03	1	16
0.171549769	34	1.72E+00	0.378789135	34
0.202886244	24	8.77E-01	0.161656845	24
-0.787006544	7	3.49E+01	-0.529760416	7
-0.212390486	11	6.82E+00	0.314655128	11
1	24	3.00E-05	2	24
3	39	1.03E-17	3	39
0.042444908	12	1.76E+00	-0.00859164	12
-0.101088215	12	4.18E+00	-0.091307198	12
-0.170123645	3	1.44E+00	0	3
-0.002040476	8	1.54E+00	0	8
0.397580612	6	2.85E-01	0.194014261	6
0.192838033	21	9.02E-01	0.335177315	21
0.873443751	5	6.14E-02	1	5
0.193330938	12	7.12E-01	0.376752616	12
-0.030344325	9	1.96E+00	-0.499460838	9
-0.380334267	9	1.08E+01	-0.963238853	9
-0.011031803	30	1.58E+01	0.241063197	30
-0.917622867	7	5.97E+01	-1	7
-0.346127776	15	3.66E+01	0.221575737	15
0.269108482	9	4.56E-01	0.541641812	9
0.004444495	9	1.65E+00	-0.101899196	9
0.143215034	13	1.01E+00	0.180576829	13
-0.101688773	2	1.05E+00	-0.189393256	2
0.224584008	6	5.43E-01	-0.089289569	6
0.218685709	24	7.41E-01	0.288019973	24
0.213867308	11	6.18E-01	0.660895528	11
0.1871449	4	5.90E-01	0.55857309	4
0.074876436	24	3.40E+00	0.062257645	24
-0.231487756	92	3.13E+07	0.013323979	92
-0.074377459	11	3.13E+00	-0.007551312	11
-0.575680944	9	2.78E+01	0.001745155	9
1	10	5.50E-03	1	10
0.415861654	12	1.87E-01	0.955360296	12
0.022009317	1	7.32E-01	0.071162034	1
0.92006	4	6.76E-02	0.242231395	4
0.753554457	6	7.59E-02	0.231918922	6
0.312032378	22	2.87E-01	0.340457525	22
-0.073559324	2	9.88E-01	-0.29141213	2
-0.49024807	8	1.38E+01	-0.104476769	8
-0.52870153	4	4.90E+00	-0.390381417	4
-0.073452401	9	2.42E+00	-0.345327764	9
0.253055571	34	5.30E-01	0.387617719	34

0.94544453	22	5.66E-04	1	22
-0.316593019	15	2.96E+01	-0.24780611	15
-0.006729734	4	1.05E+00	0	4
-0.223218559	2	1.37E+00	-0.029460938	2
-0.427807907	5	4.73E+00	0.449450337	5
0.366768887	6	3.20E-01	0.349233362	6
0.200455711	25	9.20E-01	0.553409094	25
-0.648191113	4	6.98E+00	0.548474524	4
1	14	2.53E-03	0.079641409	14
0.120824578	12	1.10E+00	0.061890301	12
-0.699826052	4	8.13E+00	0.067752705	4
0.34619097	9	3.13E-01	0.489904701	9
-0.038381067	4	1.15E+00	-0.105273847	4
0.086495376	16	1.77E+00	0.42715162	16
-0.164900059	38	4.21E+02	-0.068515731	38
-0.042503707	20	7.43E+00	0.022849638	20
-0.288825354	6	3.67E+00	-0.345595485	6
0.56171506	77	4.41E-05	0.98613451	77
-0.24934877	5	2.61E+00	-0.215215502	5
-0.735652013	15	5.95E+02	-0.646518223	15
-0.23226183	5	2.46E+00	-0.357636964	5
-0.598790875	6	1.16E+01	-0.263640128	6
-0.482492448	6	7.54E+00	-0.687661558	6
-0.009718559	4	1.06E+00	-0.046936276	4
-0.11993185	3	1.27E+00	0	3
0.671898407	6	1.03E-01	0.829810896	6
0.03797797	12	1.81E+00	0.42684685	12
0	4	1.03E+00	-0.169901337	4
0.227743531	38	8.04E-01	0.23022712	38
0	2	8.41E-01	0	2
0	4	1.03E+00	0	4
-0.125507158	27	4.43E+01	-0.10450231	27
-0.289665463	20	6.99E+01	-0.174510891	20
0.013511314	29	1.05E+01	0.125067391	29
0.281838069	7	4.36E-01	0.063009529	7
-0.080394258	7	1.92E+00	0	7
-5.66E-05	8	1.53E+00	0	8
0.798269511	49	9.39E-06	1	49
2	37	6.98E-10	2	37
0.413854135	5	2.85E-01	0.993328865	5
0.878397712	9	2.35E-02	0.91183633	9
2	24	3.99E-07	2	24
-0.11627904	6	1.93E+00	-0.214214301	6
0.709566724	10	4.50E-02	0.874251235	10
0.641254766	13	4.17E-02	0.957906102	13
-0.037115701	13	3.19E+00	-0.065548597	13
0.077204439	9	1.16E+00	0.101558397	9

0	6	1.25E+00	0	6
-0.049450486	2	9.37E-01	-0.016827296	2
-0.417514573	10	1.67E+01	-0.211968023	10
0.125560191	36	3.70E+00	0.188408389	36
2	4	6.44E-03	2	4
0.451301098	22	7.29E-02	0.303073928	22
0.124905944	18	1.47E+00	0.554980815	18
2	27	7.37E-08	2	27
-0.892228731	6	3.46E+01	-0.979383315	6
-0.086398398	6	1.73E+00	0.199488456	6
0.278614137	32	3.72E-01	0.377073052	32
0.65208473	19	1.59E-02	1	19
0.01762082	3	8.88E-01	0.013020446	3
0	3	9.29E-01	0	3
-0.084108828	10	2.90E+00	-0.246404943	10
-0.242195594	9	5.49E+00	-0.516626265	9
-0.019817222	15	3.54E+00	-0.041369624	15
-0.125402364	6	2.00E+00	-2.11E-06	6
-0.050350104	23	1.14E+01	0.206135925	23
-0.383352665	76	1.58E+08	-0.054557171	76
0.037476215	12	1.82E+00	-0.015395754	12
1	11	6.41E-03	2	11
-0.100757788	8	2.40E+00	-0.382635063	8
-0.302361382	7	4.78E+00	-0.425224755	7
-0.00073484	8	1.53E+00	0.094960311	8
0.067282555	8	1.13E+00	0.266147359	8
0.111743898	5	7.81E-01	0.562596234	5
-0.088105703	4	1.33E+00	-0.116125421	4
-0.144847383	22	2.56E+01	-0.063196905	22
-0.127846363	10	3.65E+00	-0.13113036	10
-0.000334457	1	7.62E-01	-0.759694967	1
-0.167588732	6	2.34E+00	0.146760648	6
0.344868019	5	3.59E-01	0.431183386	5
-0.422565833	11	2.23E+01	-0.745232948	11
-0.00049244	16	3.41E+00	0.00162504	16
-0.237028855	10	6.48E+00	0.538960018	10
0.150789569	3	6.30E-01	0.037998999	3
0	4	1.03E+00	-0.200352462	4
2	2	1.39E-02	2	2
-0.146548484	14	7.50E+00	-0.295439653	14
0.510735095	71	3.77E-04	0.56728383	71
-0.052182494	2	9.43E-01	0.086484986	2
0.410417866	9	2.29E-01	1	9
0.027358447	5	1.04E+00	-0.670340182	5
-0.622399286	8	2.49E+01	-0.159644014	8
0.082868298	9	1.13E+00	-0.944043116	9
0.532353892	7	1.56E-01	-0.536730809	7

0.210511333	4	5.51E-01	0.290764882	4
-0.125697437	8	2.69E+00	0.013313198	8
-0.78993129	4	1.06E+01	-0.443676808	4
1	5	3.73E-02	0.633042285	5
-0.273359713	10	7.84E+00	-0.635334255	10
0.007472117	2	8.28E-01	-0.004260724	2
-0.145843146	5	1.85E+00	0.181675692	5
-0.99883906	7	8.33E+01	-1	7
0.283473606	7	4.33E-01	-0.217723518	7
-0.089655197	6	1.75E+00	0.060314319	6
0.07761329	32	5.79E+00	0.213664094	32
0	4	1.03E+00	0	4
0.012522235	3	9.00E-01	0	3
0.38423571	3	3.46E-01	0	3
-0.016771206	5	1.20E+00	-0.125755447	5
-0.245724736	5	2.58E+00	-0.277566543	5
-0.001464453	11	2.08E+00	0	11
0.167840383	11	8.01E-01	0.121282792	11
0.222524619	19	6.62E-01	0.08323317	19
-0.557965388	12	6.52E+01	0.490717462	12
0.123675647	2	6.41E-01	0.19983536	2
-0.029606226	1	8.03E-01	0	1
-0.117838956	2	1.09E+00	0	2
0.18306784	9	6.93E-01	0.031271787	9
-0.298512502	8	5.83E+00	0.291387812	8
1	7	2.20E-02	2	7
0.555480842	24	2.09E-02	0.700172532	24
0.44087597	37	2.88E-02	0.580404853	37
1	11	6.59E-03	2	11
0.342011945	39	1.26E-01	0.766245726	39
0.33875198	12	2.97E-01	0.429487138	12
0.69602049	31	1.47E-03	1	31
-0.137650687	3	1.32E+00	0	3
-0.393297624	28	1.32E+03	-0.382747006	28
-0.342171767	3	2.24E+00	0	3
-0.254197931	9	5.82E+00	-0.024783915	9
0.011638394	13	2.34E+00	0.297676261	13
-0.042064021	4	1.16E+00	0.06636484	4
-0.513922682	5	6.31E+00	0.6211967	5
0.246035069	24	5.55E-01	0.476294262	24
0.352358363	4	3.62E-01	-0.496370835	4
0.762198258	6	7.35E-02	0.696264575	6
2	5	2.34E-03	3	5
2	15	3.86E-06	2	15
2	2	2.57E-02	1	2
0.527352957	6	1.76E-01	0.441431674	6
0.102857382	10	1.09E+00	0.056658368	10

-0.002941245	11	2.10E+00	0.029142497	11
0.758617759	29	9.38E-04	0.767182874	29
0.003836213	11	2.02E+00	0	11
0.074392141	17	2.08E+00	0.105025333	17
-0.035724186	5	1.28E+00	-6.06E-06	5
0.473063529	23	5.43E-02	0.836565212	23
0.118821831	43	5.98E+00	0.246965675	43
0.115755673	17	1.50E+00	-0.041113594	17
-0.04118463	16	4.63E+00	0.367256634	16
0.737621123	18	9.05E-03	1	18
0.038917618	5	9.96E-01	-0.049331574	5
-0.217416204	5	2.34E+00	-0.666953073	5
0.149607151	44	3.60E+00	0.217211709	44
0.413731241	3	3.20E-01	-0.009520501	3
0.0794142	6	9.32E-01	0.076106203	6
0.05455481	41	1.61E+01	0.222903256	41
0.630858976	13	4.45E-02	1	13
0.178919044	22	1.06E+00	1	22
0.256228982	21	4.96E-01	0.497287458	21
-0.041586337	17	5.21E+00	-0.159243437	17
-0.196409275	6	2.60E+00	0.348437307	6
0.615531037	11	6.44E-02	0.554857195	11
-0.06707071	15	4.96E+00	-0.174435742	15
0.216372726	23	7.47E-01	0.382477613	23
0.320424059	19	2.83E-01	0.403686787	19
0.029610504	4	9.41E-01	-0.040054947	4
0	1	7.61E-01	0	1
0.07318034	20	2.60E+00	0.229926557	20
-0.014937802	2	8.69E-01	0.024812122	2
0.361306132	81	1.83E-02	0.604899803	81
0.371891649	11	2.54E-01	0.133787166	11
-0.228913118	7	3.54E+00	-0.147453012	7
-0.653228301	6	1.42E+01	-0.383051938	6
-0.790239401	2	4.76E+00	-0.338074697	2
0.106995206	15	1.43E+00	-0.145035041	15
0.210755322	3	5.40E-01	-0.09808353	3
0.408874357	5	2.90E-01	-0.231232099	5
-0.220572509	34	4.90E+02	-0.108759737	34
2	3	2.99E-03	1	3
0.172512794	42	2.22E+00	0.227739354	42
-0.083560604	17	7.27E+00	0.222907861	17
-0.147480936	41	5.09E+02	-0.113659551	41
0.302139263	10	3.82E-01	0.093490773	10
-0.157359683	5	1.92E+00	-0.75242957	5
-1	3	4.08E+01	-0.828145344	3
0.080196017	10	1.23E+00	0	10
0.273720633	10	4.44E-01	0.265993363	10

0.167333862	1	5.62E-01	0.096554828	1
0.345870288	25	1.86E-01	0.889838299	25
0.044841661	13	1.89E+00	0.347506198	13
0.141604649	8	8.10E-01	0.15465209	8
0.179657694	19	9.60E-01	-0.215497645	19
-0.004410582	2	8.49E-01	-0.02350293	2
-0.249392142	14	1.51E+01	-0.220134853	14
1	6	1.26E-02	1	6
0.652729066	9	7.05E-02	2	9
0.278610011	2	4.57E-01	0.446533324	2
0.044778165	12	1.74E+00	0.202270769	12
-0.570723853	12	7.04E+01	-0.05964383	12
-0.78770478	2	4.73E+00	-0.452867351	2
0.167743463	9	7.47E-01	0.078572168	9
0.293824086	30	3.10E-01	0.326656655	30
-0.354058788	10	1.20E+01	0.059776543	10
0.16661284	4	6.27E-01	0.740014623	4
-0.048228265	7	1.69E+00	-0.026596726	7
-0.092504566	2	1.03E+00	0.276268479	2
-0.967859576	28	1.40E+06	-0.757441865	28
0.172303158	6	6.60E-01	-0.454439797	6
-0.15449951	26	5.31E+01	-0.050531702	26
0.263617713	7	4.69E-01	0.077143353	7
0.027572111	19	3.60E+00	0.00067705	19
0	4	1.03E+00	0	4
-0.176293732	13	7.77E+00	0.106862977	13
0.394419895	25	1.09E-01	0.294800483	25
0.327571236	10	3.34E-01	0.57866181	10
-0.404665349	16	7.17E+01	-0.214748796	16
-0.205806544	6	2.69E+00	0.121868416	6
-0.81213222	3	7.52E+00	0.088357174	3
-0.179809022	15	1.11E+01	-0.754248857	15
0.08659325	66	4.91E+01	0.185565849	66
0.083597975	5	8.58E-01	0.239333402	5
0.473437594	94	1.69E-04	0.807548932	94
0.396861026	7	2.72E-01	0.776915557	7
1	21	8.70E-06	2	21
0.912972768	34	3.91E-05	1	34
1	5	1.48E-02	1	5
-0.05303577	26	1.68E+01	-0.072149056	26
0.222464208	22	6.92E-01	0.693182045	22
-0.00382647	5	1.15E+00	0	5
-0.019534274	16	3.93E+00	0.166007942	16
2	13	9.54E-05	2	13
0.017309907	18	3.59E+00	0.199261134	18
-0.030408912	21	7.44E+00	0	21
0	2	8.41E-01	0.008817213	2

0.307237737	63	1.45E-01	0.347951612	63
0.018180793	11	1.86E+00	-0.293855208	11
-0.178433231	13	7.88E+00	0.263705974	13
0.010130118	4	9.96E-01	0	4
0.295841987	6	4.17E-01	-0.244947087	6
-0.028848145	9	1.94E+00	0.228012933	9
-0.249766792	9	5.70E+00	-0.304653557	9
-0.007986364	3	9.49E-01	0	3
0.15220422	12	9.12E-01	-0.005596525	12
0.215224808	24	7.69E-01	0.206299379	24
0.788147449	11	2.44E-02	0.99500146	11
0.198023966	6	6.00E-01	0.250275823	6
-0.019418201	4	1.09E+00	0	4
-0.492487217	9	1.86E+01	-0.556552031	9
-0.071613867	10	2.72E+00	0.156542042	10
0.356166052	7	3.21E-01	0.223751601	7
-0.075537924	5	1.46E+00	0.101418286	5
-0.344218079	19	9.10E+01	0.308993469	19
-0.210550609	19	2.85E+01	-0.184128874	19
0.443917892	7	2.24E-01	1	7
-0.530626847	5	6.67E+00	-0.875205946	5
-0.083804471	4	1.32E+00	0.117282548	4
0	1	7.61E-01	0.040283797	1
-0.472535908	11	2.95E+01	-0.241019537	11
-0.028550245	17	4.70E+00	-0.001349293	17
-0.037105991	3	1.02E+00	0.193699607	3
-0.555351698	6	9.89E+00	0.084977668	6
-0.134502943	13	5.95E+00	0.393358959	13
0.41910031	38	3.80E-02	0.844761647	38
-0.066446319	1	8.59E-01	0.789417352	1
0.65179042	4	1.49E-01	2	4
0.646042313	13	4.04E-02	0.498866099	13
0.45175424	12	1.51E-01	0.710455869	12
-0.080826419	10	2.85E+00	-0.048475406	10
0.04533571	3	8.27E-01	0	3
0.402729041	16	1.63E-01	0.796191334	16
0.733830957	6	8.17E-02	2	6
-0.067198803	8	2.07E+00	0.193583879	8
-0.091280599	10	3.01E+00	0.024874757	10
-0.0980193	5	1.57E+00	-0.323058688	5
0.180306375	31	1.38E+00	0.529540662	31
0.118046343	9	9.51E-01	0.278594375	9
0.474216091	8	1.82E-01	0.481746415	8
1	5	7.73E-03	2	5
1	7	1.29E-02	0.839737778	7
-0.161783801	12	6.02E+00	-0.051150602	12
-0.388469857	29	1.60E+03	-1	29

0.057313011	3	8.02E-01	-0.0723695	3
0.226240495	8	5.54E-01	0.412287922	8
-0.1096806	8	2.50E+00	-0.33451795	8
0.036336068	8	1.30E+00	0.110517013	8
0.357972736	21	1.89E-01	-0.427881899	21
0.294999807	4	4.29E-01	0.091210474	4
-0.477187084	9	1.72E+01	0.033682656	9
-0.40067484	8	9.22E+00	-0.56220189	8
-0.279503131	6	3.54E+00	-0.736472946	6
-0.032551309	3	1.01E+00	-0.027363476	3
-0.899326741	18	7.26E+03	-0.431731737	18
-0.042032328	16	4.66E+00	-0.073367049	16
-0.612648418	31	5.14E+04	-0.002082521	31
2	19	7.07E-09	4	19
0.12945889	23	1.82E+00	0.087973542	23
-0.030060704	7	1.57E+00	0.272230736	7
0.054775229	23	3.89E+00	0.102531605	23
0.337062904	24	2.11E-01	0.432065907	24
-0.065173879	9	2.32E+00	0.071023322	9
-0.07609642	12	3.60E+00	0.050781207	12
0.333045981	22	2.33E-01	0.180559489	22
-0.097878131	11	3.58E+00	-0.157238461	11
-0.296665763	11	1.10E+01	-0.37425232	11
0.131247307	49	6.45E+00	0.318212866	49
-0.38791067	10	1.43E+01	0.428851306	10
-0.52663071	6	8.89E+00	-0.326534944	6
0.870428452	16	4.79E-03	0.987836634	16
0.120364038	3	6.82E-01	0.286892613	3
0.118422403	3	6.85E-01	-0.065022972	3
0.257923406	17	4.86E-01	0.070786367	17
1	8	4.78E-03	1	8
0.51301598	17	6.43E-02	1	17
0.514805145	6	1.85E-01	0.207375597	6
0.610907791	6	1.29E-01	0.24868933	6
0.253288359	10	4.94E-01	0.843811897	10
1	15	2.09E-03	2	15
0.073773657	25	3.70E+00	0.448853012	25
-0.879691896	5	2.14E+01	0.28351891	5
0.401817721	16	1.64E-01	0.555958858	16
0.538143969	15	6.52E-02	0.589816406	15
-0.256551409	25	1.39E+02	0.825768658	25
0.030045589	10	1.59E+00	0.038212941	10
0.275241248	7	4.48E-01	0.674186396	7
0.657682874	19	1.51E-02	1	19
-0.67487305	6	1.54E+01	-1	6
-0.086876959	6	1.73E+00	0.288519577	6
-0.858620252	8	7.19E+01	-0.59463406	8

-0.406042478	11	2.03E+01	-0.007623861	11
-0.605527003	6	1.19E+01	0.512101753	6
0.709188959	3	1.50E-01	1	3
0.899488161	6	4.41E-02	0.540871647	6
0.456749857	7	2.13E-01	0.410974226	7
0.725735834	28	1.69E-03	1	28
0.119180142	13	1.17E+00	0.571764847	13
-0.274375068	6	3.48E+00	0.453332178	6
0.001207666	6	1.25E+00	0.094767951	6
0.535845412	16	5.97E-02	0.658390052	16
0.322236552	5	3.87E-01	0.86514566	5
-0.140581261	10	3.90E+00	0.105814695	10
-0.239894647	10	6.57E+00	0.524862823	10
-0.615254402	5	8.84E+00	-0.327677817	5
-0.109916135	8	2.50E+00	0.394735179	8
-0.184689174	4	1.77E+00	1	4
-0.151651769	13	6.64E+00	-0.088327683	13
-0.000982626	3	9.32E-01	-0.246663766	3
0	2	8.41E-01	0	2
-0.055590638	1	8.42E-01	-0.08898915	1
-0.735712153	5	1.32E+01	-0.629845143	5
0.45655965	6	2.29E-01	-0.404663093	6
-0.074187188	12	3.56E+00	-0.020596152	12
0.2811172	46	3.22E-01	0.425776286	46
-0.041398238	7	1.64E+00	-0.093059497	7
-0.0079561	3	9.49E-01	0.514103724	3
0	3	9.29E-01	0.293225474	3
-0.616656931	22	2.65E+03	-0.299396989	22
-0.171229046	4	1.70E+00	1	4
0.335370402	2	4.03E-01	0.001043885	2
-0.170788525	5	2.01E+00	-0.131986977	5
0.164314149	8	7.32E-01	0.223432832	8
0.248838305	25	5.41E-01	0.087308139	25
1	16	5.63E-05	1	16
2	7	8.36E-04	2	7
2	4	3.31E-03	2	4
4	7	3.52E-07	4	7
1	7	7.21E-03	1	7
0.197465056	23	9.06E-01	0.258463532	23
-0.146099869	12	5.48E+00	-0.428396837	12
-1	6	5.23E+01	-1	6
0.196542672	7	6.18E-01	0.622818309	7
-0.045344044	12	2.99E+00	0.300939161	12
-0.256503738	5	2.67E+00	-0.468377382	5
-0.133192635	7	2.39E+00	0.172792159	7
-0.676664183	4	7.59E+00	-0.247932416	4
-1	9	2.24E+02	-1	9

-2	11	1.01E+04	-0.963481196	11
-1	21	1.75E+05	-1	21
0.088399089	13	1.43E+00	-0.066189983	13
1	31	5.24E-07	1	31
0.603691849	33	3.85E-03	0.794364499	33
0.856310355	13	1.05E-02	1	13
-0.354551245	6	4.69E+00	0.130731876	6
0.939142811	5	4.93E-02	2	5
0.062923853	13	1.68E+00	0.096743573	13
0.365301248	7	3.09E-01	-2	7
2	7	9.75E-05	2	7
0.296796059	8	4.04E-01	-0.120307209	8
-0.158597052	12	5.91E+00	0.072030593	12
-0.267778354	10	7.61E+00	-0.04055605	10
4	15	8.38E-12	3	15
-0.099431753	21	1.43E+01	0.25025803	21
1	36	6.27E-09	2	36
2	21	1.76E-06	2	21
0.736098466	4	1.17E-01	1	4
0.445130741	4	2.75E-01	0.757794788	4
0.011966729	3	9.01E-01	-6.18E-05	3
0.402301911	8	2.52E-01	0.284615511	8
-0.674616649	6	1.54E+01	0.273704184	6
0.271633899	2	4.64E-01	0.317681883	2
0.875711982	7	3.81E-02	0.244962131	7
1	53	3.34E-10	1	53
0.547893758	10	1.05E-01	0.907851501	10
0.850199548	5	6.64E-02	-0.626640082	5
-0.030639338	27	1.45E+01	0.396068803	27
0.394010711	9	2.48E-01	0.549233601	9
0.338458249	14	2.80E-01	0.140896524	14
0.547983853	8	1.31E-01	1	8
1	51	6.96E-09	2	51
0.595521004	25	1.20E-02	0.680867963	25
-0.026744721	4	1.11E+00	-0.440128902	4
0.570579404	14	5.82E-02	1	14
-0.939304261	6	4.13E+01	-0.099596715	6
-0.017580069	5	1.20E+00	0.023001362	5
0.0146576	11	1.90E+00	0.639066802	11
1	13	5.94E-04	2	13
1	20	2.22E-04	2	20
0.415570514	12	1.87E-01	0.971803377	12
1	8	6.88E-03	1	8
0.247893596	18	5.28E-01	0.497824613	18
-2	5	5.41E+02	-2	5
0	36	2.49E+01	0	36
0	12	2.28E+00	0	12

0	8	1.53E+00	0	8
0	5	1.13E+00	0	5
0	5	1.13E+00	0	5
0	8	1.53E+00	0	8
0.030000092	42	2.68E+01	0.001424125	42
0	12	2.28E+00	0	12
0	1	7.61E-01	0	1
-0.630183831	3	4.71E+00	-1	3
-0.129311359	16	8.99E+00	-0.256123351	16
-0.203961566	2	1.32E+00	1	2
0.192439516	1	5.37E-01	0.405545431	1
0.604001015	6	1.32E-01	0.228024461	6
0.716402626	31	1.12E-03	1	31
1	11	7.37E-03	1	11
0.167333862	1	5.62E-01	0.27220398	1
0.55922545	6	1.56E-01	0.041707493	6
0.729912493	14	1.98E-02	1	14
-0.176068287	5	2.04E+00	1	5
2	30	7.31E-10	2	30
0.802400742	31	3.58E-04	0.809876562	31
0.207090871	4	5.57E-01	0.446939762	4
-2	5	2.45E+02	-2	5
-0.019508761	5	1.21E+00	-0.196755383	5
-0.107685751	7	2.15E+00	-0.45116197	7
0.079875952	11	1.31E+00	0.162333084	11
-0.109230329	8	2.50E+00	0.210921719	8
0.844703474	27	4.99E-04	1	27
0.064738103	9	1.23E+00	0.715585249	9
0.007797064	18	3.88E+00	0.066484103	18
-0.021208881	2	8.81E-01	0	2
0	3	9.29E-01	0	3
0.105306609	13	1.28E+00	0.159591646	13
0.171172318	13	8.42E-01	-0.343046833	13
-0.020881282	23	8.43E+00	-0.154043027	23
-0.14313954	15	8.56E+00	-0.19675167	15
0.975522964	11	8.49E-03	-0.269778986	11
0.094673456	20	2.14E+00	0.479094673	20
-0.803646667	35	3.30E+06	-0.206278796	35
-0.414665648	2	2.09E+00	-8.02E-05	2
0.216761137	9	5.88E-01	0.586992084	9
0.365775238	4	3.48E-01	-0.338642786	4
0.012451284	6	1.20E+00	-0.498332454	6
0.521879464	9	1.33E-01	1	9
0.617584218	9	8.36E-02	0.26050477	9
0.052221557	5	9.53E-01	0.112051612	5
-1	8	1.02E+03	-0.615597282	8
-0.92016772	4	1.56E+01	-2	4

0.124411217	24	2.01E+00	0.525733079	24
0.341373592	13	2.84E-01	0.802075035	13
-0.164686849	2	1.21E+00	-0.02033476	2
-0.200981779	9	4.49E+00	-0.516757793	9
0.347179903	19	2.24E-01	0.961365401	19
0.315855029	13	3.34E-01	0.740047693	13
-0.3097642	6	3.97E+00	0.074204393	6
0.455317577	21	7.55E-02	0.903744647	21
-0.027254661	4	1.11E+00	-0.087874064	4
0.057065467	18	2.58E+00	-0.016288983	18
0.012856518	7	1.31E+00	0.599024247	7
-0.408073793	8	9.53E+00	-0.154080522	8
0.275526459	6	4.50E-01	0.281568647	6
0.050584541	69	1.63E+02	0.599087331	69
0.994795448	68	8.68E-10	2	68
0.372277578	9	2.76E-01	-0.274058377	9
2	4	1.54E-03	2	4
2	4	8.94E-04	3	4
2	5	1.18E-03	2	5
0.944410028	6	3.73E-02	0.806218704	6
0.129311034	13	1.10E+00	0.150292377	13
0.119339394	1	6.14E-01	0.439220928	1
1	20	8.00E-05	2	20
0.45356324	9	1.86E-01	0.527733168	9
0.271763902	5	4.58E-01	0.270593159	5
0.509907346	18	6.00E-02	0.674862026	18
0.329546408	12	3.14E-01	0.635011632	12
0.116178322	9	9.60E-01	0.474895867	9
0.487980772	16	8.56E-02	0.501313721	16
2	9	8.84E-04	2	9
1	6	1.16E-02	2	6
0.268254123	18	4.46E-01	0.132856216	18
0.287499442	2	4.48E-01	0.643570415	2
0.295469898	10	3.96E-01	0.691751664	10
0.125409432	16	1.32E+00	0.563858247	16
-0.000442961	1	7.62E-01	0.032908201	1
-0.000294409	2	8.42E-01	0.007011698	2
-0.098471781	10	3.13E+00	0.124539416	10
0.341187865	42	1.16E-01	0.465025657	42
2	29	8.09E-08	2	29
-0.15694748	49	2.14E+03	-0.138144693	49
-0.627126711	13	1.39E+02	-1	13
-0.009607392	7	1.44E+00	-0.030604374	7
-0.605498731	18	6.32E+02	-0.40180065	18
0.432988345	14	1.48E-01	0.230506909	14
0.610414088	21	1.74E-02	0.96023895	21
-0.380648937	8	8.43E+00	-0.134371242	8

0.179003472	53	2.79E+00	0.725784182	53
0.574501686	24	1.71E-02	0.313567276	24
-0.069325158	10	2.69E+00	0.036789214	10
0.672168577	16	2.13E-02	0.493243311	16
-0.539688592	7	1.27E+01	-0.491576913	7
-0.29760546	6	3.79E+00	0.012057083	6
-0.38956974	6	5.34E+00	0.250336827	6
-0.161881827	6	2.29E+00	0.397956908	6
-0.21304069	3	1.61E+00	-0.119548267	3
-0.589556805	6	1.12E+01	-0.164983309	6
0.077026024	17	2.04E+00	-0.11100189	17
1	14	9.12E-04	2	14
0.594803172	21	2.02E-02	0.591047708	21
2	13	1.27E-04	3	13
0.688718591	4	1.34E-01	0.937845342	4
1	6	1.52E-02	1	6
1	5	1.35E-02	1	5
0.113154871	3	6.94E-01	0.68996962	3
-0.00044039	2	8.42E-01	-0.210321472	2
-0.035046404	6	1.43E+00	-0.341871693	6
0.177766903	8	6.89E-01	0.57258739	8
0.125077529	12	1.07E+00	0.789479936	12
-0.629850505	3	4.70E+00	-1	3
0.011898816	7	1.32E+00	-0.46045324	7
0.222513237	11	5.89E-01	1	11
0.340700786	96	2.25E-02	0.342321322	96
0.433972649	33	4.17E-02	0.734370935	33
-0.770198851	4	1.00E+01	-0.469507768	4
-1	6	5.25E+01	-0.608932556	6
-0.145169681	15	8.68E+00	-0.289344777	15
-0.104983422	8	2.45E+00	-0.272009546	8
0.360634746	52	5.66E-02	0.803730624	52
0.151757846	9	8.07E-01	-0.150926058	9
1	6	9.88E-03	1	6
2	6	2.51E-03	2	6
0.246953385	8	5.05E-01	-0.099094501	8
-0.693583732	13	2.12E+02	-0.132081228	13
-0.556410498	9	2.53E+01	-0.296158229	9
-0.486000366	13	5.63E+01	-0.582829662	13
0.14592206	28	1.91E+00	0.419721612	28
0.208597165	11	6.37E-01	0.843260571	11
0.006165874	6	1.22E+00	0.48067637	6
0.034423094	3	8.50E-01	0.19708931	3
0	5	1.13E+00	-0.155810671	5
0	5	1.13E+00	-0.006903996	5
0	3	9.29E-01	0	3
0	2	8.41E-01	0.070595997	2

0.025736706	22	4.79E+00	0.060051383	22
0.158540138	3	6.18E-01	0.277705594	3
1	5	2.49E-02	2	5
0.702324538	14	2.38E-02	0.710662995	14
0	4	1.03E+00	0	4
0.155514034	12	8.94E-01	-0.13105132	12
-0.250633245	4	2.15E+00	-0.841500365	4
0.047494074	38	1.42E+01	0.136977642	38
-0.03394917	18	5.49E+00	0.2151637	18
0.158850905	7	7.21E-01	-0.259743875	7
0	9	1.69E+00	0	9
0	11	2.06E+00	0	11
0	9	1.69E+00	0	9
0	11	2.06E+00	0	11
0	9	1.69E+00	0	9
0	11	2.06E+00	0	11
0	9	1.69E+00	0	9
0	11	2.06E+00	0	11
0	9	1.69E+00	0	9
-0.00011155	11	2.06E+00	-0.008733515	11
-0.569193169	9	2.70E+01	-0.890331737	9
0.398018999	20	1.37E-01	0.375742161	20
0.740014374	9	4.61E-02	0.782516047	9
0.085868963	9	1.11E+00	0.054555493	9
0.167400203	36	1.96E+00	0.123139875	36
-0.016081588	12	2.51E+00	0.035503732	12
-0.002065201	6	1.26E+00	-0.011529029	6
0.083343345	6	9.19E-01	-0.130175166	6
0.017443875	3	8.88E-01	-0.157669128	3
0.11386627	4	7.33E-01	-0.009845159	4
0.19141844	9	6.65E-01	-0.01466712	9
0.179494297	24	1.12E+00	0.667130791	24
0.501506617	7	1.77E-01	0.365507927	7
-0.00011274	4	1.03E+00	0	4
0.031103227	7	1.22E+00	-0.025349512	7
-0.188311065	3	1.51E+00	0.290291306	3
0.218720488	7	5.64E-01	-0.078300777	7
0.982095115	5	4.27E-02	0.30612401	5
0.109792498	3	7.01E-01	0.037423493	3
0.593869605	17	3.39E-02	0.910792281	17
-0.010898448	7	1.45E+00	-0.008444761	7
0.342704144	10	3.09E-01	0.445125262	10
-0.056173991	5	1.37E+00	0	5
0.338699914	8	3.35E-01	0.127286177	8
0.098735898	6	8.68E-01	-0.40966979	6
0.329114675	5	3.78E-01	-0.615431645	5
0.483572916	7	1.90E-01	0.48304087	7

-0.152784114	2	1.18E+00	-0.026105658	2
-0.088118587	6	1.74E+00	-0.129797824	6
-0.008895916	6	1.30E+00	0.014392832	6
-0.028417976	4	1.12E+00	0.068315705	4
-0.01481688	17	4.21E+00	-0.23786159	17
-0.012679966	12	2.46E+00	-0.023239663	12
0	3	9.29E-01	0	3
0	1	7.61E-01	-0.034205926	1
0.198041233	13	7.09E-01	0.161958624	13
-0.031715253	11	2.46E+00	0.040759092	11
0.144117336	14	1.05E+00	0.063607738	14
0.080621517	11	1.31E+00	0.154119858	11
0.409159747	26	8.79E-02	0.523678909	26
-0.622573457	13	1.35E+02	-0.738016146	13
-0.015193652	3	9.66E-01	0	3
0.626392767	5	1.40E-01	0.284768216	5
0.008296563	2	8.26E-01	0	2
-0.233147023	8	4.35E+00	-0.139112271	8
-0.012279763	12	2.45E+00	-0.55519285	12
0.029819315	12	1.90E+00	2	12
-0.012550816	13	2.73E+00	0.643992553	13
-0.816422362	8	5.95E+01	-1	8
-0.207514669	4	1.90E+00	-0.306708978	4
-0.023013715	9	1.89E+00	-2	9
-0.193667255	3	1.53E+00	-0.109148344	3
-1	5	1.11E+02	-1	5
-0.139430561	3	1.33E+00	-0.53889875	3
-0.321829848	9	8.09E+00	-0.089177227	9
-0.824262994	12	3.23E+02	-0.805663063	12
-0.408582925	10	1.59E+01	-0.42175067	10
-0.45495843	3	3.00E+00	0.479158864	3
-0.183508034	32	2.05E+02	0.230565336	32
0.003760014	3	9.20E-01	0.093343109	3
0.032118306	13	2.05E+00	0.123241613	13
0.128096139	26	2.14E+00	0.248161137	26
0.003729434	20	4.88E+00	-0.029324912	20
-0.006390342	12	2.37E+00	0.110623541	12
-0.090251428	3	1.17E+00	-0.019982915	3
0	1	7.61E-01	-0.034205926	1
-0.134737957	11	4.40E+00	0.009653419	11
-0.016728728	7	1.48E+00	-0.00135553	7
-0.292278277	9	7.01E+00	-0.164479518	9
0.494871936	18	6.79E-02	0.549966946	18
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
-0.062841143	10	2.60E+00	-0.206937077	10
-0.043053211	2	9.24E-01	-0.254944618	2

-0.605132029	5	8.55E+00	-0.886689518	5
-0.256984291	3	1.80E+00	-0.040948299	3
-0.871626607	6	3.21E+01	0.559894398	6
-0.839846806	17	2.91E+03	-0.966550727	17
0.362224408	24	1.62E-01	0.241545459	24
2	18	3.46E-08	3	18
0.805697587	7	5.08E-02	0.799199198	7
0.056222845	26	4.85E+00	0.165783862	26
0.168743242	10	7.70E-01	0.326028073	10
0.14831978	12	9.34E-01	0.358232221	12
0.013790968	9	1.58E+00	0.008144285	9
-0.059931799	11	2.89E+00	0.018019242	11
-0.39182879	3	2.55E+00	0.134398145	3
-0.059857183	7	1.77E+00	0.065223106	7
0.169702561	12	8.21E-01	-0.617494761	12
0.237592272	27	6.23E-01	0.534639199	27
0.002055804	84	2.77E+03	0.379132967	84
0.18658148	5	6.08E-01	-0.044764367	5
0.150528295	9	8.12E-01	0.417117562	9
0.792758944	13	1.58E-02	1	13
0.398258916	12	2.08E-01	0.974851512	12
-0.328257257	5	3.39E+00	0.604453655	5
0.088783623	9	1.10E+00	0.427204603	9
-0.110702447	16	7.82E+00	0.398042339	16
-0.011041678	48	1.02E+02	-0.075123992	48
-0.018500106	2	8.76E-01	-0.152698963	2
-0.001018615	10	1.88E+00	0.262192508	10
0.051143589	2	7.52E-01	0.006117987	2
0.000253702	2	8.41E-01	0	2
-0.261141595	9	6.02E+00	-0.194638719	9
-0.087091953	6	1.73E+00	0.336709035	6
-0.079520161	13	4.18E+00	-0.090898194	13
-0.086531676	7	1.97E+00	0.331728159	7
-0.083603154	7	1.95E+00	0.22616886	7
0	2	8.41E-01	0.328111015	2
-0.135828676	12	5.15E+00	-0.570609274	12
0.504027625	14	9.13E-02	0.647776561	14
-0.377536952	2	1.92E+00	-0.773017882	2
-0.07827232	10	2.81E+00	-0.131108294	10
0.311649193	8	3.78E-01	0.870087471	8
-0.241780873	14	1.43E+01	0.141140155	14
-0.170132139	6	2.36E+00	-0.310119611	6
0.923549142	4	6.69E-02	0.856467404	4
2	9	2.32E-05	2	9
3	5	4.74E-05	3	5
1	14	3.72E-04	2	14
0.130041471	11	9.91E-01	-0.118674849	11

0.041484551	2	7.68E-01	0.522091113	2
-0.017726141	3	9.73E-01	-0.078082637	3
0.102404765	16	1.57E+00	0.250895634	16
0.009956318	8	1.46E+00	0.021594182	8
0.263274628	12	4.68E-01	0.043757799	12
0.452773532	40	1.92E-02	1	40
0.778414691	11	2.57E-02	1	11
0	5	1.13E+00	0	5
0.010398538	4	9.96E-01	-0.063130071	4
1	17	8.15E-04	0.965932322	17
0.035678716	5	1.01E+00	-0.325712491	5
-0.042015137	21	8.30E+00	0.293078112	21
0.447320481	8	2.06E-01	-0.100163505	8
0.233622759	2	5.04E-01	0.416069706	2
1	50	1.85E-09	1	50
0.218947774	25	7.51E-01	0.288788542	25
0.899844227	88	8.87E-11	1	88
1	97	1.80E-19	2	97
1	11	3.85E-03	1	11
0.187729749	43	1.75E+00	0.277101152	43
0.089578124	6	8.98E-01	0.007327101	6
-0.018823909	8	1.66E+00	0	8
-0.013334358	4	1.07E+00	-0.009309932	4
-0.07321834	11	3.11E+00	0.346714352	11
-0.002127732	3	9.34E-01	-0.295406675	3
0	7	1.38E+00	0	7
0	3	9.29E-01	0	3
-0.181720284	12	6.79E+00	-0.003887834	12
-0.00767125	1	7.72E-01	-0.025281787	1
-0.226594619	3	1.67E+00	2	3
0.317786946	36	2.00E-01	0.294863206	36
0.059338271	31	6.88E+00	-0.106846185	31
-0.013475572	28	1.32E+01	0.080975416	28
-0.256942593	5	2.67E+00	-0.388008998	5
0.32521714	21	2.58E-01	0.564740227	21
0.460846391	10	1.66E-01	0.585776038	10
0.464062112	3	2.81E-01	-0.230202925	3
0.243786988	13	5.29E-01	0.267673134	13
1	38	2.55E-08	2	38
-0.278318169	22	9.52E+01	-0.049519097	22
-0.413479164	10	1.63E+01	-0.074156949	10
-0.030577827	14	3.42E+00	-0.381497969	14
0.236596867	5	5.15E-01	-0.367574539	5
0.175986193	2	5.72E-01	-0.000179241	2
0.157357502	5	6.71E-01	-0.012464572	5
0.062514027	9	1.25E+00	-0.283025018	9
0.035740289	4	9.24E-01	-0.22711877	4

-0.159740577	4	1.65E+00	0.120405998	4
0.003886488	21	5.38E+00	0.028106029	21
0.058229137	4	8.64E-01	-0.256284589	4
0.107527005	4	7.47E-01	0	4
0.267330046	11	4.58E-01	0.268489559	11
-0.005315853	4	1.04E+00	0.043824779	4
-0.25863517	6	3.28E+00	-0.316603481	6
0.03000728	22	4.59E+00	0.193386705	22
0.005024545	7	1.36E+00	0.012430381	7
0.127278794	1	6.05E-01	0.393374274	1
0.556298751	24	2.07E-02	0.811746574	24
-0.257684781	16	2.37E+01	-0.2762705	16
-1	5	6.86E+01	-1	5
-0.431459319	27	1.61E+03	-0.946206673	27
0.126863898	23	1.86E+00	0.104184805	23
-0.024549604	18	5.08E+00	-0.005076493	18
0.16054172	34	2.01E+00	0.24118555	34
-0.167713608	3	1.43E+00	0	3
1	15	1.55E-03	2	15
0.657608864	5	1.26E-01	2	5
0	1	7.61E-01	0	1
0.138663774	12	9.89E-01	1	12
0.23729564	7	5.23E-01	0.055637357	7
0.031168599	22	4.54E+00	-0.020884047	22
0.093409026	43	9.42E+00	0.09897611	43
0.114634139	6	8.18E-01	0.052245852	6
2	2	2.02E-02	1	2
2	7	6.25E-04	3	7
-0.013098996	12	2.46E+00	0.009475841	12
0.040466212	7	1.17E+00	0.008272587	7
0.584987889	47	8.84E-04	0.701654081	47
0.296078245	13	3.79E-01	-0.478305628	13
-0.181806328	60	2.27E+04	-0.013780844	60
0.098988071	18	1.82E+00	0.241416607	18
-1	8	2.41E+02	-1	8
-0.373006591	4	3.09E+00	0	4
-0.901050307	4	1.47E+01	0.966394391	4
-0.1803068	12	6.73E+00	-0.412989314	12
0	3	9.29E-01	0	3
-0.487491493	35	3.06E+04	-0.0647814	35
0.236885393	6	5.19E-01	0.677971478	6
-0.194856785	5	2.17E+00	1	5
0.112550284	54	1.25E+01	0.048137026	54
0.390095162	5	3.08E-01	0.271491619	5
0.076446988	4	8.19E-01	0	4
0.208178285	4	5.55E-01	0	4
0	1	7.61E-01	0	1

0	1	7.61E-01	0	1
0	1	7.61E-01	-0.038608368	1
0.00499308	10	1.82E+00	-0.077826776	10
-0.09368361	11	3.49E+00	0	11
-0.022261433	1	7.93E-01	0	1
-0.355843455	5	3.72E+00	-0.368841488	5
-0.569577366	3	4.03E+00	-0.809767806	3
0.223616317	10	5.77E-01	0.052872971	10
0.151602343	2	6.03E-01	0	2
0.262074386	7	4.72E-01	-0.142002231	7
-0.215383575	4	1.94E+00	0.127622847	4
0.114836635	2	6.54E-01	0.115575089	2
0.080122899	10	1.23E+00	0.547034631	10
-0.133566245	3	1.31E+00	0.035605302	3
1	5	1.25E-02	2	5
0.452711437	2	3.12E-01	0.176860989	2
0.104610975	13	1.29E+00	0.122839829	13
0.455016172	39	1.99E-02	0.52484891	39
0.244558723	14	5.30E-01	0.16867433	14
-0.308637493	4	2.56E+00	-0.25664228	4
-0.11518651	7	2.22E+00	0	7
0.008934456	18	3.84E+00	0.06019362	18
0.019214921	27	8.10E+00	0.159630833	27
0.16191472	5	6.61E-01	-0.132362176	5
-0.007787616	3	9.48E-01	-0.023722031	3
-0.494701174	4	4.43E+00	0.104894047	4
-0.005302814	5	1.15E+00	0.008721098	5
0.014963477	2	8.14E-01	-0.012673187	2
0.075023029	7	1.02E+00	-0.065328891	7
-0.084073961	9	2.54E+00	0.251366789	9
-0.034184766	8	1.78E+00	-0.028632379	8
-0.424688128	5	4.68E+00	0	5
-0.059372113	4	1.22E+00	-0.006137298	4
-0.200941051	4	1.86E+00	-0.239194837	4
0.203441563	10	6.42E-01	0.226634394	10
0.026279563	20	3.98E+00	0.028181042	20
-0.02209165	1	7.93E-01	0.034185377	1
-0.233561452	13	1.12E+01	0.164304697	13
-0.090161153	3	1.17E+00	0.016491343	3
0.02003663	3	8.83E-01	-0.033702044	3
0.187779581	3	5.73E-01	-0.144858632	3
0.822986974	4	9.01E-02	0.482580739	4
0.369874129	10	2.68E-01	0.409029302	10
0.019122659	8	1.40E+00	0.211957672	8
0.007182035	14	2.65E+00	-0.005552268	14
-0.51910665	12	5.16E+01	0.030393697	12
0.030454474	13	2.07E+00	-0.458793469	13

-0.188593468	2	1.27E+00	-0.073447347	2
-0.158901492	5	1.93E+00	-0.793423179	5
0.106151393	5	7.96E-01	-2	5
-1	22	3.02E+05	-0.970931476	22
0.396782068	6	2.86E-01	-1	6
0.567142177	4	1.92E-01	0.070663285	4
0.705642461	8	6.46E-02	0.61102471	8
0.783036939	4	1.01E-01	0.988915527	4
0.021571504	5	1.06E+00	0.086187736	5
0.245340279	4	4.97E-01	0.111790014	4
1	6	6.02E-03	2	6
0.191930597	28	1.09E+00	0.225799947	28
0.10007502	34	4.81E+00	-0.01271321	34
0.059503352	9	1.26E+00	0.041923936	9
0.986386746	5	4.21E-02	2	5
2	5	4.96E-03	2	5
0.201266134	5	5.79E-01	0.349378089	5
-0.679069315	12	1.35E+02	-0.294481279	12
-0.361220636	7	6.09E+00	-1	7
-0.407285838	15	5.67E+01	-0.831302913	15
-0.278778843	9	6.56E+00	0.786715448	9
-0.178973969	3	1.47E+00	0.859302306	3
0.187681548	17	8.47E-01	0.395654967	17
-0.057610627	6	1.55E+00	-0.144962751	6
0.444630395	36	2.91E-02	0.876673146	36
0.286811389	8	4.23E-01	0.589924503	8
2	30	3.93E-08	2	30
0.165395454	1	5.64E-01	0.320932951	1
0.020935729	8	1.39E+00	0.160410023	8
0.221351064	12	6.02E-01	0.895632485	12
1	7	1.26E-02	1	7
-0.023140596	3	9.86E-01	0.009399511	3
0.13202089	15	1.19E+00	0.166543032	15
1	90	3.94E-19	2	90
-0.089441396	18	8.70E+00	-0.028672759	18
-0.310231993	9	7.64E+00	0.294564206	9
-0.103200193	2	1.05E+00	-0.083378046	2
-0.070911669	3	1.12E+00	-0.027212194	3
-0.32754657	14	2.56E+01	-0.559490795	14
-0.270128354	8	5.13E+00	-1	8
0.315818763	26	2.54E-01	0.758935614	26
0.521966378	70	3.02E-04	0.730867042	70
-0.00118824	3	9.32E-01	0	3
-0.390322869	11	1.86E+01	-0.215238361	11
0.131334043	9	8.92E-01	0.31853366	9
-0.125922055	8	2.69E+00	-0.111104864	8
0.07387035	18	2.24E+00	0.302547512	18

-0.000353711	1	7.62E-01	0	1
-0.367529717	9	1.01E+01	-0.60848908	9
0.110675904	15	1.39E+00	0.639412857	15
0.365829955	72	2.27E-02	0.626660413	72
1	12	1.06E-03	2	12
0.476079041	17	8.62E-02	0.978090413	17
-0.067639084	6	1.61E+00	0.24279717	6
-0.477072112	7	9.80E+00	0.524755908	7
-0.066553813	12	3.40E+00	0.002566216	12
-0.316195814	30	8.06E+02	0.123745964	30
-0.071191255	6	1.63E+00	0.004833807	6
1	12	3.47E-03	1	12
-0.315428181	8	6.29E+00	0.464317251	8
-0.232038422	3	1.69E+00	-0.145917879	3
-0.806718867	4	1.11E+01	0.027162927	4
-0.965054586	4	1.78E+01	0.813726054	4
0	1	7.61E-01	1	1
0	4	1.03E+00	-0.706823061	4
0.263690668	11	4.67E-01	0.193107667	11
-1.78E-05	3	9.29E-01	-0.328035415	3
0.550583587	8	1.29E-01	0.613934313	8
3	13	3.47E-08	2	13
0.378126719	1	3.84E-01	-8.54E-05	1
0.224301334	29	7.49E-01	1	29
-0.000170142	3	9.30E-01	-6.24E-05	3
-0.140977056	6	2.12E+00	-0.154059249	6
0.069768	5	8.99E-01	0.408361763	5
0.026319139	11	1.78E+00	0.003193657	11
0.161469295	8	7.41E-01	0.686630376	8
-0.00206872	3	9.34E-01	1	3
1	5	1.97E-02	1	5
-0.651600327	7	2.00E+01	-0.31353215	7
-0.68733909	2	3.80E+00	-0.00062212	2
0.284180601	4	4.43E-01	1	4
0.694561101	10	4.87E-02	1	10
0.065109386	9	1.23E+00	0.110415348	9
0.046885847	8	1.24E+00	0.323016725	8
-0.290503449	6	3.69E+00	-0.386656333	6
-0.092487808	2	1.03E+00	-0.154254305	2
-0.0942751	2	1.03E+00	0.092804052	2
-0.457544634	1	1.74E+00	0	1
-0.176737797	4	1.73E+00	-0.156806211	4
0.18114654	8	6.79E-01	-0.893187395	8
-1	8	3.20E+02	-0.213014144	8
-1	3	2.06E+01	-0.320347811	3
-1	14	2.23E+04	-1	14
-0.293813849	5	3.02E+00	-0.595540928	5

-0.617989481	6	1.25E+01	-0.109369029	6
-0.821744912	8	6.09E+01	0.0588255	8
0.274131854	8	4.47E-01	0.645582464	8
0.15028872	5	6.87E-01	-0.235585407	5
-0.197939423	6	2.62E+00	-0.453806159	6
0.079533099	7	9.99E-01	-0.899061361	7
-0.238098726	2	1.42E+00	0	2
-0.174591616	3	1.46E+00	0	3
-0.990394029	4	1.92E+01	-0.304935528	4
-0.13968416	4	1.55E+00	-0.468020779	4
-0.192308984	4	1.81E+00	-0.047972088	4
-0.565742606	4	5.47E+00	-0.228819606	4
-0.018596006	18	4.83E+00	-0.09377774	18
0.218611624	5	5.47E-01	0.431729526	5
0.392939865	7	2.76E-01	0.652098042	7
-0.067105813	5	1.42E+00	0.206579338	5
1	22	2.33E-04	1	22
0.546696361	8	1.32E-01	0.619699891	8
0.013711269	12	2.10E+00	-0.395342683	12
-0.133270305	12	5.08E+00	-0.110822047	12
0.616531457	7	1.10E-01	0.340342041	7
0.955957283	22	5.10E-04	1	22
0.20518941	8	6.09E-01	0.399024399	8
-0.065887921	12	3.38E+00	-0.04045746	12
-0.599488921	4	6.04E+00	0.254724432	4
-0.269241111	6	3.41E+00	0.000344136	6
0.395832761	5	3.03E-01	-0.000388489	5
-0.271320205	35	1.25E+03	0.346949745	35
-0.062589652	8	2.02E+00	0.071948584	8
-0.342238496	2	1.78E+00	0	2
-1	2	8.46E+00	0.616966444	2
-0.32002436	13	1.95E+01	-0.477249383	13
-0.2689248	10	7.65E+00	0.051550039	10
2	16	2.24E-05	2	16
0.881178422	31	1.26E-04	0.664120371	31
1	21	3.37E-04	0.771054101	21
0.309213314	3	4.19E-01	0.241177993	3
1	12	1.57E-03	1	12
0.015792387	1	7.40E-01	-3.83E-05	1
0.268877852	6	4.61E-01	0.545754062	6
0.889995171	33	6.93E-05	1	33
0.055625318	10	1.39E+00	-0.111284208	10
0.096029125	15	1.54E+00	0.26916069	15
-0.063201898	6	1.59E+00	-0.152799787	6
-0.432772656	4	3.69E+00	0	4
-0.092515806	6	1.77E+00	0	6
0	1	7.61E-01	0	1

0.27435505	10	4.42E-01	0.106281242	10
0.047571909	10	1.45E+00	-0.106111888	10
0.023627658	9	1.51E+00	0.326178966	9
-0.147327047	10	4.04E+00	0.392222364	10
0.047604932	26	5.35E+00	-0.018113542	26
0.543381865	18	4.54E-02	0.727852533	18
1	13	1.11E-03	1	13
1	17	2.04E-04	1	17
-0.020421286	13	2.87E+00	0.557156877	13
-0.477491457	14	7.07E+01	-0.627363009	14
-0.444394951	9	1.47E+01	-0.500121713	9
0.327026628	8	3.53E-01	0.630749465	8
0.066275307	23	3.46E+00	0.089822887	23
0.551248352	6	1.61E-01	1	6
1	25	3.71E-05	1	25
0.448861588	4	2.72E-01	0.411476084	4
0.544208075	4	2.05E-01	-0.170894626	4
0.435150522	10	1.90E-01	0.365777745	10
0.676791727	2	1.91E-01	0.714736009	2
0.151901335	23	1.44E+00	0.159980064	23
0.183243235	15	8.27E-01	-0.049633804	15
0.258047226	13	4.83E-01	-0.077219403	13
0.016764674	4	9.77E-01	-0.000170446	4
2	14	2.03E-05	1	14
-0.51223111	16	1.61E+02	-0.922982574	16
-0.089411742	13	4.46E+00	0.349044984	13
3	15	2.15E-09	4	15
0.44518259	11	1.68E-01	-0.079824156	11
-0.945664534	12	6.71E+02	-0.435691075	12
-0.042447765	6	1.47E+00	0	6
-0.232474794	5	2.46E+00	-0.442708809	5
-0.715109105	15	5.14E+02	-0.90782488	15
-1	1	7.11E+00	-0.699391135	1
-0.89650351	1	3.86E+00	-2	1
-0.665071587	3	5.15E+00	-0.298752119	3
-0.004146967	6	1.27E+00	-1.45E-05	6
-0.53476397	2	2.72E+00	-0.375461396	2
-0.879475347	1	3.74E+00	-1	1
-0.954208777	3	1.08E+01	0	3
-0.437505815	3	2.87E+00	-0.184346749	3
-0.240823705	2	1.43E+00	-0.369144718	2
-0.015301926	1	7.83E-01	-0.025487279	1
0	3	9.29E-01	0	3
0	1	7.61E-01	0	1
0.140134979	3	6.48E-01	0.248606011	3
-0.606050005	3	4.42E+00	0.364478777	3
0.682196903	4	1.37E-01	-0.324643954	4

0.029970472	1	7.21E-01	-0.051991865	1
0.144792767	5	6.99E-01	0.801535697	5
-0.511149117	12	4.92E+01	0.318766059	12
-0.144329131	9	3.41E+00	-0.017480596	9
-0.649523403	18	9.11E+02	-0.356917943	18
-0.171333078	9	3.89E+00	0	9
-0.348157258	3	2.28E+00	-0.123549318	3
-0.033676863	2	9.06E-01	-0.062483392	2
-0.326011778	10	1.03E+01	-0.458461755	10
-0.711578946	8	3.72E+01	-0.126991953	8
-0.278259996	7	4.33E+00	-0.029335363	7
-1	5	3.86E+01	-1	5
-0.112872815	5	1.65E+00	0.021586665	5
-0.641439819	12	1.08E+02	-0.596019051	12
-0.608452557	7	1.68E+01	0.055467591	7
-1	9	8.28E+02	-0.607294812	9
-0.394760975	5	4.24E+00	0.00351026	5
-0.068828184	4	1.26E+00	0	4
0.188661335	103	8.97E+00	0.51614184	103
0.158696898	4	6.42E-01	-0.286280529	4
0.008208048	4	1.00E+00	-0.216196586	4
-0.018757254	2	8.76E-01	-0.660070192	2
0.046534866	1	7.00E-01	-0.000112237	1
0.348093388	5	3.55E-01	0.298348685	5
2	77	6.00E-20	2	77
-0.408458462	13	3.43E+01	-0.317967702	13
0.19676016	11	6.81E-01	0.645634695	11
0.581243533	16	4.24E-02	0.806253963	16
0.383684966	3	3.46E-01	-0.000159929	3
-0.719046314	4	8.60E+00	-0.769431922	4
-0.54903198	7	1.32E+01	-0.566254627	7
-1	2	1.77E+01	-1	2
-0.019801884	33	2.44E+01	0.281641651	33
-0.004792918	2	8.50E-01	0.073036716	2
-0.545147518	4	5.14E+00	-0.778422871	4
-0.373203265	2	1.91E+00	-0.199695962	2
-0.313104058	4	2.59E+00	-0.109909075	4
-2	4	2.10E+02	-1	4
0.788682404	3	1.22E-01	0.963737326	3
0.067158935	17	2.20E+00	0.146313138	17
0.119758596	5	7.60E-01	0.242503385	5
-0.345150761	3	2.26E+00	-0.154430341	3
0.15640241	5	6.73E-01	-0.022552176	5
-0.457544634	2	2.29E+00	-1	2
-0.728269093	3	6.06E+00	-0.478569778	3
-0.629049113	5	9.26E+00	-0.92011452	5
-1	12	1.01E+03	-1	12

-0.691885364	5	1.14E+01	-0.715455791	5
-0.622688698	8	2.50E+01	-0.029580085	8
-0.470918202	7	9.55E+00	-0.428148257	7
-0.169156528	1	1.03E+00	-0.073114059	1
-0.597763547	3	4.33E+00	-0.046542655	3
-0.919081907	5	2.44E+01	0.568167397	5
-1	5	4.93E+01	-0.149400304	5
0.157214665	3	6.20E-01	-1	3
-0.140111963	6	2.11E+00	-0.606248269	6
-0.777452629	7	3.36E+01	-0.703441764	7
-0.279323905	6	3.54E+00	-0.340778526	6
-0.862914053	2	5.58E+00	-0.161490221	2
-0.711897647	9	5.40E+01	-0.674779321	9
-0.635127211	22	3.18E+03	-0.881535987	22
-1	16	3.58E+04	-2	16
-0.363320207	4	3.01E+00	-0.18806533	4
0	3	9.29E-01	-0.063469531	3
-0.079166333	5	1.48E+00	0.029375722	5
-0.269489053	6	3.41E+00	0.364412387	6
0.073846845	2	7.15E-01	0.401562408	2
-1	3	1.81E+01	-0.788523183	3
-0.335740013	3	2.21E+00	-0.754312697	3
0.02962744	2	7.88E-01	-0.025110791	2
-0.341168161	14	2.81E+01	0.439180676	14
1	43	2.98E-07	2	43
-0.510945743	6	8.38E+00	-0.589102081	6
-0.362903985	10	1.25E+01	-0.679441826	10
-0.932321628	4	1.62E+01	-0.312159165	4
-0.1500408	8	3.00E+00	0.125969055	8
0.713618204	7	7.41E-02	0.34634195	7
0.246064146	7	5.04E-01	2	7
-0.85284301	5	1.95E+01	0.074125908	5
0.904434205	44	3.78E-06	1	44
-0.119821588	6	1.96E+00	0.60831804	6
-0.020561158	1	7.90E-01	-0.067619586	1
-0.282312613	3	1.92E+00	-0.790212122	3
-0.02426827	1	7.96E-01	0	1
-0.134998484	3	1.32E+00	0.098533342	3
-0.870998933	3	8.75E+00	-0.66454164	3
-0.021436937	7	1.51E+00	0.103068856	7
0.330644263	21	2.45E-01	0.56999119	21
0.012148691	5	1.09E+00	-0.094778871	5
-0.186252142	2	1.27E+00	-0.173377329	2
-0.418956088	3	2.73E+00	0.336397431	3
-1	1	4.88E+00	-2	1
-0.618442302	4	6.39E+00	2	4
-0.047456707	16	4.85E+00	0.446227436	16

-0.021031095	2	8.81E-01	0.034189875	2
-0.148558562	10	4.07E+00	0.399759883	10
-0.335263488	35	3.22E+03	-0.215278084	35
-0.052259905	18	6.39E+00	-0.07389749	18
0.079364542	18	2.14E+00	-0.018035916	18
-0.49249516	14	7.82E+01	-0.633738791	14
-0.571044581	22	1.69E+03	-0.23200612	22
0.006454225	10	1.80E+00	-0.258736995	10
-0.008293103	10	1.95E+00	-0.122588782	10
-0.153169413	12	5.72E+00	-0.044211452	12
0.152473028	7	7.41E-01	0.391026278	7
-0.464101093	3	3.07E+00	-0.415180995	3
0.300836832	120	7.13E-02	0.42632168	120
2	11	3.67E-04	2	11
4	8	2.21E-07	3	8
0.091245564	18	1.94E+00	-1	18
0.633531537	60	5.42E-05	0.89832156	60
-0.032189573	1	8.07E-01	-7.51E-05	1
1	2	3.19E-02	3	2
-0.224713306	13	1.06E+01	-0.430298661	13
-0.535986867	9	2.29E+01	-1	9
-0.920923173	12	5.78E+02	-0.931848115	12
-1	6	5.98E+01	-0.739702628	6
-0.46114936	8	1.21E+01	-0.649707195	8
-1	6	1.95E+02	-1	6
-2	4	4.30E+02	-2	4
0.213872178	17	6.88E-01	0.114702062	17
-0.020695653	5	1.22E+00	0.211795402	5
0.130269539	4	6.98E-01	-0.198861193	4
0.151033036	25	1.58E+00	0.494146388	25
-0.160845343	2	1.20E+00	-0.320587382	2
-0.804388551	1	3.27E+00	-0.699391135	1
-0.292923055	7	4.60E+00	0.186014588	7
-0.128499774	8	2.72E+00	0.247910795	8
0.809668258	23	1.74E-03	0.989982818	23
0.789997901	3	1.22E-01	0.331912699	3
0.15316553	4	6.53E-01	0.004602215	4
0.076772945	4	8.18E-01	0.220900995	4
0.291009016	35	3.03E-01	0.548864397	35
0.147849402	6	7.23E-01	0.233895207	6
0.291022465	9	4.10E-01	0.745488661	9
0.934344499	2	1.08E-01	1	2
2	9	1.35E-05	2	9
0.918070677	7	3.20E-02	1	7
-0.269506644	11	9.40E+00	-0.09469704	11
0.331239399	5	3.75E-01	-0.701310948	5
-0.169350972	4	1.69E+00	-0.151882952	4

0.786918991	17	7.35E-03	2	17
0.470683965	10	1.58E-01	-0.14881266	10
0.009125931	11	1.96E+00	0.496279248	11
0.71761722	8	6.12E-02	1	8
-0.071507376	6	1.63E+00	1	6
0.587923748	52	4.47E-04	0.779252113	52
-0.024472437	4	1.10E+00	-0.05622247	4
-2	19	2.57E+06	-0.905792834	19
-0.456503671	19	2.41E+02	-0.213340799	19
1	9	3.22E-03	1	9
0.344969307	6	3.47E-01	0.77358833	6
0.437697786	60	6.38E-03	0.470436439	60
-0.013358258	5	1.19E+00	0.814943494	5
-0.255938975	5	2.67E+00	0.40586361	5
0.760987692	15	1.32E-02	1	15
-0.245948611	4	2.12E+00	0.739400928	4
1	5	7.83E-03	2	5
1	6	1.27E-02	3	6
0.365762554	8	2.97E-01	1	8
0.209930727	7	5.85E-01	0.303571788	7
-0.120479187	2	1.10E+00	0.326174718	2
-0.072407998	1	8.68E-01	0.175519421	1
0.982880583	21	5.16E-04	2	21
-0.154025912	9	3.57E+00	-0.604875516	9
0.049004229	8	1.23E+00	0.033893941	8
1	21	1.11E-04	2	21
-0.769543188	11	1.57E+02	-0.288508174	11
-0.036716049	10	2.26E+00	-0.450298643	10
2	40	4.50E-12	2	40
0.996152044	18	1.06E-03	0.975742105	18
1	11	1.06E-03	1	11
1	12	2.57E-03	0.960020027	12
-0.916920797	5	2.42E+01	-1	5
-1	7	1.13E+02	-2	7
-0.100915332	16	7.26E+00	0.792102386	16
1	10	9.52E-03	1	10
1	6	1.30E-02	0.603810985	6
2	6	4.94E-04	3	6
2	5	4.25E-04	3	5
0.733374168	6	8.19E-02	0.874639692	6
-2	4	1.37E+02	-0.558866716	4
-0.497925176	8	1.43E+01	-0.193944998	8
0.343430849	3	3.84E-01	-0.217730423	3
0.194390727	3	5.63E-01	0.35370848	3
-0.315986738	8	6.31E+00	-0.678897495	8
-1	11	2.54E+03	-2	11
-1	2	1.20E+01	-2	2

0.104814945	10	1.08E+00	0.741288059	10
-0.362610659	8	7.77E+00	-0.574672249	8
-0.518912657	7	1.16E+01	-0.569397715	7
-0.079243401	13	4.18E+00	-0.113186866	13
0.664311999	12	4.20E-02	0.211423771	12
-0.584095074	12	7.63E+01	-0.584914032	12
0.118351667	36	4.12E+00	1	36
-0.331007612	9	8.46E+00	0.338351623	9
0.518396761	14	8.29E-02	0.509819728	14
0.348157838	3	3.79E-01	2	3
0.866243095	8	3.14E-02	1	8
0.120732526	6	8.00E-01	1	6
0.895223949	6	4.48E-02	0.682366569	6
-0.230638285	8	4.30E+00	0.756196809	8
-0.073609789	6	1.65E+00	0.619547618	6
0.751220503	8	5.27E-02	0.974180552	8
-0.318171985	3	2.11E+00	0.131739084	3
0.291422933	38	2.91E-01	0.731471965	38
0	6	1.25E+00	-0.123911082	6
-0.464631054	5	5.35E+00	-0.032460223	5
-0.09533389	3	1.19E+00	-0.532770861	3
-0.110498627	6	1.89E+00	-0.142313473	6
-0.328863727	10	1.05E+01	-0.000182796	10
-0.349929169	8	7.34E+00	-0.435731421	8
-0.102453962	5	1.60E+00	0.121828065	5
-0.282054494	8	5.42E+00	-0.268101071	8
0.285325706	7	4.29E-01	-0.185696463	7
0	1	7.61E-01	0	1
0	3	9.29E-01	0	3
-0.442687475	10	1.91E+01	-0.521206413	10
-0.249635604	4	2.15E+00	0	4
-0.461880097	8	1.21E+01	-0.468937383	8
-0.547540026	7	1.31E+01	0.019481831	7
0.091758527	3	7.34E-01	-0.414667587	3
0.016733925	3	8.90E-01	0.449102376	3
-0.142111942	2	1.15E+00	-0.198881918	2
0.016953721	4	9.76E-01	-0.406842899	4
-0.198457513	10	5.29E+00	-0.419355861	10
-0.354214296	5	3.70E+00	0	5
0.40297743	7	2.65E-01	-0.520904101	7
-0.146030452	5	1.85E+00	-0.422444859	5
0.283376365	11	4.18E-01	0.232520666	11
0.089639231	11	1.24E+00	-0.096512078	11
-0.340556636	7	5.60E+00	-0.309123303	7
0.034731756	6	1.10E+00	0.250730198	6
-0.055470594	8	1.96E+00	-0.060922328	8
-0.490264251	7	1.03E+01	-0.612390072	7

-0.061324787	2	9.62E-01	-4.43E-05	2
-0.523840805	3	3.58E+00	0.209086248	3
0	3	9.29E-01	0	3
-0.007770659	2	8.56E-01	0	2
-0.805175509	6	2.51E+01	-0.671165425	6
-0.332485318	3	2.19E+00	-0.138304293	3
-0.410083273	5	4.46E+00	-0.086437379	5
-0.549520618	8	1.80E+01	-0.024054068	8
-0.139259789	2	1.14E+00	-0.013785259	2
-0.774428776	8	4.93E+01	0.89287824	8
-0.101705224	3	1.21E+00	-0.012785485	3
0.01493522	3	8.94E-01	0.017579148	3
-0.196101636	2	1.29E+00	0	2
0.178803975	3	5.86E-01	-0.033978001	3
-0.227887519	7	3.53E+00	-0.553924467	7
-0.134047392	6	2.06E+00	0.176677934	6
-0.423564116	10	1.72E+01	-0.228122882	10
-0.541148821	9	2.35E+01	-0.727190954	9
-0.357682018	6	4.74E+00	-0.454949619	6
-0.485615573	10	2.39E+01	-1	10
0.863800646	7	4.00E-02	0.502269429	7
0.359743268	9	2.93E-01	0.37727625	9
-1	4	3.02E+01	-1	4
-0.889804898	20	1.62E+04	-0.684535949	20
-1	4	3.16E+01	0.119107447	4
-2	4	5.07E+02	-1	4
-0.551171806	8	1.81E+01	-0.322646845	8
0	15	3.07E+00	0	15
0	6	1.25E+00	0	6
-0.437102007	10	1.85E+01	-0.324450404	10
1	11	1.03E-03	2	11
2	14	1.53E-06	2	14
-0.091732817	3	1.18E+00	-0.109228986	3
0.532944103	9	1.26E-01	2	9
0.52147134	13	8.96E-02	0.585776256	13
0.258100731	5	4.79E-01	-0.707612336	5
-0.146891999	19	1.64E+01	0.249816003	19
0.368814506	57	3.87E-02	0.548379598	57
0.098065542	7	9.26E-01	0.739633095	7
0.985183062	2	9.71E-02	-0.244189702	2
0.680678919	2	1.89E-01	0.688366437	2
-0.533450279	3	3.67E+00	0.002091279	3
-2	4	1.32E+02	-2	4
-0.965872355	5	2.85E+01	-1	5
-0.511348008	6	8.40E+00	-0.518031233	6
-1	8	4.58E+02	-2	8
0.330867595	46	1.25E-01	0.933194238	46

-0.022003302	5	1.22E+00	1	5
1	14	1.54E-03	1	14
0.94029505	3	8.26E-02	0.946356395	3
0.820778223	27	6.61E-04	1	27
0.881425761	6	4.72E-02	0.787648535	6
0.143695334	9	8.39E-01	1	9
0	2	8.41E-01	0.045974798	2
-0.121049262	6	1.97E+00	0	6
-0.203268972	13	9.23E+00	-0.357874847	13
-0.005240366	4	1.04E+00	-0.400105464	4
0.005693601	2	8.31E-01	-0.675707918	2
0.429587935	13	1.61E-01	0.005162474	13
0.272002089	5	4.57E-01	-0.210723908	5
0.173966681	7	6.78E-01	0.059694405	7
0	1	7.61E-01	0	1
0	1	7.61E-01	0	1
0	4	1.03E+00	0	4
-0.000661814	14	2.79E+00	0	14
0	9	1.69E+00	0	9
0	4	1.03E+00	0	4
-0.356521183	10	1.21E+01	-0.747425001	10
0	15	3.07E+00	0	15
-0.725526856	9	5.77E+01	-1	9
-2	4	1.76E+02	-0.718835291	4
-0.125279172	2	1.11E+00	-0.360727948	2
-0.541672016	33	3.70E+04	-0.376728273	33
-0.842126738	4	1.24E+01	-0.542043392	4
-0.244881831	7	3.78E+00	-0.208055858	7
-1	9	3.47E+02	-0.683865322	9
1	9	7.31E-03	2	9
-0.555990691	3	3.89E+00	-0.31662305	3
-0.312270119	5	3.22E+00	-0.005780271	5
-2	4	1.07E+02	0.295145349	4
-0.026672794	1	7.99E-01	0	1
-0.6393314	9	3.79E+01	-0.940969284	9
-0.689035972	8	3.36E+01	0.388851846	8
0	2	8.41E-01	0	2
-0.225995165	3	1.66E+00	-0.0649984	3
-0.923382721	4	1.57E+01	-0.437918385	4
-1	12	1.45E+03	-0.160875149	12
0.193577564	4	5.79E-01	0.422454338	4
-0.015014513	11	2.24E+00	0.190265306	11
0	5	1.13E+00	-0.146443659	5
0.796252846	8	4.30E-02	0.713907046	8
0.076804185	11	1.34E+00	-0.160999354	11
0.665894087	17	1.92E-02	0.46098964	17
-0.816685991	5	1.73E+01	0.009169002	5

-0.023349267	10	2.11E+00	0.218010122	10
0.363063908	31	1.22E-01	-0.062618025	31
0.863445445	8	3.18E-02	0.840970008	8
-0.525453255	8	1.61E+01	0.445386811	8
0.714913947	13	2.60E-02	1	13
1	17	1.10E-04	2	17
0.758628223	8	5.09E-02	1	8
-0.909190286	6	3.69E+01	-0.684653198	6
-0.140025875	2	1.14E+00	-0.410206902	2
-0.146760409	3	1.36E+00	0	3
1	4	5.07E-02	0.688186543	4
-1	9	6.13E+02	-1	9
-0.334600859	6	4.35E+00	-0.316079976	6
-0.089628966	6	1.75E+00	1	6
-0.050820331	13	3.48E+00	0.719542814	13
-0.169544382	3	1.44E+00	-0.141563533	3
-0.046075286	1	8.28E-01	-0.000102979	1
0.076269757	6	9.43E-01	0.42760201	6
-1	6	5.25E+01	-0.914934899	6
-0.084468352	7	1.96E+00	-0.102760079	7
-0.20814755	5	2.27E+00	-0.397367614	5
0.166396554	8	7.25E-01	-0.054977363	8
-0.598777723	9	3.11E+01	-0.303406518	9
0.049498528	36	1.17E+01	0.19893727	36
-0.069093079	3	1.11E+00	-0.144330695	3
-0.632399775	3	4.73E+00	0	3
-0.852616698	12	3.84E+02	-0.804345875	12
-0.942302693	19	1.64E+04	-0.795896825	19
-1	18	1.76E+04	-0.046585354	18
-0.760593715	5	1.44E+01	-0.267095045	5
0.419590199	5	2.79E-01	0.158995817	5
-0.548749025	3	3.82E+00	0.061822837	3
-0.732294888	14	3.97E+02	-0.090930839	14
-0.27525016	8	5.25E+00	0.087698948	8
-0.025158813	2	8.89E-01	0	2
0.530489054	3	2.37E-01	0.52395356	3
0.092521801	61	3.04E+01	0.208071943	61
0.123038258	15	1.27E+00	0.891305861	15
0.729726047	18	9.66E-03	1	18
0.35084542	16	2.41E-01	0.549046378	16
0.792702812	24	1.69E-03	0.853460096	24
0.661884418	18	1.70E-02	0.717822361	18
-0.106029176	26	3.06E+01	0.08332716	26
0.740610116	67	1.11E-06	1	67
0.020991975	3	8.80E-01	0.222524923	3
-0.157511476	6	2.25E+00	-0.119726729	6
-0.273212294	2	1.53E+00	-0.236257892	2

-0.92364888	11	3.74E+02	-0.464767936	11
-0.246791719	3	1.75E+00	-0.05266316	3
-0.74712969	6	2.02E+01	-1	6
-0.490014494	5	5.82E+00	-0.61883932	5
-0.273773968	7	4.26E+00	0.009374865	7
-0.357009751	3	2.33E+00	0.947566308	3
1	4	4.41E-02	0.69720153	4
2	42	3.01E-14	2	42
2	3	5.56E-03	2	3
0.970569246	17	1.71E-03	2	17
0.186810792	5	6.08E-01	0.167438228	5
-0.574286466	7	1.46E+01	-0.39677572	7
-1	13	3.30E+04	-0.764428282	13
-0.124229958	7	2.30E+00	-0.014363296	7
-0.957678719	7	7.04E+01	-2	7
-0.908810017	17	5.02E+03	-0.634578148	17
-0.078187907	10	2.81E+00	-0.16721958	10
0.030358726	28	7.76E+00	0.617893411	28
0.411060758	1	3.62E-01	0.403435456	1
-0.552647188	13	8.62E+01	-0.484671536	13
0.391578265	18	1.60E-01	0.958887559	18
0.731845838	10	4.01E-02	1	10
0.190986799	8	6.49E-01	0.950682277	8
-0.966183319	6	4.56E+01	-0.719939142	6
-0.009536681	7	1.44E+00	-0.285139906	7
1	35	6.13E-08	2	35
-0.065960491	3	1.10E+00	-0.140946042	3
-0.308907863	7	4.92E+00	0.356539731	7
-0.823636419	8	6.14E+01	-0.24559055	8
0.547274812	6	1.64E-01	0.510615936	6
-0.928886364	14	1.51E+03	-0.515937647	14
0.401297472	22	1.19E-01	0.817898206	22
0.554085243	15	5.82E-02	0.59699687	15
1	13	7.90E-04	2	13
1	13	2.05E-04	2	13
-0.106459851	28	4.08E+01	-0.105105936	28
0.253277015	6	4.88E-01	-1	6
-0.200205293	6	2.64E+00	-0.831242334	6
-0.768276677	9	7.10E+01	-0.646055839	9
-0.114039956	3	1.25E+00	-0.308607623	3
-0.283436517	5	2.92E+00	-0.261092395	5
0	3	9.29E-01	-0.339858467	3
-0.310791948	6	3.98E+00	-0.309720523	6
-0.479832291	20	3.92E+02	-0.289900898	20
-0.656494634	4	7.15E+00	-0.133986754	4
-0.749391269	4	9.41E+00	-0.124345723	4
0.017801369	17	3.25E+00	-0.159813046	17

1	13	1.52E-03	0.955076853	13
-0.460230506	8	1.20E+01	-0.558948417	8
0.849087945	8	3.39E-02	1	8
-0.184632607	15	1.15E+01	-0.356859446	15
0.037445959	9	1.41E+00	1	9
1	13	1.31E-03	2	13
1	8	2.53E-03	2	8
1	3	2.57E-02	1	3
2	5	4.46E-04	3	5
2	167	1.77E-53	3	167
-0.036366893	3	1.02E+00	-4.32E-05	3
-0.490145947	7	1.03E+01	-0.19089917	7
0.397973416	5	3.00E-01	0.648937212	5
0.018549242	31	1.18E+01	0.182280885	31
0.40218794	59	1.60E-02	0.340114914	59
-1	5	4.74E+01	-2	5
-0.210124586	10	5.62E+00	-0.30602415	10
-0.302958566	11	1.14E+01	-0.096943311	11
-0.441623962	2	2.21E+00	-0.863823073	2
0.258064177	2	4.78E-01	-0.411778203	2
-0.066170891	37	7.69E+01	0.498489311	37
-0.000285787	2	8.42E-01	0.101888128	2
-0.208646072	17	1.96E+01	-0.122615279	17
2	21	2.99E-07	2	21
-0.189251313	9	4.24E+00	0.311587984	9
0.512267234	8	1.54E-01	1	8
0.570887752	9	1.05E-01	2	9
0.036250736	58	9.46E+01	0.162071133	58
-0.479349127	12	4.07E+01	0.013450263	12
0.009223798	7	1.33E+00	0.166268623	7
-0.000792693	2	8.43E-01	-0.001263432	2
-0.258236762	12	1.08E+01	0.213132295	12
0.589079918	12	6.60E-02	1	12
0.161338765	9	7.70E-01	0.635976157	9
-0.010847549	3	9.56E-01	-0.05974627	3
-0.263940415	6	3.34E+00	-0.289104897	6
-0.184920787	5	2.10E+00	0.19252013	5
0.235705209	10	5.42E-01	0.718797205	10
0.017992844	3	8.87E-01	0.015243061	3
0	5	1.13E+00	0	5
-0.54146988	7	1.28E+01	0.073833927	7
-0.22117284	4	1.97E+00	-0.190598628	4
-0.917500592	5	2.43E+01	-0.044644228	5
-0.849551887	6	2.95E+01	-0.330090723	6
0.159674076	13	9.06E-01	0.22414715	13
1	10	7.49E-03	1	10
0.093040828	2	6.86E-01	1	2

0.609643998	1	2.53E-01	1	1
0.324825204	12	3.23E-01	0.50405085	12
0	1	7.61E-01	-0.02623013	1
-0.188460203	6	2.53E+00	0	6
-0.009063503	4	1.05E+00	0	4
0.084272872	6	9.16E-01	-0.11549734	6
0.045856523	9	1.35E+00	0.360116454	9
-0.114976056	3	1.25E+00	-0.184604382	3
-0.585844537	12	7.71E+01	-0.260990509	12
-0.435606399	7	8.27E+00	-0.356833499	7
-0.65190176	7	2.01E+01	-0.392841648	7
0	4	1.03E+00	0	4
0.942164525	8	2.24E-02	2	8
0.028456242	8	1.35E+00	0.046833296	8
-0.27043707	8	5.14E+00	-0.384616172	8
-0.818755327	7	3.98E+01	-1	7
-0.520557945	30	1.12E+04	-0.523340323	30
-1	6	9.75E+01	-1	6
-0.096381467	9	2.70E+00	-0.032000673	9
0.015175826	4	9.82E-01	-0.171119806	4
0.674984109	9	6.33E-02	0.687822471	9
2	24	1.17E-10	3	24
0.862515765	2	1.27E-01	-0.727044759	2
1	3	5.76E-02	0.211804055	3
0.870750537	12	1.21E-02	2	12
0.142640754	3	6.44E-01	0.597821921	3
-0.815611525	4	1.14E+01	-0.80313532	4
0.101266904	1	6.34E-01	0.088746069	1
0.44672207	10	1.79E-01	0.834046858	10
0.617157352	31	4.19E-03	1	31
1	12	1.46E-03	2	12
0.517402854	17	6.22E-02	0.825085296	17
0.397513599	6	2.86E-01	2	6
0.348028794	12	2.81E-01	0.709418038	12
-0.064351586	9	2.31E+00	0.061081352	9
0.079705578	5	8.69E-01	-0.025901066	5
-0.401894723	11	1.98E+01	-0.133308169	11
0.113886051	12	1.15E+00	1	12
0.146468722	5	6.96E-01	0.811922351	5
-0.790849889	8	5.30E+01	0.172122881	8
-0.839482611	8	6.60E+01	-1	8
-0.658483603	6	1.45E+01	-0.811471257	6
0.258002894	9	4.81E-01	2	9
-0.078996833	13	4.17E+00	0.032550016	13
0.225198628	7	5.49E-01	0.225074783	7
0.488420177	11	1.32E-01	-0.132490485	11
-0.015880024	18	4.72E+00	0.03133802	18

-0.545056257	11	4.44E+01	0.395718399	11
-0.223558481	6	2.88E+00	-0.170512054	6
0.57106029	8	1.18E-01	1	8
0.170558528	20	1.08E+00	-0.345557385	20
0.010951346	7	1.32E+00	-0.379839201	7
-0.775842454	11	1.63E+02	-0.256584504	11
0.529059054	11	1.05E-01	1	11
-0.110189205	5	1.64E+00	0.04885435	5
-0.393120967	7	6.94E+00	0.180429143	7
0.676269493	8	7.37E-02	0.606748735	8
0.3365105	6	3.58E-01	0.878046839	6
-0.894875766	22	4.09E+04	-0.696814959	22
-1	11	5.14E+03	-2	11
-0.070604491	7	1.85E+00	0.146875306	7
-0.221477573	17	2.17E+01	0.407821149	17
0.020382599	11	1.84E+00	0.463123886	11
-0.376718431	8	8.28E+00	-0.261073262	8
0.325954922	14	3.05E-01	-0.001466605	14
0.296576076	16	3.62E-01	0.422168963	16
-2	9	6.18E+03	0.33136069	9
1	10	3.26E-03	1	10
0.28513748	8	4.26E-01	1	8
-0.152673479	12	5.70E+00	0.562570395	12
-0.261179052	7	4.04E+00	0.178833047	7
-0.121013895	2	1.10E+00	0.127287257	2
-0.019889828	3	9.78E-01	-0.041560633	3
-1	5	3.21E+01	-1	5
0.426042689	3	3.10E-01	-0.808905073	3
-2	3	4.87E+01	-1	3
-1	5	6.60E+01	-0.807772273	5
-0.344810284	2	1.79E+00	0.769780118	2
0.675554675	3	1.63E-01	0.069630804	3
-0.93855181	5	2.60E+01	-0.564700299	5
0.489979465	7	1.85E-01	0.16235006	7
0.020697249	8	1.39E+00	0.168475361	8
0.371754134	5	3.28E-01	0.98688578	5
0.0340389	34	1.25E+01	0.195311772	34
0.1173062	10	1.01E+00	0.517781315	10
0.009997164	4	9.97E-01	0.362514195	4
-0.85291706	10	1.64E+02	-0.155742882	10
-0.104093801	7	2.12E+00	-0.245357833	7
0.573314065	16	4.50E-02	1	16
0.222919736	9	5.71E-01	1	9
0	1	7.61E-01	0.041211393	1
-0.073029906	18	7.59E+00	0.603295671	18
1	2	3.71E-02	2	2
0.969550825	8	1.98E-02	0.759786913	8

-4.70E-05	12	2.28E+00	0.121542054	12
-0.214718728	7	3.34E+00	0.267045351	7
0.380965742	6	3.04E-01	0.004267277	6
2	19	9.21E-06	2	19
1	24	5.99E-05	2	24
0.258692954	9	4.80E-01	-0.391898485	9
0.610904876	20	1.98E-02	0.951181689	20
0.845629517	14	9.02E-03	0.978379539	14
0.28226468	2	4.53E-01	0.308608042	2
0.242505007	5	5.05E-01	0.349495341	5
-0.022742577	9	1.89E+00	-0.649592897	9
-0.751756927	17	1.45E+03	-0.262773792	17
-0.016431459	5	1.20E+00	0.233957241	5
0.189581305	4	5.86E-01	0.07204487	4
0.220394325	5	5.43E-01	0.286471476	5
0.017015622	6	1.18E+00	0.165642202	6
1	12	1.02E-03	1	12
-0.331039844	9	8.46E+00	-0.425526133	9
0.207909482	4	5.55E-01	-0.388476625	4
-0.024187022	3	9.89E-01	-0.001096343	3
-0.003483861	7	1.40E+00	0.196015913	7
0.06579607	5	9.10E-01	-0.441122449	5
0.28704645	10	4.14E-01	-0.396332345	10
0.765786353	10	3.35E-02	2	10
0.248406786	35	5.70E-01	0.919394042	35
-0.025385793	2	8.89E-01	-0.338546775	2
-0.984559519	10	3.27E+02	-0.59149537	10
0.144057138	19	1.31E+00	0.562092626	19
-0.200338732	8	3.76E+00	0.200200604	8
-0.142217521	37	2.51E+02	0.036057184	37
-0.591784316	10	4.17E+01	-0.29846536	10
-1	8	6.04E+02	-0.499541951	8
-0.529285285	3	3.63E+00	0.187844554	3
1	23	2.09E-05	2	23
1	12	4.40E-04	2	12
0.6423734	17	2.31E-02	2	17
1	18	3.32E-04	2	18
-0.162915881	4	1.66E+00	1	4
-0.271980936	8	5.18E+00	-0.406539688	8
-0.257825844	10	7.22E+00	-0.569217178	10
0.031635078	24	5.38E+00	0.876188259	24
1	14	2.67E-03	1	14
0.670559933	4	1.41E-01	1	4
-0.492198207	5	5.86E+00	-0.070482935	5
-0.076784407	7	1.90E+00	-0.650105132	7
-2	3	6.46E+01	0.524859958	3
-0.688006796	2	3.80E+00	-0.389906478	2

-1	16	1.22E+05	-1	16
0.249614122	4	4.91E-01	-0.229092956	4
0.242963838	14	5.36E-01	0.038568978	14
-0.709282097	9	5.33E+01	0.503146574	9
-0.91551832	22	5.01E+04	-0.40372568	22
-0.640011907	7	1.91E+01	-1	7
-0.697173574	2	3.88E+00	-0.394464327	2
0.268989137	12	4.52E-01	-0.042401624	12
0.536081691	12	9.07E-02	1	12
0.920047497	13	7.01E-03	1	13
1	6	5.19E-03	2	6
0.61375505	17	2.90E-02	2	17
0.311650011	2	4.25E-01	1	2
0.564317042	11	8.60E-02	1	11
-0.425022863	24	6.80E+02	-0.797100123	24
0.693480603	1	2.17E-01	-0.141475445	1
0.899707365	10	1.66E-02	2	10
0	2	8.41E-01	-0.06486222	2
-1	11	1.54E+03	-1	11
-0.203427203	5	2.24E+00	-0.002260102	5
-0.47999265	3	3.20E+00	1	3
-0.027881734	3	9.98E-01	3	3
1	7	1.04E-02	3	7
2	2	1.09E-02	2	2
1	45	4.62E-09	2	45
0.98984139	2	9.61E-02	1	2
-0.753741275	10	9.75E+01	0.151070798	10
-0.154912599	7	2.61E+00	0.658561355	7
-0.291400223	7	4.57E+00	-1	7
-0.046725935	2	9.32E-01	-0.026423392	2
-0.966641646	6	4.57E+01	-0.44804139	6
0.408411378	16	1.56E-01	0.614605184	16
-0.698775408	7	2.43E+01	-0.424459099	7
-0.369018432	6	4.94E+00	0.807778213	6
-1	4	2.05E+01	-0.597947426	4
-0.03633667	5	1.28E+00	0.046629345	5
0.836286414	6	5.58E-02	2	6
2	64	4.90E-19	3	64
0.223563507	3	5.23E-01	-0.004025878	3
-0.271072837	7	4.21E+00	0.486172333	7
-0.873313525	6	3.23E+01	-0.493517153	6
-0.113461358	10	3.39E+00	0.20739394	10
0.765513862	14	1.55E-02	1	14
0.290866434	18	3.70E-01	0.180175347	18
0.232906816	6	5.27E-01	0.582461623	6
0.300917204	2	4.35E-01	0.931873734	2
-2	5	2.32E+02	-1	5

-0.283409839	4	2.37E+00	-1	4
0	1	7.61E-01	0	1
-0.15052149	3	1.37E+00	0	3
0.614070529	6	1.28E-01	-0.852881885	6
-0.108488189	11	3.80E+00	0.34147089	11
-0.019804836	1	7.89E-01	0.032908201	1
-0.106926497	4	1.41E+00	0.000564858	4
-0.267396385	3	1.85E+00	0	3
0.173508742	4	6.15E-01	-0.045801397	4
0.007813773	4	1.00E+00	-0.643254391	4
-2	13	2.24E+05	-2	13
0.343054892	18	2.40E-01	0.452058369	18
-0.024179515	6	1.37E+00	-0.889439039	6
-0.152432599	29	8.33E+01	-0.153451904	29
1	6	2.51E-02	0.698468797	6
-0.061585559	2	9.63E-01	0.025693098	2
0.141049013	5	7.08E-01	-0.360319904	5
-0.072479797	6	1.64E+00	0.916795498	6
0.222016635	9	5.73E-01	2	9
-0.229467932	4	2.02E+00	-0.279965454	4
0.254291993	5	4.85E-01	1	5
0.463063784	4	2.61E-01	0.45191028	4
-1	5	3.36E+01	-0.317244306	5
-0.057663791	7	1.75E+00	0.895974631	7
-1	10	2.97E+03	0.461408993	10
-0.160091606	5	1.94E+00	-0.329006477	5
-0.797111054	4	1.08E+01	-0.224537595	4
-0.49929776	7	1.07E+01	-2	7
0.264663616	5	4.69E-01	0.384276672	5
-0.03831372	2	9.15E-01	0.272197206	2
0.31022939	16	3.27E-01	0.780742324	16
0.792277677	4	9.87E-02	2	4
-0.162255121	6	2.29E+00	-0.683889306	6
-0.584845999	5	7.99E+00	-0.516141228	5
-0.018826537	12	2.55E+00	0.172047802	12
-0.8662333	6	3.14E+01	0.197204633	6
0.564626364	12	7.64E-02	1	12
-0.334658517	3	2.20E+00	-0.938976238	3
0.645973108	6	1.13E-01	0.841269133	6
2	3	6.79E-03	2	3
1	8	8.94E-03	2	8
0.635694441	32	2.84E-03	1	32
0.026131104	4	9.50E-01	0	4
-0.521273379	11	3.88E+01	-0.326150932	11
-0.096356129	43	2.79E+02	0.151037235	43
0.399532953	55	2.11E-02	0.545839835	55
0.280709233	7	4.38E-01	0.254435698	7

0.123673963	5	7.51E-01	-0.299793851	5
0.64286022	8	8.56E-02	1	8
-0.220186612	10	5.93E+00	0.057543312	10
1	19	1.46E-04	2	19
2	62	1.18E-18	3	62
3	1	7.44E-03	3	1
0.616767483	7	1.10E-01	-0.498564233	7
-0.007604806	9	1.75E+00	-0.550986326	9
0.747025988	81	6.90E-08	1	81
0.943485102	4	6.31E-02	2	4
0.120338275	1	6.12E-01	0.08565599	1
-0.679216041	6	1.57E+01	-0.136911173	6
0.607432032	7	1.15E-01	0.997309514	7
1	9	1.29E-02	1	9
0.51604243	8	1.51E-01	0.0383515	8
0.443365816	6	2.41E-01	1	6
-0.103658858	3	1.21E+00	0.158853766	3
-0.345512136	7	5.71E+00	-0.44095151	7
-0.760104071	8	4.62E+01	-0.633783458	8
0.273945763	4	4.57E-01	-0.354193069	4
0.028555338	8	1.35E+00	0.199424331	8
0.220532204	2	5.19E-01	0.751625682	2
-2	44	1.01E+14	-1	44
0.077327385	1	6.62E-01	0	1
0.077327385	1	6.62E-01	0	1
0.448425162	2	3.15E-01	-0.379057113	2
0.080571294	3	7.55E-01	-1	3
-0.035708974	5	1.28E+00	-0.117101155	5
-0.511768587	15	1.20E+02	-0.275131084	15
0.096259347	19	1.98E+00	0.754113867	19
0.062675814	17	2.28E+00	0.664592971	17
3	8	9.54E-06	3	8
0.591826706	3	2.03E-01	0.56720311	3
0.253873718	11	4.94E-01	0.804124022	11
0.728110846	3	1.43E-01	0.023543292	3
-0.253282305	13	1.27E+01	0.176071843	13
1	2	9.22E-02	1	2
0.134375248	63	1.19E+01	0.433700296	63
0.004587845	5	1.12E+00	0.627677701	5
0.522664645	18	5.39E-02	0.452739411	18
-0.030865615	1	8.05E-01	0.102038198	1
0.234627555	8	5.34E-01	-0.284276214	8
1	5	3.62E-02	2	5
1	6	6.87E-03	2	6
0.426494894	13	1.65E-01	1	13
0.797562174	3	1.19E-01	0.328716938	3
1	10	5.56E-03	0.831120517	10

1	8	4.55E-03	0.330285004	8
0.521932714	8	1.47E-01	0.443478075	8
0.703510315	3	1.52E-01	1	3
0.525812504	19	4.75E-02	0.569324973	19
0.452433424	12	1.50E-01	0.687800628	12
0.17669262	6	6.49E-01	0.463050964	6
1	10	2.24E-03	0.375927815	10
0.566735964	11	8.48E-02	0.684367276	11
1	353	1.07E-67	2	353
-0.031698087	3	1.01E+00	0.859722458	3
-0.753922092	8	4.50E+01	0.275681588	8
-0.380085038	5	4.03E+00	0.846746123	5
0.206699942	2	5.35E-01	0.038292326	2
-0.001922519	28	1.15E+01	-0.160893294	28
0.191058238	2	5.53E-01	0.014349913	2
0.032035606	2	7.84E-01	-0.104731001	2
0.224106876	26	7.20E-01	0.232178277	26
0.095739389	10	1.13E+00	0.23198583	10
2	14	1.80E-05	2	14
-0.05769534	27	2.00E+01	0.363313978	27
0.784149828	77	4.62E-08	1	77
0.59983405	10	8.01E-02	-0.033139882	10
0.131763082	8	8.47E-01	0.438508482	8
-0.03558371	4	1.14E+00	0.347704808	4
-0.542283755	2	2.76E+00	-0.585275736	2
-0.316017888	3	2.10E+00	-0.473688087	3
0.010825583	3	9.04E-01	-0.055906057	3
-0.183638084	13	8.14E+00	-0.361544814	13
-0.241327995	10	6.62E+00	-0.117704868	10
-0.880433927	20	1.48E+04	-0.407873597	20
0.179211664	9	7.06E-01	1	9
0.148201397	9	8.21E-01	-0.098255926	9
-0.432008467	5	4.80E+00	0	5
-0.606893486	23	3.36E+03	-1	23
-0.356309384	10	1.21E+01	0.317719035	10
0.069875268	8	1.12E+00	0.157851412	8
-0.457835934	39	5.92E+04	-0.393924135	39
0.906085077	6	4.30E-02	0.228747347	6
-1	11	9.22E+02	-1	11
-0.211096517	11	6.77E+00	0.157771797	11
-0.09298878	7	2.03E+00	0.161712989	7
-0.330938369	6	4.29E+00	-0.371333548	6
-0.398485926	8	9.13E+00	0.359551417	8
0.600787618	20	2.17E-02	0.831100653	20
0.541312709	6	1.67E-01	-0.632529433	6
1	6	1.04E-02	0.242419903	6
0.958099537	10	1.22E-02	2	10

0.182395333	19	9.38E-01	0.78552439	19
0.549979201	6	1.62E-01	2	6
0.281307228	5	4.43E-01	0.611900443	5
0.953454262	13	5.66E-03	2	13
2	13	3.59E-07	3	13
-0.042258491	2	9.23E-01	-0.478804238	2
-0.686467656	7	2.31E+01	0.153024717	7
0.032468865	3	8.55E-01	-0.097418519	3
-0.204180816	8	3.82E+00	-1	8
-0.282996184	7	4.42E+00	-0.090693954	7
-1	7	4.71E+02	-0.753470694	7
0.666717774	5	1.22E-01	0.008533512	5
0.284264518	8	4.27E-01	0.488092567	8
0.923459666	8	2.43E-02	1	8
-0.875828444	5	2.11E+01	-0.311456975	5
0.745550676	15	1.48E-02	1	15
2	5	2.49E-03	1	5
0.530048146	13	8.49E-02	0.408737008	13
-0.583672704	8	2.09E+01	-1	8
0.203540014	19	7.81E-01	0.581960529	19
0.504461801	5	2.11E-01	-0.237121998	5
-1	13	3.63E+03	-0.524560365	13
-0.072010178	7	1.86E+00	-0.298208232	7
0.055351445	3	8.06E-01	-0.00703945	3
0.461852625	57	4.46E-03	1	57
2	11	3.10E-04	2	11
0.547400174	5	1.82E-01	0.761333713	5
0.218776183	11	6.02E-01	0.600760961	11
1	11	3.96E-03	0.907348286	11
1	16	2.31E-04	2	16
0.038687651	3	8.41E-01	0.065236827	3
0.499902458	29	2.38E-02	1	29
-0.245657152	4	2.12E+00	0.768447136	4
2	3	5.10E-03	2	3
3	9	8.62E-07	4	9
1	2	8.92E-02	0.224545195	2
0.67268226	20	1.13E-02	-0.223070224	20
0.38953364	13	2.08E-01	0.770242655	13
0.038345478	6	1.09E+00	2	6
-0.217518466	2	1.36E+00	-0.042455208	2
0.296054329	16	3.64E-01	0.698092182	16
0.565884035	5	1.72E-01	-0.004724322	5
0.263012498	24	4.64E-01	0.552141939	24
0.003231624	2	8.35E-01	-0.031084407	2
-0.002291677	26	9.43E+00	0.062672275	26
0.154949201	13	9.34E-01	0.803291991	13
0.018052756	7	1.29E+00	0.309773281	7

-2	5	3.52E+02	-0.961744098	5
-1	3	2.34E+01	0.215182892	3
1	11	4.61E-04	2	11
2	8	1.82E-03	2	8
2	10	3.86E-04	1	10
-0.050956628	12	3.09E+00	-0.03738582	12
0.445243449	47	1.33E-02	0.854997705	47
-0.555649774	6	9.90E+00	-0.932291199	6
-0.800000751	4	1.09E+01	-0.064338591	4
-0.616690771	6	1.24E+01	-0.203438232	6
2	8	1.81E-03	0.769915035	8
0.713997058	13	2.62E-02	0.392252559	13
0.658160891	4	1.47E-01	0.231621845	4
1	27	4.95E-06	2	27
-0.084937301	9	2.55E+00	0.701056915	9
1	52	2.25E-10	1	52
1	14	1.20E-04	2	14
-0.014105487	6	1.32E+00	-0.011443167	6
0.041161232	5	9.89E-01	0.847338909	5
0.246261288	14	5.24E-01	1	14
0.509959259	14	8.77E-02	1	14
0.054078888	6	1.02E+00	0.025286199	6
-0.282837704	6	3.59E+00	-0.144789305	6
-0.455898204	9	1.55E+01	-0.780005407	9
-0.067374889	9	2.34E+00	-0.261336789	9
1	5	1.10E-02	2	5
0.184456324	3	5.78E-01	0.971307218	3
1	12	4.75E-04	1	12
0.726941941	4	1.20E-01	1	4
2	12	8.31E-05	2	12
0.556235525	16	5.12E-02	0.792312896	16
0.757308494	12	2.40E-02	0.988670537	12
0.182099406	14	8.09E-01	0.483506081	14
0.772681187	16	1.00E-02	2	16
0.681412286	13	3.22E-02	1	13
-0.868684786	9	1.16E+02	0.298748184	9
2	8	1.37E-03	2	8
1	14	2.36E-03	2	14
0.032395209	5	1.02E+00	-1	5
-0.71892658	6	1.82E+01	-2	6
-0.446964899	4	3.85E+00	0.090252751	4
0.927248504	35	2.47E-05	1	35
0.805877983	31	3.42E-04	1	31
-0.312423954	3	2.08E+00	2	3
0.108461851	15	1.41E+00	0.30036191	15
-0.037890681	25	1.26E+01	-0.033279264	25
0.23615214	3	5.06E-01	-0.417402967	3

-0.432414484	7	8.16E+00	0.612348721	7
-0.148042301	16	1.04E+01	0.528839579	16
-0.226725168	5	2.42E+00	0.096644621	5
1	2	7.97E-02	1	2
2	45	4.90E-17	3	45
0.056197798	4	8.69E-01	0.111308662	4
0.562594917	12	7.73E-02	1	12
0.659256399	4	1.46E-01	2	4
3	30	9.93E-17	4	30
-0.604767524	6	1.19E+01	0.254785204	6
-1	5	6.75E+01	-0.297322603	5
0.017284624	11	1.87E+00	-0.613147906	11
1	3	3.11E-02	-0.132906451	3
0.118422283	10	1.00E+00	1	10
0.660788788	9	6.78E-02	1	9
2	8	7.05E-04	3	8
1	12	1.87E-03	3	12
0.803289818	18	5.24E-03	2	18
0.778230955	12	2.12E-02	2	12
0.594594883	2	2.28E-01	2	2
0.50294015	4	2.32E-01	1	4
1	15	5.50E-04	2	15
1	34	6.37E-08	2	34
-0.021039815	4	1.09E+00	0.663980929	4
-0.252909697	5	2.64E+00	-0.33345479	5
-0.093077861	1	9.01E-01	-0.03178936	1
-0.093077861	1	9.01E-01	-0.03178936	1
-1	2	1.20E+01	-0.384565062	2
-0.956184257	2	6.84E+00	-0.440444961	2
-0.583982179	5	7.97E+00	-0.88877748	5
-0.000202309	1	7.62E-01	-0.029691723	1
-0.000202309	1	7.62E-01	-0.029691723	1
-0.328629881	11	1.31E+01	-0.089733786	11
-0.122517762	6	1.98E+00	-0.226931922	6
-0.99390703	4	1.94E+01	-0.436622102	4
0.338435414	3	3.89E-01	-0.226752571	3
0.797334781	1	1.80E-01	-0.067619586	1
-0.52145603	1	1.96E+00	-0.073114059	1
-1	2	1.01E+01	-2	2
-0.823699346	3	7.74E+00	-0.935987655	3
-1	4	2.64E+01	-2	4
-0.879377348	6	3.30E+01	-0.849690612	6
-0.462772745	3	3.06E+00	-0.566599815	3
-0.098927169	2	1.04E+00	-0.211233352	2
0.915482597	11	1.19E-02	0.974723442	11
0.492346343	13	1.08E-01	0.472580988	13
0.335606383	36	1.52E-01	0.33470778	36

1	2	5.10E-02	0.928357172	2
1	6	7.21E-03	0.500215176	6
3	9	1.53E-06	3	9
0.15078608	4	6.57E-01	0.963635818	4
-0.14443873	2	1.15E+00	0.195718961	2
-0.275830932	8	5.27E+00	-0.01489986	8
0.005799118	11	2.00E+00	0.009745141	11
-0.121146462	3	1.27E+00	-0.020371713	3
-0.109973194	7	2.17E+00	-0.09007194	7
0	7	1.38E+00	0	7
-0.532337183	19	4.66E+02	-0.368129623	19
0.392775229	7	2.76E-01	1	7
0.067149117	3	7.82E-01	0.441939764	3
3	17	4.02E-09	3	17
0.497368267	15	8.73E-02	1	15
0.067001854	7	1.05E+00	-0.352027631	7
0.851806126	10	2.13E-02	1	10
-1	8	3.11E+02	-0.46730595	8
-0.529377953	6	8.98E+00	-0.684220326	6
-0.610706564	10	4.60E+01	-1	10
-0.158200106	20	2.12E+01	-0.047966887	20
-1	6	6.58E+01	-0.084805481	6
0.271807022	7	4.54E-01	0.784929866	7
0.001088186	4	1.02E+00	0.315906219	4
-0.219964579	5	2.36E+00	-0.308882386	5
-0.207861675	2	1.33E+00	-1	2
-0.172732226	2	1.23E+00	-0.290953188	2
-0.064596518	4	1.24E+00	0.29595124	4
-0.413281855	13	3.54E+01	0.769736063	13
0.005157245	11	2.00E+00	0.871481353	11
-0.21608235	6	2.80E+00	-0.711481003	6
-0.244750875	3	1.74E+00	0.482790558	3
0.612732058	26	8.70E-03	0.793657893	26
-0.502379902	10	2.61E+01	-0.245842221	10
-0.306013237	5	3.15E+00	-2	5
-0.094413347	2	1.03E+00	-0.664285222	2
0.676383263	67	6.28E-06	1	67
0.380450386	12	2.31E-01	0.465573507	12
0.386984143	10	2.45E-01	0.581011257	10
-0.135683816	4	1.53E+00	0.210238949	4
0	4	1.03E+00	-0.26107572	4
-0.016797182	4	1.08E+00	-0.42626579	4
-0.986128075	4	1.89E+01	-0.615793629	4
1	35	6.68E-07	1	35
0.32882658	4	3.88E-01	0.544577752	4
-0.469599175	5	5.44E+00	-0.289612165	5
-0.577220148	7	1.48E+01	-0.610693376	7

-0.318678069	3	2.11E+00	0	3
0.034535419	3	8.50E-01	-0.032580594	3
0.026726164	3	8.68E-01	-0.948828278	3
-0.394113761	8	8.95E+00	-1	8
-0.628060581	2	3.33E+00	0.719293332	2
-0.75023691	7	3.00E+01	0.201893892	7
-0.074936504	1	8.72E-01	0	1
-0.088824561	2	1.02E+00	-0.007244648	2
0.361510639	18	2.06E-01	0.532963169	18
2	2	1.50E-02	2	2
1	46	8.68E-08	1	46
2	6	5.15E-04	2	6
-1	5	1.25E+02	-2	5
-0.781348769	5	1.54E+01	-0.374586969	5
0.317300997	11	3.45E-01	-0.357967618	11
0.96423399	2	1.02E-01	0.39693411	2
0.263309066	4	4.71E-01	-0.708408368	4
-0.550586973	9	2.46E+01	-0.940802601	9
-0.208763907	2	1.33E+00	-0.000129112	2
0.309972102	28	2.61E-01	0.89987607	28
-0.261377224	6	3.31E+00	0.547776012	6
-0.18954362	2	1.27E+00	0.433735053	2
0.270826607	20	4.33E-01	0.395528351	20
-0.166910589	2	1.21E+00	-0.215207769	2
-0.083856891	11	3.31E+00	0.264917243	11
-0.200776539	21	3.72E+01	0.796050224	21
0.073246257	7	1.02E+00	0.22149745	7
1	8	1.26E-02	0.810510035	8
-0.880731132	7	5.13E+01	-0.158061457	7
-0.581415473	8	2.07E+01	-0.745613389	8
-0.109358667	4	1.42E+00	0.144849658	4
0.267447162	3	4.67E-01	-1	3
0.150612389	6	7.15E-01	2	6
0.436196933	11	1.77E-01	0.179687998	11
0.224998569	17	6.30E-01	0.648014734	17
0.216330078	11	6.10E-01	0.368363734	11
0.092311662	1	6.44E-01	0.184901461	1
0.984979888	3	7.36E-02	1	3
2	8	6.73E-04	2	8
1	16	2.37E-04	2	16
-1	9	7.15E+02	-0.017202004	9
-0.048466832	15	4.34E+00	0.170579411	15
-0.279839408	5	2.89E+00	0.023251902	5
1	8	7.35E-03	1	8
0.945449445	17	2.09E-03	2	17
-0.020145754	8	1.67E+00	0.192422238	8
0.362580691	14	2.38E-01	0.928669995	14

-0.025456981	9	1.91E+00	1	9
0.837924701	20	2.53E-03	1	20
0.106525933	7	8.94E-01	0.137699594	7
-0.00078515	5	1.14E+00	0.411832517	5
0.512108234	2	2.74E-01	1	2
0.004150008	3	9.19E-01	-0.435976538	3
0.262769662	6	4.71E-01	-0.358435212	6
-0.297462089	5	3.06E+00	-0.208759607	5
0.468904123	35	2.18E-02	0.655596809	35
-0.736028928	18	1.87E+03	-1	18
-2	4	9.48E+01	-2	4
-0.671197267	3	5.23E+00	-0.510297736	3
0.101194454	7	9.14E-01	-0.286890577	7
0.175083898	5	6.32E-01	0.365367622	5
0.98292731	5	4.26E-02	1	5
0.465551739	36	2.12E-02	0.734887624	36
0.30014869	3	4.29E-01	0.453386132	3
1	3	6.02E-02	2	3
0.044712101	6	1.06E+00	0.442579383	6
0.169436637	3	6.01E-01	0.262322197	3
0.149393577	9	8.17E-01	1	9
0.363837602	24	1.59E-01	0.22917828	24
-0.052861396	1	8.38E-01	0.128878144	1
1	15	1.00E-03	1	15
-0.336612267	9	8.69E+00	0.380990694	9
-0.419833341	8	1.00E+01	0.020498769	8
-0.783849632	17	1.87E+03	-0.332227705	17
-0.643514408	6	1.37E+01	0.538315537	6
0.437288169	2	3.23E-01	0.06653251	2
0.296941841	9	3.98E-01	0.235479562	9
0.832936971	15	7.90E-03	0.296724926	15
0.649906004	9	7.15E-02	0.884863949	9
1	4	1.88E-02	1	4
0.61336459	27	7.55E-03	1	27
0.678374311	7	8.56E-02	0.637882409	7
-0.242814922	13	1.19E+01	-1	13
-0.196001889	26	8.52E+01	-0.326755127	26
0.39319473	1	3.74E-01	0.031099455	1
0.271773318	9	4.50E-01	0.926106177	9
-0.010731568	2	8.61E-01	-0.046649467	2
0.161093071	7	7.15E-01	0.22941869	7
1	13	4.69E-04	1	13
1	5	1.42E-02	0.843784162	5
-0.018661305	4	1.08E+00	-0.407301677	4
-0.908323715	13	8.38E+02	-0.525192284	13
0.689485491	19	1.15E-02	0.707899896	19
-0.91909131	7	6.01E+01	0.428617738	7

-0.319325416	6	4.11E+00	-0.318233598	6
0.116023106	8	9.09E-01	-0.256343673	8
0.890536826	35	4.25E-05	1	35
2	5	9.70E-04	2	5
0.485460075	4	2.44E-01	-0.378874466	4
0.175665606	7	6.73E-01	0.095370023	7
-0.417734249	21	2.89E+02	-0.488094385	21
-0.588231173	4	5.84E+00	-0.752232729	4
0.77152286	8	4.81E-02	0.86941483	8
-0.141658888	6	2.12E+00	0.58494566	6
-0.034474838	10	2.24E+00	0.575070999	10
0.127260408	4	7.05E-01	0.260916581	4
-0.437436192	15	7.03E+01	0.033789597	15
-0.340398092	4	2.81E+00	0.253946654	4
0.398566846	9	2.43E-01	0.675946425	9
-0.208591496	5	2.28E+00	-0.31748391	5
0.27752942	4	4.52E-01	0.310122509	4
0.034117182	3	8.51E-01	-0.794833465	3
0.961068233	15	3.16E-03	0.930919335	15
-0.248634105	8	4.66E+00	-0.106442935	8
-0.347170934	10	1.15E+01	-0.188734589	10
0.210682966	13	6.54E-01	-0.256699621	13
2	12	1.01E-04	2	12
-0.31052514	3	2.07E+00	0.742217053	3
-0.112278977	5	1.65E+00	1	5
0.415095622	8	2.38E-01	1	8
0.467495174	4	2.58E-01	1	4
0.349658811	12	2.78E-01	-0.69762566	12
-0.988217366	11	5.38E+02	-0.479993727	11
-0.05415029	1	8.40E-01	-0.178020308	1
-0.304410964	7	4.83E+00	-0.422065986	7
-0.125690229	4	1.49E+00	-0.158183689	4
0.562902507	26	1.53E-02	0.979459356	26
-0.238580277	10	6.53E+00	-0.019394702	10
0.192942132	32	1.20E+00	0.907401667	32
-0.029982699	11	2.44E+00	2	11
-0.24042729	3	1.73E+00	0.01160503	3
-0.173596359	6	2.39E+00	-0.73836326	6
-0.617366923	7	1.74E+01	-1	7
0.005977076	4	1.01E+00	-0.070436859	4
1	21	1.37E-04	1	21
0.800212187	20	3.56E-03	0.518564076	20
-0.000508681	3	9.31E-01	-0.147124751	3
-0.133099219	2	1.13E+00	0.242545408	2
1	3	2.39E-02	2	3
0.003489502	7	1.36E+00	0.007947809	7
2	48	8.63E-12	2	48

0.334659741	8	3.41E-01	-0.123274442	8
1	14	2.33E-03	1	14
-0.774797854	10	1.09E+02	0.295328712	10
-0.029437303	17	4.73E+00	0.317120964	17
0.664751058	7	9.05E-02	0.605960067	7
0.462857131	7	2.07E-01	0.533526318	7
-0.348989823	4	2.88E+00	-1	4
-0.798667914	10	1.23E+02	0.237836046	10
-0.122326582	4	1.47E+00	-0.301364526	4
0.346988329	3	3.80E-01	0.928312848	3
-0.50131205	3	3.38E+00	-0.051815112	3
-0.007205324	9	1.75E+00	0.319178106	9
-2	4	9.74E+01	-0.420767493	4
-0.277105665	12	1.21E+01	-0.21320403	12
-0.254690923	24	1.12E+02	-0.283888388	24
-0.25525529	6	3.24E+00	-0.498816468	6
-0.66770216	5	1.05E+01	0.359134873	5
-0.03336437	2	9.05E-01	0.009550046	2
-0.292546933	2	1.60E+00	-0.652261364	2
-0.482069059	4	4.27E+00	-0.255135909	4
-0.859770946	4	1.30E+01	-0.940589532	4
-0.797422024	8	5.46E+01	-0.303211201	8
-0.867063529	4	1.33E+01	-0.211092545	4
-0.127505382	10	3.64E+00	0.138635746	10
-0.216610711	9	4.85E+00	0.977548781	9
1	13	8.17E-04	2	13
1	6	4.80E-03	2	6
2	5	6.92E-03	2	5
1	4	2.92E-02	2	4
2	4	3.60E-03	1	4
0.274020484	4	4.57E-01	0.240809446	4
-1	26	1.13E+08	-0.934670312	26
-0.355885125	3	2.32E+00	-0.170124448	3
0.552253517	7	1.44E-01	0.498250748	7
0.296368389	8	4.05E-01	0.431941419	8
-0.37221019	3	2.42E+00	0.314643124	3
1	7	9.45E-03	2	7
2	3	1.52E-02	2	3
2	13	1.64E-04	2	13
0.694350487	4	1.32E-01	0.666442228	4
0.545548267	68	1.93E-04	0.478014886	68
0.017303378	2	8.10E-01	0.055946468	2
0.132791192	10	9.30E-01	0.382649775	10
0.179958025	12	7.72E-01	0.893111689	12
0.02334044	9	1.51E+00	-0.154854617	9
-0.358078247	3	2.34E+00	-0.205100086	3
0.366385829	33	1.08E-01	0.796346181	33

-0.108769429	8	2.49E+00	0.592535925	8
-1	9	3.37E+02	-0.463628008	9
-0.060902165	12	3.28E+00	-0.501225548	12
-0.217647615	28	1.57E+02	0.270963446	28
-0.250765796	3	1.77E+00	0.586118145	3
-0.758509584	14	4.75E+02	-0.442210414	14
-0.737346626	4	9.08E+00	-1	4
0.444097026	20	9.00E-02	0.412936122	20
2	11	7.00E-05	2	11
-0.089099324	5	1.53E+00	0.31955694	5
2	7	2.51E-03	0.549360487	7
-0.896180231	2	6.00E+00	-1	2
0.106510304	14	1.35E+00	0.198719107	14
0.068659142	3	7.79E-01	0.168669468	3
2	26	3.97E-09	3	26
0.432209745	11	1.81E-01	0.303446308	11
0.310301013	3	4.18E-01	-0.099078828	3
0.463787485	9	1.77E-01	0.603188628	9
-0.981700229	14	2.15E+03	-1	14
-0.456541384	7	9.01E+00	0.191440292	7
-0.231179466	3	1.68E+00	0.014085232	3
0.018575312	2	8.08E-01	-0.015741851	2
-0.743182344	4	9.24E+00	-1	4
0.320444024	2	4.17E-01	0	2
-0.459481579	13	4.75E+01	0.212714931	13
-0.038418512	2	9.15E-01	-0.032214994	2
-0.729528981	6	1.89E+01	-0.918195146	6
0.768141675	2	1.56E-01	0.671557384	2
0.828757911	8	3.72E-02	1	8
-1	4	3.02E+01	-0.825324807	4
-0.28222594	2	1.56E+00	-0.000349043	2
-0.050112321	3	1.06E+00	0	3
0.579740221	5	1.64E-01	0.42109299	5
-0.266190287	4	2.26E+00	-0.150704893	4
0.617824785	4	1.65E-01	0.478130069	4
0.094688113	19	2.01E+00	0.782964547	19
-0.139539203	73	5.93E+04	0.0258036	73
0.451820092	22	7.25E-02	0.853347032	22
0.326876019	8	3.53E-01	2	8
0.552134476	31	9.93E-03	0.755747991	31
-0.76757457	5	1.47E+01	-0.504776018	5
-2	16	2.93E+05	-1	16
-0.587882639	5	8.07E+00	-0.486829891	5
-0.637944591	6	1.34E+01	-0.50266237	6
-0.322611783	9	8.12E+00	0.401046497	9
0.555917132	5	1.77E-01	-0.531669214	5
-0.271799102	20	5.94E+01	-0.049531614	20

-1	3	2.37E+01	-2	3
-0.516639041	1	1.94E+00	-0.714705765	1
-0.862507321	2	5.57E+00	-1	2
-0.790555362	2	4.76E+00	0.122625583	2
-0.219880495	31	2.80E+02	0.460322382	31
0.476580212	15	1.01E-01	0.546473551	15
0.74378956	3	1.37E-01	1	3
0.221237539	11	5.93E-01	0.521495464	11
0.37047672	6	3.16E-01	0.23988904	6
-0.31204092	4	2.58E+00	0.30380908	4
0	1	7.61E-01	0.036969444	1
-0.160746364	2	1.20E+00	-0.270019923	2
0.192747159	11	6.96E-01	0.260852264	11
1	43	1.06E-07	1	43
-0.798195107	2	4.84E+00	-0.990317416	2
-0.382504576	4	3.18E+00	-0.383171029	4
-0.906118702	3	9.57E+00	-0.334726226	3
-0.893248145	5	2.24E+01	-2	5
-1	5	4.31E+01	-2	5
-2	2	4.56E+01	-2	2
0.323820062	9	3.49E-01	-0.078759466	9
-0.026549648	48	1.39E+02	0.562914406	48
0.072686405	3	7.71E-01	0.156938663	3
-0.718069547	4	8.58E+00	-0.191843128	4
-0.600924278	10	4.37E+01	-0.52394091	10
-0.812071266	7	3.87E+01	-0.752522916	7
2	11	2.38E-04	2	11
2	1	2.10E-02	2	1
0.587975969	6	1.41E-01	0.560202358	6
0.193982835	20	8.70E-01	0.864765601	20
-1	4	2.23E+01	-1	4
-0.775909399	15	7.94E+02	-0.642766681	15
-0.538906643	5	6.85E+00	-0.534102356	5
-1	10	1.82E+03	-2	10
-0.843586724	9	1.02E+02	-1	9
-0.358615692	10	1.23E+01	-1	10
1	27	1.27E-05	2	27
-0.026672794	1	7.99E-01	-0.087302519	1
-0.562052875	4	5.41E+00	-1	4
0.007315409	4	1.00E+00	-0.590905355	4
0.292270577	5	4.28E-01	1	5
-0.329717684	9	8.41E+00	0.252244616	9
-0.620386949	12	9.49E+01	0.932855133	12
0.36303678	10	2.78E-01	0.469175375	10
0.017914381	3	8.87E-01	-0.067380602	3
-0.250082495	15	1.84E+01	-0.139322369	15
0.493254426	3	2.61E-01	0.318049023	3

0.17604259	11	7.65E-01	0.421440909	11
0.304519955	8	3.90E-01	0.79692067	8
0.500253445	12	1.13E-01	1	12
-0.427293839	7	7.99E+00	-0.377051406	7
0.823102067	29	4.19E-04	0.94300313	29
1	8	2.38E-03	2	8
-0.07209762	23	1.42E+01	1	23
-1	17	1.50E+04	-2	17
-0.323586793	4	2.67E+00	-0.495026367	4
-1	4	7.39E+01	-0.533594442	4
-1	15	1.29E+04	-0.625158205	15
-0.099137275	5	1.58E+00	-1	5
-0.07494742	4	1.28E+00	-1	4
-1	5	1.31E+02	-0.316020334	5
-0.816759439	10	1.36E+02	-2	10
-0.342620545	4	2.83E+00	-2	4
-0.518663082	9	2.11E+01	-0.16161875	9
-0.60797006	8	2.34E+01	0.645885395	8
-0.330145883	3	2.17E+00	0.126183842	3
-0.108229326	3	1.23E+00	0	3
0.136151053	11	9.58E-01	0.324348749	11
1	10	8.47E-03	2	10
1	3	3.25E-02	0.85737883	3
1	2	8.91E-02	2	2
1	2	4.42E-02	2	2
0.9047396	8	2.64E-02	1	8
-0.422105265	6	6.02E+00	0.310233071	6
0.112341977	9	9.78E-01	0.870982222	9
-0.502715132	16	1.50E+02	-0.300153349	16
-0.516651108	6	8.56E+00	-0.945036382	6
-1	8	1.37E+02	-1	8
-2	4	1.30E+02	-1	4
-0.703122151	2	3.93E+00	-0.326483659	2
1	13	3.16E-04	1	13
-0.135354551	4	1.53E+00	0.200428379	4
0.798468029	26	1.06E-03	2	26
0.40146515	13	1.93E-01	0.630501505	13
-0.025765236	6	1.38E+00	-0.677326376	6
0.947240918	9	1.68E-02	0.941299363	9
0.664662241	2	1.96E-01	1	2
0.96089453	68	2.20E-09	1	68
-0.056623177	7	1.75E+00	-0.390639053	7
-0.586928538	10	4.06E+01	-1	10
-0.7494419	7	3.00E+01	0.337846162	7
-0.028361125	3	1.00E+00	0.003272115	3
-0.535534826	8	1.69E+01	-0.085003687	8
-0.691969741	5	1.14E+01	-0.787746028	5

-0.774262966	4	1.01E+01	-1	4
-0.796549623	8	5.44E+01	0.27866503	8
-0.674308437	8	3.15E+01	-0.078759716	8
-0.26753041	25	1.57E+02	-0.897817095	25
1	20	5.38E-05	2	20
0.551707903	11	9.23E-02	1	11
-0.148128845	11	4.75E+00	0.581675687	11
0.27907606	5	4.47E-01	0.475380491	5
2	9	8.26E-04	1	9
1	3	2.16E-02	2	3
0.710005421	24	4.06E-03	1	24
0.029056038	3	8.62E-01	0.315722379	3
-0.384327898	10	1.40E+01	0.236756176	10
-0.715691788	2	4.04E+00	-0.146077947	2
-1	5	3.23E+01	-0.624893427	5
-0.92252985	8	9.57E+01	-0.756224949	8
-1	10	1.17E+03	-2	10
-0.637529749	5	9.53E+00	-2	5
-0.826705989	2	5.15E+00	-1	2
-0.388492294	5	4.15E+00	-1	5
-1	5	9.60E+01	-0.519903653	5
-0.246561333	3	1.75E+00	-0.579643939	3
-1	2	1.72E+01	-2	2
-0.118958564	6	1.95E+00	-0.289095702	6
-0.569622013	8	1.97E+01	-0.234844393	8
0.223436172	4	5.30E-01	1	4
-0.006224026	4	1.05E+00	0.011924715	4
-1	8	6.40E+02	-0.26005776	8
0.758987737	18	7.58E-03	0.782364192	18
0.101294995	7	9.14E-01	0.218979366	7
-1	7	1.46E+02	-0.766593476	7
-0.120649302	11	4.07E+00	-0.855380167	11
-1	6	2.08E+02	-0.79201144	6
-0.536949042	7	1.25E+01	-0.478642706	7
0.145356473	7	7.62E-01	-1	7
-0.279019669	3	1.91E+00	-0.144634357	3
0.121252753	4	7.17E-01	-0.504414384	4
-0.886318387	12	4.70E+02	-0.216025179	12
-0.138065697	8	2.84E+00	-0.531862766	8
-0.055452073	7	1.74E+00	-0.637495971	7
-0.948959483	5	2.69E+01	-1	5
-1	5	5.40E+01	-2	5
0.203720567	29	9.69E-01	0.445626364	29
0.063227341	7	1.07E+00	0.519582319	7
-0.111675735	5	1.65E+00	-0.553089536	5
-0.885925467	7	5.24E+01	-0.636737057	7
-0.267926838	11	9.32E+00	0.185217181	11

-0.336965595	9	8.71E+00	-0.436920093	9
-0.064594627	16	5.52E+00	-0.121472243	16
0.980830449	12	6.26E-03	1	12
-1	5	4.20E+01	-1	5
-0.459011049	13	4.74E+01	-0.99380722	13
-0.318487423	2	1.69E+00	-0.488251771	2
-0.180879263	2	1.25E+00	-0.252849405	2
-0.011875204	2	8.63E-01	-0.019715137	2
-0.312494365	3	2.08E+00	0.004242001	3
0.27830162	3	4.54E-01	0.669349867	3
0.078423987	3	7.59E-01	0.917510304	3
0.580700799	6	1.44E-01	1	6
1	5	3.51E-02	2	5
0.964951868	10	1.18E-02	1	10
0.691932302	7	8.10E-02	2	7
2	23	6.55E-09	3	23
1	5	9.50E-03	2	5
1	4	2.20E-02	2	4
2	16	1.19E-05	2	16
0.827108953	32	2.08E-04	1	32
3	15	2.68E-10	4	15
0.743572434	11	3.13E-02	0.954818435	11
0.844208072	13	1.14E-02	0.762524431	13
0.729011511	27	1.94E-03	0.747170025	27
-0.120268052	20	1.50E+01	0.458083749	20
-0.187719992	5	2.12E+00	0.500089556	5
-0.413146841	32	4.70E+03	-0.216870275	32
0.511348287	16	7.18E-02	0.627552963	16
-0.473714917	5	5.51E+00	0.316893996	5
0.916900537	5	5.31E-02	1	5
-0.16949769	10	4.54E+00	0.140677402	10
2	5	7.33E-03	1	5
-0.20887423	5	2.28E+00	0.900778107	5
-0.32902751	13	2.06E+01	-0.289358472	13
-0.396733837	7	7.05E+00	-0.32480755	7
-0.129710974	8	2.74E+00	0.050742553	8
0.291935988	11	3.98E-01	-0.432081092	11
-0.066371652	6	1.60E+00	-0.046506164	6
2	15	1.91E-07	3	15
-0.264257472	14	1.67E+01	-0.575516897	14
0.898964668	20	1.45E-03	1	20
-0.419602054	18	1.35E+02	-0.50782643	18
0.060053199	4	8.60E-01	-1	4
0.005470423	7	1.35E+00	-0.000511901	7
-0.422438332	4	3.58E+00	0.826756266	4
-1	2	9.19E+00	-1	2
-0.01556521	7	1.48E+00	0.374861683	7

0.865731988	16	4.96E-03	1	16
0.026765661	10	1.62E+00	-0.177761184	10
1	20	5.20E-04	2	20
-0.143270816	3	1.34E+00	0.053296287	3
-0.96612548	3	1.12E+01	-0.096928	3
0.34486382	26	1.83E-01	0.775491089	26
-0.198955171	3	1.55E+00	-0.859734215	3
-0.507006811	13	6.44E+01	0.048948342	13
-0.963401489	4	1.77E+01	-1	4
-0.099655148	5	1.58E+00	-0.017989917	5
1	69	6.36E-13	2	69
-0.189655206	7	3.01E+00	0.405689203	7
-0.185784604	3	1.50E+00	0.054141758	3
-0.891261793	9	1.29E+02	-1	9
-0.207895156	7	3.25E+00	0.495023968	7
0.23785003	6	5.17E-01	0.103295569	6
1	13	3.18E-03	2	13
0.487854463	7	1.87E-01	0.969977514	7
0.933309311	26	2.28E-04	2	26
0.46087537	9	1.79E-01	0.562674159	9
0.603426599	41	1.36E-03	0.928722628	41
0.261252779	5	4.74E-01	0.533687319	5
0.941546621	21	7.62E-04	0.904480659	21
1	11	3.21E-03	2	11
-0.015276433	2	8.70E-01	0.698622093	2
2	21	8.99E-08	2	21
0.757757689	2	1.60E-01	0.056972926	2
0.448873649	13	1.43E-01	0.298779491	13
0.924120731	13	6.83E-03	1	13
-0.206931611	9	4.62E+00	1	9
-0.391098731	8	8.83E+00	0.484947662	8
2	8	1.57E-03	2	8
0.558266278	14	6.32E-02	0.716201726	14
-0.441529285	4	3.79E+00	0.285276966	4
0.063801866	7	1.07E+00	-0.042559061	7
-0.19582981	7	3.09E+00	-0.060607426	7
-0.073667086	8	2.13E+00	0.260904327	8
2	11	2.38E-04	2	11
-0.59828314	14	1.60E+02	0.83856668	14
0.74923518	10	3.66E-02	0.907775656	10
-0.263199315	25	1.50E+02	0.037934776	25
2	12	7.47E-06	2	12
-0.02180579	2	8.82E-01	0.03621276	2
0.116246769	36	4.26E+00	0.486409951	36
2	21	4.27E-07	2	21
-2	5	6.02E+02	-0.435484077	5
1	21	1.66E-04	1	21

0.836293603	3	1.08E-01	-0.406634322	3
0.741221119	5	9.55E-02	0.348803333	5
-0.225635575	7	3.49E+00	-1	7
-0.940183847	9	1.64E+02	-1	9
-0.024569289	14	3.28E+00	-0.293874792	14
-0.034301317	30	2.13E+01	0.075590486	30
-0.820658523	10	1.39E+02	-0.646353779	10
-1	12	5.27E+03	-0.351740331	12
-0.692744109	7	2.37E+01	-0.142065752	7
0.885673023	11	1.41E-02	2	11
-0.692357031	10	7.07E+01	-0.502586798	10
-0.081136832	7	1.93E+00	0.024622734	7
0.210327949	4	5.51E-01	1	4
0.429337091	8	2.23E-01	1	8
0.69664933	10	4.82E-02	0.524040889	10
0.526302529	2	2.65E-01	0.730920141	2
-0.003229456	12	2.32E+00	0.797827741	12
-0.589333879	6	1.12E+01	-0.114864114	6
-0.040258205	7	1.63E+00	-0.328295399	7
0.666927539	10	5.63E-02	0.313718826	10
0.28150768	6	4.40E-01	-0.224662394	6
0.169134599	18	1.02E+00	0.385058648	18
2	5	3.95E-03	2	5
1	30	4.54E-06	2	30
0.214175021	9	5.96E-01	0.798027294	9
0.260346798	13	4.76E-01	0.64035721	13
-0.185480649	10	4.94E+00	0.095070545	10
0.553303781	13	7.31E-02	1	13
0.382555889	13	2.18E-01	0.833281934	13
0.259361682	11	4.79E-01	0.293221894	11
0.51686416	5	2.02E-01	0.478130358	5
0.062135867	60	5.98E+01	0.331409975	60
1	6	2.89E-02	1	6
-1	10	4.32E+02	-0.119406634	10
0.025652857	7	1.25E+00	0.948974013	7
2	3	1.13E-02	3	3
2	3	5.04E-03	4	3
-0.12054767	3	1.27E+00	-0.514192738	3
-1	7	9.07E+01	-0.224792429	7
0.598524487	19	2.52E-02	1	19
2	11	2.24E-05	2	11
-1	5	7.39E+01	0.121923136	5
-0.527034148	24	2.01E+03	-0.242837306	24
-0.565205515	5	7.48E+00	-0.04131676	5
-0.291104147	2	1.59E+00	0.108403878	2
0.831581636	22	1.73E-03	1	22
0.026371174	1	7.26E-01	0	1

-1	9	7.46E+02	-0.717575997	9
-0.787298203	7	3.50E+01	-1	7
-1	4	7.28E+01	-1	4
-0.296316695	4	2.47E+00	-0.677753712	4
-0.046660579	10	2.38E+00	0.093013758	10
-0.39902593	7	7.11E+00	-0.200859773	7
-0.971150997	9	1.91E+02	-0.581717755	9
-2	14	1.02E+05	-0.675701027	14
-0.458280662	5	5.24E+00	-0.025925561	5
-0.959680161	12	7.30E+02	-0.786390963	12
-0.856700777	12	3.93E+02	0.48221877	12
-0.236308503	2	1.41E+00	0.199467129	2
0.132175087	2	6.30E-01	-0.064011474	2
0.768101881	6	7.19E-02	0.356771487	6
0.949750142	17	2.02E-03	1	17
1	9	2.87E-03	2	9
-0.770734125	10	1.07E+02	-0.599354129	10
-0.697162017	7	2.42E+01	-2	7
1	15	6.17E-04	2	15
0.169899216	7	6.89E-01	1	7
1	33	1.00E-05	1	33
-0.816152007	7	3.94E+01	-0.137355234	7
-0.016468486	11	2.26E+00	-0.493132953	11
0.32309985	21	2.63E-01	0.59693267	21
0.448532606	9	1.90E-01	1	9
-0.200400914	9	4.48E+00	-0.207996367	9
0.530971768	10	1.15E-01	0.184524376	10
0.9817101	15	2.72E-03	2	15
0.480415328	12	1.27E-01	2	12
0.830590883	26	7.32E-04	0.966191272	26
1	11	9.87E-04	2	11
0.142701774	2	6.15E-01	0.066366462	2
-0.457544634	1	1.74E+00	0.067527946	1
0.189285885	4	5.87E-01	0.268337002	4
-0.682917598	2	3.76E+00	0.609181306	2
-0.772298381	5	1.49E+01	-0.911293084	5
-0.928275083	6	3.96E+01	-0.521564846	6
-0.92184622	4	1.57E+01	-1	4
0	1	7.61E-01	0	1
0.084573678	1	6.53E-01	0	1
0.352757683	2	3.88E-01	0.698622093	2
0.95459128	3	7.96E-02	0.405861802	3
-0.131131991	5	1.76E+00	-0.263064986	5
-0.001472698	3	9.33E-01	-0.061971432	3
0	1	7.61E-01	0	1
0.014572257	2	8.15E-01	0	2
-0.032657535	6	1.41E+00	-0.509715888	6

-0.131656164	5	1.76E+00	-0.255764679	5
1	12	9.47E-04	0.947298612	12
0.78890272	6	6.66E-02	1	6
-0.071405756	3	1.12E+00	-0.189373514	3
1	29	2.18E-05	1	29
0.304521324	23	3.04E-01	0.231380599	23
2	5	4.07E-04	2	5
2	9	1.29E-05	3	9
0.2293576	13	5.80E-01	0.702792316	13
0.900497068	8	2.70E-02	-0.168068495	8
-0.494142386	6	7.88E+00	-1	6
-0.615418827	16	3.52E+02	-0.466815327	16
0.438256362	12	1.63E-01	0.621328818	12
0.287090106	4	4.39E-01	0.403883713	4
0.043527571	10	1.49E+00	-0.585491255	10
-0.106698244	14	5.73E+00	-0.299368087	14
-0.354646837	6	4.69E+00	-0.227873616	6
0.521299784	6	1.80E-01	0.544704009	6
-0.016632722	6	1.33E+00	-0.293542501	6
-0.572031503	6	1.05E+01	-1	6
0.779517316	14	1.41E-02	1	14
1	9	4.59E-03	0.630293284	9
-0.631599513	2	3.36E+00	-0.152663619	2
0	1	7.61E-01	0	1
0.875439197	13	9.32E-03	2	13
-0.070434899	13	3.95E+00	0.160120882	13
-0.001776774	18	4.20E+00	0.546370384	18
-0.405785875	3	2.64E+00	-0.186705572	3
0.933589902	17	2.30E-03	2	17
-0.22320208	4	1.99E+00	0.390947535	4
0.467408104	5	2.38E-01	0.83829957	5
-0.061816412	6	1.58E+00	-0.762554345	6
1	9	2.37E-03	2	9
0.811324255	33	2.09E-04	0.856323251	33
-0.03791825	5	1.29E+00	0.757823923	5
-0.66776713	9	4.36E+01	-0.21483457	9
-0.092139609	3	1.18E+00	-0.007813313	3
0.157818845	21	1.26E+00	0.108281319	21
2	3	1.06E-02	0.471382818	3
0.025126274	1	7.28E-01	-0.083262892	1
-0.223918169	4	1.99E+00	0.456040861	4
1	14	2.03E-04	1	14
2	9	2.90E-05	3	9
0.310332254	11	3.59E-01	0.873057617	11
0.119831379	30	2.92E+00	-0.273036596	30
-0.100635541	15	6.31E+00	-1	15
-0.043483255	4	1.17E+00	-1	4

-0.189830628	7	3.02E+00	-2	7
-0.080346059	5	1.48E+00	-0.423865355	5
-0.656580596	3	5.04E+00	-0.037432954	3
0.426694192	4	2.91E-01	0.72125363	4
-0.062665126	8	2.03E+00	-0.17552629	8
0.750722571	5	9.25E-02	0.963597087	5
2	4	1.20E-03	2	4
-0.177873803	9	4.01E+00	0.145508147	9
2	9	1.64E-05	3	9
2	18	6.41E-09	3	18
1	12	1.36E-03	2	12
0.969572242	27	1.15E-04	2	27
0.377021636	7	2.95E-01	-0.201510973	7
-0.264357976	21	6.79E+01	0.075367273	21
-0.611387664	6	1.22E+01	-0.825166244	6
0.335228867	3	3.92E-01	0.86852669	3
2	8	1.24E-03	2	8
-0.064073973	25	1.68E+01	-0.190517551	25
0.475359306	4	2.52E-01	0.025790096	4
-0.579209592	8	2.05E+01	-0.861530191	8
-0.82547492	13	4.93E+02	-0.863372087	13
-1	3	2.03E+01	-1	3
-1	3	1.77E+01	-0.069317244	3
-1	12	7.96E+03	-0.919833433	12
0.011071244	14	2.58E+00	-0.115811561	14
-0.003750719	4	1.04E+00	0.060259001	4
0.055202107	4	8.72E-01	-0.043756614	4
0.071757971	13	1.59E+00	0.829218274	13
0.474207271	5	2.33E-01	0.90134534	5
0.845186887	7	4.32E-02	1	7
-1	6	2.49E+02	-0.48678117	6
-0.579311391	4	5.69E+00	-2	4
0.499929678	1	3.08E-01	0.147423345	1
-0.090936387	16	6.73E+00	0.060341806	16
-0.307997104	8	6.09E+00	-0.021251443	8
1	11	1.23E-03	2	11
0.06173715	10	1.35E+00	-9.42E-06	10
-0.173601915	3	1.45E+00	-0.009309649	3
0.836498541	4	8.66E-02	0.575291538	4
-0.126310043	9	3.12E+00	0.080937162	9
0.836748777	5	6.94E-02	1	5
0.037335446	4	9.19E-01	0.330654713	4
0.214989025	31	8.71E-01	0.476429884	31
0.552495091	7	1.43E-01	0.834374987	7
-0.553371586	8	1.83E+01	0.619404034	8
-0.740438368	8	4.23E+01	-0.597171617	8
0.405399486	6	2.77E-01	0.711975837	6

0.150313638	6	7.16E-01	0.250461341	6
0.393748123	15	1.83E-01	1	15
-0.718990388	33	4.45E+05	-0.358405433	33
1	35	3.40E-06	1	35
0.100618463	15	1.49E+00	-0.125548942	15
0.462219053	8	1.92E-01	0.792642586	8
0.598944324	16	3.71E-02	0.616660884	16
0.157995746	3	6.19E-01	-0.013071185	3
0.236848055	8	5.29E-01	1	8
1	8	1.17E-02	1	8
0.29021531	5	4.30E-01	0.881973694	5
0.041199999	3	8.36E-01	0.359549988	3
0.033824154	1	7.16E-01	0.27220398	1
0.641458758	15	3.11E-02	3	15
0.660647573	2	1.98E-01	0.217002574	2
0.056178842	13	1.76E+00	0.184137869	13
0.029271769	1	7.22E-01	0	1
0.016527201	2	8.11E-01	0	2
0.1428701	2	6.15E-01	0.110973864	2
0.716096927	3	1.47E-01	0.899588149	3
0.777074823	2	1.53E-01	0.515766212	2
0.68210884	10	5.20E-02	0.737340518	10
-0.355256101	15	3.91E+01	0.068664326	15
-0.494076921	24	1.41E+03	-0.78299874	24
0.783432427	3	1.24E-01	0.546118823	3
0.219834295	2	5.20E-01	0.038614798	2
-0.018672738	2	8.76E-01	0.03128464	2
-0.122018105	3	1.27E+00	0.283202055	3
0.613062762	61	7.80E-05	0.750006467	61
2	9	1.35E-04	3	9
-0.506552621	5	6.15E+00	0.293512116	5
0.371174329	23	1.54E-01	0.360695891	23
-1	22	1.59E+06	-1	22
-0.866267648	3	8.64E+00	-0.365451216	3
0.413229271	12	1.90E-01	0.48626368	12
0.000844943	5	1.13E+00	-0.199730037	5
-0.37158824	2	1.90E+00	-0.64991056	2
-0.175182737	1	1.05E+00	-0.256942459	1
-0.741215293	6	1.97E+01	-0.981602533	6
-1	12	2.10E+03	-1	12
0.505829997	3	2.53E-01	-0.295457731	3
-0.172076035	2	1.23E+00	-0.025053188	2
-1	24	1.58E+06	-1	24
-0.572791245	6	1.06E+01	-0.943831139	6
-1	5	3.90E+01	-0.952064982	5
-0.915740505	20	2.04E+04	-0.99263159	20
-1	8	1.55E+02	-0.449969521	8

0.711956112	58	1.13E-05	0.984343625	58
2	13	3.90E-05	2	13
-0.449613678	7	8.75E+00	-0.111640134	7
0.19821198	9	6.44E-01	0.2858868	9
-0.217220569	1	1.13E+00	0.858961326	1
-0.144499669	10	3.98E+00	0.769631494	10
1	19	1.66E-04	1	19
1	7	5.94E-03	0.761947571	7
0.116236903	8	9.08E-01	0.090719626	8
0.491614251	42	8.40E-03	0.61156702	42
0.007705583	3	9.11E-01	0.825809566	3
-0.36327182	15	4.14E+01	0.512752618	15
0.619168247	12	5.50E-02	2	12
0.394478789	11	2.24E-01	0.31014037	11
2	7	6.31E-04	2	7
3	18	2.74E-09	3	18
0.643911295	11	5.49E-02	1	11
0.062039505	31	6.63E+00	0.431524165	31
2	7	8.72E-04	2	7
-0.435125943	14	5.30E+01	0.908898608	14
1	28	2.24E-07	2	28
1	38	9.59E-09	2	38
0.500517403	21	4.92E-02	0.513446222	21
3	20	2.57E-10	3	20
0.17529044	12	7.94E-01	-0.128239051	12
0.101554306	1	6.34E-01	0.102930463	1
3	41	2.50E-18	3	41
2	3	3.49E-03	2	3
1	11	2.71E-03	2	11
0.449756404	6	2.35E-01	0.914221055	6
0.016959916	1	7.38E-01	-4.21E-05	1
-0.592021024	7	1.57E+01	1	7
0.084305191	3	7.48E-01	0.165897943	3
-0.031623152	4	1.13E+00	0.300991636	4
0.211857012	10	6.14E-01	0.724744592	10
0.932398305	16	3.00E-03	0.808523611	16
2	7	5.10E-04	2	7
-0.018085184	6	1.34E+00	-0.081076971	6
-0.443373816	6	6.52E+00	0.034799801	6
-0.320803013	8	6.44E+00	-0.605723882	8
-0.147799339	10	4.05E+00	1	10
-0.331236425	9	8.47E+00	0.807783302	9
0.445247516	8	2.08E-01	-0.499868329	8
-0.001968662	1	7.64E-01	-0.133763319	1
0.273034654	10	4.45E-01	0.605193293	10
0.267743235	22	4.43E-01	1	22
0.008431275	10	1.79E+00	0.039399593	10

0.633749337	11	5.81E-02	0.703561056	11
0.580433429	14	5.44E-02	0.690272295	14
-0.619420645	6	1.26E+01	-1	6
-0.05256713	9	2.18E+00	-0.402704551	9
0.309460875	13	3.48E-01	1	13
0.129463152	5	7.36E-01	0.050573535	5
0.334270006	7	3.51E-01	0.586658985	7
2	1	2.75E-02	2	1
0.822379012	8	3.83E-02	0.567342587	8
-0.281982282	11	1.01E+01	-0.824343697	11
-0.684151347	6	1.60E+01	-0.592222195	6
-0.752947328	23	1.49E+04	-0.473676328	23
0.877907631	53	7.35E-07	1	53
0.355139696	29	1.46E-01	0.261582983	29
0.805959853	4	9.48E-02	-0.474601514	4
0.488299556	1	3.15E-01	0.135352509	1
0.582799777	5	1.62E-01	0.15542539	5
-1	3	1.72E+01	-0.448724341	3
0.585734254	14	5.25E-02	-0.173867937	14
0.40486074	12	2.00E-01	0.341552777	12
-0.989991179	6	4.98E+01	-1	6
-2	2	2.75E+01	-2	2
-0.662367929	2	3.59E+00	-0.512222071	2
0.564910845	11	8.57E-02	2	11
-0.184867113	20	2.70E+01	-0.207517263	20
0.784294448	37	1.37E-04	1	37
2	22	4.15E-07	3	22
0.245346027	8	5.09E-01	0.848633296	8
-1	7	3.71E+02	-0.684647352	7
-0.52220976	2	2.64E+00	-0.182946222	2
2	17	1.58E-05	2	17
3	9	1.47E-06	3	9
-0.161407321	2	1.20E+00	0.751708971	2
-0.165841355	3	1.42E+00	-0.093680196	3
-0.443326372	18	1.64E+02	0.147082667	18
0.172661146	7	6.82E-01	0.296913104	7
0.768805137	13	1.84E-02	0.877490995	13
0.013497196	4	9.86E-01	0.394215509	4
-0.213471488	6	2.77E+00	-0.51823535	6
0.407935916	17	1.48E-01	1	17
0.263699284	4	4.71E-01	0.989375426	4
0.697137475	7	7.93E-02	1	7
2	18	4.76E-06	3	18
0.028239277	4	9.44E-01	0.368744945	4
0.330764914	34	1.73E-01	0.710268316	34
0.016968833	9	1.56E+00	0.401008237	9
-0.532330842	20	6.31E+02	-0.218597814	20

-0.192988531	18	2.06E+01	-0.479355435	18
-0.348286036	14	2.94E+01	-0.149926627	14
0.081332669	1	6.57E-01	-4.87E-05	1
1	10	1.13E-03	1	10
0.026539197	3	8.68E-01	0.803858838	3
0.150293554	3	6.31E-01	0.486613038	3
0.110660809	19	1.75E+00	0.65159697	19
-0.202305883	5	2.23E+00	0.346230375	5
0.568288147	6	1.51E-01	1	6
0.901424715	8	2.68E-02	2	8
0.0245749	14	2.35E+00	-0.06780006	14
-0.188460518	13	8.40E+00	0.111869235	13
-0.359227983	12	1.97E+01	0.551284238	12
-0.653188479	9	4.06E+01	-0.987970025	9
-0.820006213	23	2.96E+04	-0.592620211	23
-0.194353114	2	1.29E+00	-0.150772188	2
2	9	4.02E-04	3	9
-0.197723205	9	4.42E+00	1	9
0.870319029	11	1.53E-02	1	11
-0.637680982	7	1.89E+01	-0.59563926	7
-0.229185497	10	6.21E+00	0.325525529	10
1	208	7.37E-29	2	208
0.165173077	1	5.65E-01	1	1
-0.421865129	3	2.75E+00	-2	3
-1	6	2.87E+02	-0.801433662	6
0.278486894	8	4.39E-01	0.992916986	8
-0.345502238	1	1.42E+00	0.509135633	1
0.479563335	8	1.78E-01	1	8
0.898596242	11	1.31E-02	0.970113413	11
1	19	1.65E-05	2	19
0.697544224	38	4.48E-04	1	38
-0.160033318	10	4.32E+00	0.23683478	10
0.164277539	4	6.32E-01	0.658232524	4
1	27	2.82E-05	2	27
-0.157593758	5	1.92E+00	1	5
0.724342928	12	2.92E-02	0.587822679	12
-0.721865996	4	8.67E+00	-0.144356415	4
0.408016513	18	1.40E-01	0.888376927	18
0.004454519	6	1.23E+00	0.187193597	6
0.027686314	7	1.24E+00	0.624993594	7
0.561971916	23	2.19E-02	2	23
2	8	2.40E-04	3	8
1	5	1.11E-02	1	5
0.290205474	6	4.26E-01	0.844937559	6
0.221650362	16	6.38E-01	1	16
-0.010292773	10	1.97E+00	0.452950743	10
0.839290489	8	3.55E-02	2	8

0.579261787	28	9.98E-03	1	28
-0.541522902	15	1.48E+02	0.451277616	15
-0.233088145	5	2.47E+00	0.183563069	5
1	4	3.59E-02	2	4
-0.063816425	30	3.11E+01	0.372660828	30
0.120983441	6	7.99E-01	-0.457146178	6
0.805628663	8	4.13E-02	1	8
0.362985601	12	2.57E-01	1	12
0.742805079	16	1.25E-02	1	16
0.466926811	11	1.49E-01	1	11
0.425151953	18	1.21E-01	1	18
0.222537762	14	6.15E-01	2	14
0.611341181	17	2.95E-02	2	17
0.022648289	15	2.61E+00	-0.339822458	15
-1	17	5.04E+05	-1	17
0.530117962	21	3.72E-02	0.982170449	21
-0.026950648	5	1.24E+00	0.0586218	5
0.896999831	26	3.44E-04	1	26
2	27	4.17E-09	2	27
2	11	5.34E-05	3	11
-0.074255454	3	1.13E+00	-0.453950503	3
0.068980471	10	1.30E+00	-0.227444147	10
-0.145621054	8	2.94E+00	-0.297256907	8
-0.152195265	14	7.80E+00	-0.130745989	14
-0.127813425	3	1.29E+00	-0.217224564	3
0.120311644	5	7.59E-01	0.008149924	5
0.258052407	7	4.80E-01	0.074060128	7
0	6	1.25E+00	0.258207907	6
1	6	1.20E-02	3	6
2	5	4.84E-03	2	5
-0.167417293	3	1.43E+00	0.660251603	3
1	15	1.10E-03	1	15
1	3	3.45E-02	-0.179348659	3
2	2	1.76E-02	0.158723987	2
0.567762128	25	1.63E-02	0.314290044	25
0.832054318	6	5.67E-02	1	6
-0.291475303	2	1.59E+00	0.459235598	2
0.97759665	14	3.69E-03	2	14
1	3	2.23E-02	2	3
-0.018358041	10	2.05E+00	0.95553928	10
-0.532431436	6	9.08E+00	0.910927581	6
-0.083904401	8	2.23E+00	0.067080204	8
-0.886365647	7	5.25E+01	-0.067953463	7
0.078963017	10	1.23E+00	0.520297977	10
0.382254998	20	1.58E-01	0.251766716	20
0.012537742	9	1.59E+00	-0.39239209	9
-0.303135587	9	7.39E+00	-0.017395313	9

-0.737948997	9	6.13E+01	0.278371234	9
2	7	2.51E-03	1	7
2	28	4.54E-08	2	28
-1	2	1.02E+01	-0.017212532	2
-1	18	1.06E+05	-1	18
0.614249032	25	9.79E-03	1	25
1	26	7.13E-06	2	26
0.907506537	38	1.58E-05	2	38
-0.487836465	1	1.84E+00	-0.600847535	1
0.052672017	10	1.42E+00	0.19339706	10
-0.128771164	9	3.16E+00	0.538776815	9
-2	4	9.59E+01	-2	4
0.740015821	4	1.15E-01	0.336111351	4
0.277475199	4	4.52E-01	0.985266412	4
-0.21404873	14	1.19E+01	0.065412175	14
2	3	1.40E-02	1	3
0.114903748	1	6.18E-01	0.455412616	1
0.214420845	19	7.10E-01	0.507233219	19
0.63359221	21	1.40E-02	0.767167014	21
-0.37402725	11	1.69E+01	0.398059384	11
-0.095245816	10	3.08E+00	-0.577795926	10
0.148496065	10	8.56E-01	0.091392513	10
0.308835695	18	3.19E-01	0.359705473	18
1	2	4.07E-02	3	2
-0.002222687	6	1.26E+00	-0.13267365	6
-0.191428466	7	3.04E+00	-0.463285139	7
0.212376276	5	5.58E-01	0.070043777	5
-0.481275901	3	3.21E+00	-0.099831241	3
0.454350469	5	2.49E-01	0.52547491	5
1	5	3.11E-02	0.795454824	5
0.916174044	29	1.31E-04	2	29
-0.908740548	12	5.38E+02	-0.572817726	12
-0.472069494	9	1.68E+01	-1	9
-0.047455937	2	9.33E-01	-1	2
-1	17	1.73E+05	-0.923369847	17
0.830183718	38	5.41E-05	1	38
0	5	1.13E+00	0	5
0	4	1.03E+00	0	4
0	24	7.53E+00	0	24
0	5	1.13E+00	0	5
-0.013923864	4	1.07E+00	-0.023211899	4
-0.392180317	4	3.27E+00	-0.51128553	4
-0.529395578	14	1.00E+02	0.111543975	14
-1	9	7.43E+02	-0.42515037	9
-0.027661901	3	9.98E-01	0	3
-0.496158927	9	1.89E+01	-1	9
-0.009380916	2	8.59E-01	0	2

-0.000322443	3	9.30E-01	-0.03217547	3
-0.629781451	4	6.61E+00	-1	4
-0.983452371	11	5.24E+02	-0.209317216	11
0.462676484	4	2.61E-01	1	4
-0.534961717	10	3.09E+01	-0.401593829	10
0.766888439	12	2.26E-02	0.189489629	12
0.451184215	23	6.79E-02	0.601554337	23
-0.506423403	12	4.78E+01	-0.889384048	12
0.456734926	6	2.29E-01	-0.498277891	6
0.638614268	5	1.35E-01	0.395759195	5
0.816649197	18	4.69E-03	2	18
-0.371457492	3	2.42E+00	0.440224753	3
-0.732177159	17	1.24E+03	-0.522487138	17
-0.374757454	3	2.44E+00	-0.69326833	3
-0.59673278	20	1.13E+03	-0.80136835	20
0.076660776	4	8.18E-01	0.185880264	4
0.079721576	5	8.69E-01	0.401734675	5
0.137651924	15	1.15E+00	-0.033775107	15
1	25	6.60E-06	1	25
0.69032199	15	2.19E-02	0.292944205	15
0.633565486	27	5.96E-03	0.81221187	27
0.186270722	37	1.51E+00	0.663221652	37
-0.267482278	2	1.51E+00	-0.252839196	2
0.039847349	27	6.36E+00	0.210458153	27
0.624055042	75	8.51E-06	1	75
2	1	1.80E-02	1	1
-0.237477978	3	1.71E+00	0.471798817	3
-0.628529189	2	3.34E+00	-0.604271625	2
-0.209431695	20	3.38E+01	0.070361873	20
0.587614846	44	1.22E-03	0.551555085	44
0.246511399	5	4.98E-01	0.147940436	5
0.714924283	17	1.30E-02	1	17
1	14	6.97E-04	1	14
-0.378753905	6	5.13E+00	-0.896938079	6
-0.032903924	3	1.01E+00	-0.129218853	3
-1	11	1.38E+03	-1	11
-1	8	2.63E+02	-1	8
0.062775427	7	1.07E+00	0.178496762	7
-0.595911776	20	1.12E+03	-0.179175869	20
-0.677407738	13	1.91E+02	-1	13
1	10	7.35E-03	1	10
0.056647913	8	1.19E+00	1	8
-0.994273672	2	7.44E+00	-0.534872389	2
0.856011736	32	1.40E-04	1	32
0.132176894	7	8.05E-01	-0.100377663	7
0	1	7.61E-01	-0.051991865	1
-0.428272865	1	1.65E+00	-0.049152062	1

-0.129891907	3	1.30E+00	-0.062736944	3
0.55238219	65	2.24E-04	0.839040972	65
0.414236004	7	2.53E-01	1	7
1	15	2.30E-03	1	15
0.582577206	10	8.77E-02	0.626158099	10
0.150723451	9	8.11E-01	0.179168837	9
0.140518189	12	9.78E-01	0.772836253	12
0.41298226	24	9.46E-02	0.149875331	24
-0.102437244	7	2.11E+00	-0.25978756	7
0.377206499	5	3.22E-01	0.595591805	5
-0.801513711	9	8.35E+01	-0.570405938	9
-0.205660776	7	3.22E+00	0.339569102	7
0.238943339	11	5.37E-01	-0.107013734	11
0.824707562	14	1.04E-02	1	14
0	2	8.41E-01	0	2
0	3	9.29E-01	0	3
2.50E-05	3	9.29E-01	0	3
0.02268086	1	7.31E-01	0	1
0.360117575	2	3.82E-01	0	2
0.042279227	1	7.05E-01	0	1
0.009768186	2	8.23E-01	0.024656244	2
0.295621072	9	4.01E-01	0.366081965	9
0.463533556	7	2.07E-01	0.53134152	7
-0.593676124	7	1.58E+01	0.565886509	7
-1	10	1.03E+03	-0.896610735	10
-0.126549824	4	1.49E+00	-0.020356646	4
-0.904601843	12	5.24E+02	-0.044341389	12
0.172706692	6	6.59E-01	0.425941106	6
0.425823511	3	3.11E-01	0.916405328	3
-0.154308404	3	1.38E+00	0	3
0	5	1.13E+00	0	5
0	3	9.29E-01	0.054026738	3
-0.146172303	3	1.35E+00	0.393088984	3
0	5	1.13E+00	0	5
-0.041615219	2	9.22E-01	-0.003917371	2
-0.240707495	4	2.09E+00	-0.44547765	4
-0.713214652	5	1.23E+01	-0.055612909	5
-0.232859631	2	1.40E+00	-0.328943554	2
-0.018955713	3	9.76E-01	-0.022346141	3
-0.002738148	3	9.36E-01	-0.459557199	3
-0.000188822	2	8.42E-01	-0.02772918	2
-0.549760507	7	1.32E+01	-0.273274475	7
-0.52004	7	1.17E+01	-0.377112718	7
-0.559983646	9	2.58E+01	-0.458061309	9
-0.422667626	4	3.58E+00	-0.212765618	4
-0.150597988	4	1.60E+00	-0.228009236	4
0.046167823	6	1.06E+00	0	6

0.016207411	7	1.30E+00	-0.397364679	7
0.184793845	8	6.68E-01	0.426165738	8
-0.212608016	5	2.31E+00	-1	5
-0.065522595	7	1.81E+00	-0.676719409	7
0.726117182	62	3.98E-06	1	62
-0.518063171	9	2.10E+01	-0.380736474	9
0.306890713	15	3.41E-01	0.794453652	15
-0.508790115	2	2.57E+00	-0.858918718	2
-0.150470216	2	1.17E+00	-0.630438629	2
-0.395578745	4	3.31E+00	-0.561281972	4
-0.352035172	9	9.37E+00	-0.162749693	9
-0.599864603	4	6.05E+00	-0.845380054	4
-0.508202879	7	1.11E+01	-0.138804227	7
0.106835821	4	7.49E-01	0.417670909	4
-1	4	5.41E+01	-0.572566878	4
-0.710835439	9	5.37E+01	0.731160649	9
0.254182547	4	4.84E-01	-0.427176669	4
-0.006398099	3	9.45E-01	-0.045932658	3
-0.210832683	6	2.75E+00	0.27415874	6
-0.63714119	13	1.48E+02	-0.133108816	13
0.324673549	15	3.00E-01	0.773769842	15
1	21	1.24E-04	1	21
0.678072891	4	1.38E-01	-0.161991515	4
0.659334139	7	9.26E-02	0.117523041	7
-0.16171756	8	3.16E+00	-0.201373205	8
0.853906814	7	4.17E-02	0.336161324	7
0.014611751	11	1.90E+00	1	11
0.077791472	2	7.09E-01	0.068673979	2
0.29656604	6	4.16E-01	0.086340281	6
0.313336386	15	3.26E-01	0.301004262	15
-0.409407274	8	9.59E+00	0.788380502	8
0.242546947	18	5.52E-01	0.695689856	18
0.747423977	4	1.13E-01	1	4
-0.081304459	5	1.49E+00	-0.185954452	5
0.501835426	16	7.71E-02	1	16
0	14	2.78E+00	0	14
0.055239517	14	1.91E+00	0.09372396	14
0.084320947	7	9.79E-01	0.221061207	7
0.282483495	4	4.45E-01	0.564302649	4
0.348053444	10	3.00E-01	0.467594424	10
-0.469778619	37	4.11E+04	0.018470218	37
0.090440104	4	7.86E-01	0.679705096	4
0.389077852	8	2.67E-01	0.086306946	8
0.190356849	9	6.69E-01	0.585821758	9
-0.280970145	3	1.92E+00	-0.94969448	3
-1	3	3.39E+01	-2	3
-0.253125496	14	1.55E+01	-0.377368494	14

-0.470817002	13	5.11E+01	-0.531326765	13
0.016522795	2	8.11E-01	-1.95E-05	2
-0.355224683	16	4.94E+01	-0.120597343	16
-0.013297097	5	1.19E+00	-0.011174956	5
0.404501526	7	2.63E-01	0.16291693	7
0.008485475	29	1.11E+01	0.027816332	29
-0.271559122	12	1.17E+01	-0.214419115	12
0.466835501	10	1.61E-01	0.911716712	10
3	11	2.08E-07	3	11
0.484525379	17	8.06E-02	2	17
-0.429806976	4	3.66E+00	0.726008238	4
-0.332189429	9	8.51E+00	0.067910205	9
0.25191304	10	4.97E-01	0.372399108	10
0.358916074	5	3.42E-01	0.415668588	5
1	11	4.08E-03	1	11
-0.256570389	5	2.67E+00	0.000123981	5
-0.027738008	9	1.93E+00	-0.079425932	9
0.057073273	33	8.28E+00	0.62087331	33
0.205409366	24	8.54E-01	0.048282985	24
-0.030804754	11	2.45E+00	0.074222124	11
-0.106692995	27	3.55E+01	0.63320454	27
1	9	8.93E-03	1	9
2	6	1.85E-04	2	6
0.787404604	11	2.45E-02	0.877712745	11
-0.097291562	19	1.06E+01	0.044978725	19
0.71895934	11	3.60E-02	1	11
0.508034696	8	1.57E-01	0.849906907	8
1	3	4.03E-02	0.032691327	3
1	12	4.51E-03	1	12
-0.281242404	16	2.83E+01	-0.918496845	16
0.220112177	3	5.27E-01	-0.536080488	3
-0.307907836	24	1.97E+02	-0.452179294	24
-0.363544686	11	1.60E+01	-0.249014023	11
-0.410944021	10	1.61E+01	-0.18988532	10
0	4	1.03E+00	0.117906881	4
0.410277565	13	1.83E-01	0.256733297	13
2	9	7.43E-05	1	9
2	2	6.68E-03	2	2
1	2	7.14E-02	0.625689216	2
0.334028179	3	3.93E-01	0.312797525	3
-0.073930464	11	3.13E+00	0.145298347	11
0.872808852	5	6.16E-02	0.398960735	5
2	12	5.98E-05	2	12
0.032150459	8	1.32E+00	0.219831544	8
0.133839867	2	6.27E-01	0.041202068	2
2	2	5.46E-03	1	2
2	6	3.28E-03	1	6

0.166420083	5	6.51E-01	0.392806919	5
0.250749662	16	5.12E-01	0.577903419	16
-1	10	1.86E+03	-0.552303348	10
-0.223714043	7	3.47E+00	0.03244016	7
0.102007042	13	1.31E+00	-0.12928638	13
0.013313768	9	1.58E+00	0.070454538	9
0.17549538	11	7.67E-01	0.102008636	11
-0.008091402	10	1.95E+00	-0.07187089	10
-0.098912377	15	6.23E+00	0.04359503	15
-0.706825581	4	8.30E+00	-0.181852657	4
-0.701323406	11	1.07E+02	-0.927433835	11
-0.406431601	43	7.08E+04	-0.330905236	43
0.299376057	19	3.39E-01	0.082926584	19
-0.145172083	3	1.35E+00	-0.015732678	3
-0.02137754	1	7.91E-01	0	1
-0.105843642	8	2.46E+00	-0.200128045	8
-1	11	8.38E+02	-1	11
-0.360426391	8	7.70E+00	-1	8
-0.556735563	7	1.36E+01	-1	7
0.187720649	90	6.48E+00	0.446082584	90
0.135403934	5	7.22E-01	0.089309929	5
0.521759189	17	6.00E-02	0.391454046	17
0.218836609	2	5.21E-01	2	2
0.052419322	7	1.12E+00	0.59254038	7
0.088217953	14	1.53E+00	0.052185321	14
0.202880044	7	6.02E-01	0.217107342	7
-0.057843115	12	3.22E+00	0.103013961	12
0.063840143	51	2.92E+01	0.087137255	51
0.028017375	13	2.10E+00	-0.392433914	13
0.558021938	28	1.29E-02	0.918059666	28
0.918577833	58	8.66E-08	1	58
-0.238875183	5	2.52E+00	-0.163998925	5
-1	7	1.39E+02	-0.284677985	7
-0.006626711	4	1.05E+00	0	4
-0.057759223	4	1.22E+00	0	4
-0.166794843	3	1.43E+00	-0.043858528	3
-0.56293145	4	5.42E+00	-0.787789222	4
-0.101684372	2	1.05E+00	-0.024018923	2
0.207058389	4	5.57E-01	0	4
-0.551965675	2	2.82E+00	-0.136676256	2
-0.958927976	7	7.07E+01	-0.707541637	7
-0.588775596	5	8.10E+00	0.034614341	5
0.515052804	7	1.67E-01	-0.000229442	7
0	4	1.03E+00	-0.209043422	4
-0.149548066	3	1.37E+00	0	3
-0.42974421	15	6.66E+01	-0.392843763	15
0	7	1.38E+00	0.149401567	7

-0.32425583	7	5.23E+00	-0.792708583	7
0.551398146	10	1.03E-01	0.760008504	10
0.173291959	3	5.95E-01	0.165355352	3
-0.320462866	2	1.70E+00	0	2
0.38181055	5	3.17E-01	0	5
0.003792407	2	8.34E-01	0	2
-0.048135056	1	8.31E-01	-0.079580662	1
-0.00862878	3	9.50E-01	-0.002375727	3
-0.503624331	10	2.62E+01	-0.634947229	10
-0.26411144	2	1.50E+00	0.072743086	2
-0.002906925	4	1.04E+00	0.256071963	4
0.044416691	8	1.25E+00	0.514670142	8
-0.175137166	9	3.96E+00	0.277173799	9
-0.401160955	7	7.18E+00	-1	7
-0.651332916	11	8.07E+01	-0.882835026	11
-1	7	1.48E+02	-1	7
0.105628041	9	1.01E+00	0.172082032	9
0.11426337	4	7.32E-01	0	4
-0.546021814	4	5.16E+00	-0.453465319	4
0.269442764	16	4.45E-01	0.251694087	16
-0.953640163	7	6.92E+01	-0.764537716	7
-0.620059946	3	4.58E+00	-0.219093757	3
-0.201179888	40	1.07E+03	0.086278691	40
0	4	1.03E+00	0.003657996	4
0.250402012	5	4.92E-01	0.090921643	5
1	5	1.21E-02	0.47450894	5
0.921913885	14	5.38E-03	2	14
0.84215317	12	1.44E-02	0.956261708	12
0.85882479	4	8.11E-02	0.956706806	4
-0.188488519	4	1.79E+00	0.032276045	4
-0.038470995	7	1.62E+00	-0.801079117	7
0.003054209	16	3.32E+00	0.120430702	16
-0.155737076	3	1.39E+00	0	3
-0.06190438	6	1.58E+00	-0.31756562	6
-0.175053311	9	3.96E+00	-0.00784481	9
-0.018443599	26	1.13E+01	0.118726943	26
-0.256214106	7	3.96E+00	0.933252068	7
0.046154096	6	1.06E+00	0	6
0.045227397	2	7.62E-01	-0.052703695	2
0.378146293	13	2.24E-01	0.214107928	13
-0.110647815	4	1.42E+00	0.024585972	4
2	2	5.27E-03	2	2
2	12	4.15E-05	3	12
2	29	8.96E-13	3	29
-0.038595673	9	2.04E+00	0.168262853	9
-0.072382209	11	3.10E+00	-1.51E-05	11
0.130919065	56	9.19E+00	0.112988116	56

0.751349066	55	7.85E-06	0.936847317	55
0.474169935	6	2.15E-01	0.568387801	6
-0.001819519	9	1.70E+00	-0.290969063	9
0.316592448	6	3.86E-01	-0.545498202	6
0.000551852	30	1.36E+01	0.052523195	30
0.190224022	5	6.01E-01	0	5
0.078338255	7	1.00E+00	-0.138766588	7
-0.173679928	6	2.39E+00	0.128052838	6
-0.444225789	10	1.92E+01	0.7824643	10
-0.038884604	28	1.80E+01	0.15634003	28
-0.119279591	1	9.45E-01	-0.102175039	1
1	52	1.60E-08	2	52
2	23	1.39E-07	2	23
0.063473027	15	1.95E+00	0.247882411	15
0.987480194	9	1.38E-02	2	9
0.917725586	25	3.50E-04	0.797057917	25
-1	4	3.39E+01	-0.291772427	4
-0.01906913	1	7.88E-01	-0.03178936	1
-0.229045404	4	2.02E+00	-0.276826765	4
0.638243876	25	7.52E-03	1	25
-0.048135056	1	8.31E-01	-0.079580662	1
-0.177064589	5	2.05E+00	-0.367523915	5
-0.407221062	5	4.42E+00	-0.188275728	5
-0.013908379	5	1.19E+00	0	5
-0.374652191	14	3.52E+01	-0.791490187	14
-0.630214005	9	3.63E+01	-0.006592438	9
-0.220539121	7	3.42E+00	-0.138584387	7
-0.464084051	9	1.62E+01	-0.346596795	9
-0.250286417	8	4.70E+00	-0.337731039	8
0.093539464	3	7.30E-01	-1	3
0.142702062	11	9.23E-01	0.591298937	11
0.301097479	5	4.15E-01	0.409880564	5
-0.246506705	18	3.21E+01	-0.400246152	18
-0.426103241	5	4.70E+00	0.223407115	5
-0.766073018	13	3.37E+02	-0.688377054	13
-0.897623746	11	3.23E+02	-0.376052038	11
-1	16	4.89E+04	-2	16
0.376540289	8	2.83E-01	0.109078007	8
0.000919213	5	1.13E+00	0.001115294	5
0	3	9.29E-01	-0.2136605	3
-0.092873919	7	2.03E+00	-0.152705616	7
0	4	1.03E+00	0	4
0	5	1.13E+00	-0.228508666	5
0.053622312	9	1.30E+00	0.36320803	9
1	25	1.30E-05	2	25
0.143284002	62	9.07E+00	0.427280495	62
0.058247249	5	9.34E-01	0.030520531	5

-0.561326399	10	3.55E+01	-0.494781216	10
-0.757465051	24	2.31E+04	-0.71502847	24
-0.091197792	2	1.03E+00	0	2
-0.013142207	6	1.32E+00	0	6
0.210303892	2	5.31E-01	0	2
-0.221408359	9	4.96E+00	-0.229707599	9
0.397519094	16	1.69E-01	1	16
0.633884688	16	2.85E-02	1	16
-0.426893283	11	2.28E+01	-0.031812416	11
0.107661369	24	2.40E+00	0.166368755	24
0.292759103	24	3.38E-01	0.245635637	24
0	2	8.41E-01	-0.028073857	2
0	4	1.03E+00	-0.004379256	4
0	2	8.41E-01	0	2
-0.204033729	2	1.32E+00	0	2
-0.102743145	2	1.05E+00	-0.288063988	2
-0.015315039	1	7.83E-01	-0.050532093	1
-0.070501579	21	1.09E+01	0.208147069	21
-0.008032258	6	1.29E+00	0.031719522	6
0.385304657	15	1.95E-01	0.394399904	15
0.241458883	4	5.03E-01	0.131162259	4
0.068698805	39	1.09E+01	0.11734077	39
0.085649151	2	6.97E-01	0	2
-0.493275288	16	1.40E+02	-0.928135728	16
-0.161582795	5	1.95E+00	-0.088024825	5
-0.313045949	5	3.22E+00	-0.458135103	5
-0.025165234	3	9.91E-01	-0.022545394	3
-0.206046438	2	1.32E+00	-0.145374346	2
-0.293217736	6	3.73E+00	-0.236944826	6
-0.316900687	7	5.08E+00	-0.287765103	7
-0.217244431	8	4.05E+00	-0.123580538	8
-0.622510841	10	4.90E+01	-0.486466003	10
0.140135889	2	6.19E-01	-3.14E-05	2
0.049946617	2	7.54E-01	0	2
-0.000442171	3	9.30E-01	0.326951144	3
-0.463275813	3	3.06E+00	0.054403642	3
0.261064299	7	4.74E-01	0.53220851	7
0.263723828	1	4.72E-01	0.047402766	1
-0.423350864	3	2.76E+00	0.279954857	3
-0.040636519	3	1.03E+00	-0.000203399	3
2	34	3.41E-13	3	34
0	2	8.41E-01	0	2
0.154038074	3	6.25E-01	0.02109792	3
0.075274814	6	9.47E-01	-0.116426846	6
0.050110494	19	2.96E+00	0.008871719	19
-0.549225421	5	7.09E+00	0.787431567	5
-0.03344545	31	2.36E+01	0.046025639	31

0.192435266	10	6.80E-01	-0.035770994	10
0.201357997	2	5.41E-01	0	2
-0.309106236	13	1.82E+01	-0.102083616	13
-0.050982845	3	1.06E+00	-0.079708695	3
-0.197436313	3	1.54E+00	-0.012722256	3
-0.220611612	18	2.59E+01	0.079370055	18
-0.612512941	12	9.06E+01	-0.067392721	12
0.091626224	18	1.93E+00	0.060983496	18
-0.604376302	7	1.65E+01	-0.511867182	7
-0.483484012	5	5.70E+00	-0.95725837	5
-2	15	1.95E+05	-0.563053975	15
0.018411251	7	1.28E+00	0.568309352	7
1	8	1.64E-02	0.591350222	8
0.854794406	7	4.15E-02	0.322985421	7
1	7	1.31E-02	1	7
0.288626547	9	4.15E-01	2	9
0.340962737	3	3.86E-01	0.279213931	3
-0.536177945	8	1.69E+01	0.325574988	8
-0.03029978	5	1.25E+00	-0.471825995	5
0.81719439	5	7.41E-02	-0.930197249	5
0.454005641	3	2.89E-01	-1	3
0.773997953	3	1.27E-01	-0.734749725	3
0.623693759	17	2.68E-02	0.942306553	17
2	10	1.47E-05	3	10
2	11	5.17E-05	2	11
-0.12355178	4	1.48E+00	0.48844418	4
-0.309146118	2	1.66E+00	0.344145014	2
0.023520213	6	1.15E+00	0.641927533	6
-0.2354044	4	2.06E+00	-0.002861186	4
0.030975281	1	7.20E-01	0	1
-0.117837633	14	6.18E+00	-0.463379192	14
0	4	1.03E+00	0.165037056	4
3	15	1.55E-10	3	15
1	4	1.23E-02	2	4
1	7	1.59E-02	1	7
0.367675216	42	7.33E-02	0.903602234	42
0.324619102	7	3.65E-01	1	7
0	1	7.61E-01	0	1
0	9	1.69E+00	-0.126216323	9
-0.091713261	12	3.95E+00	-0.262599751	12
0.55435277	39	3.93E-03	0.792577944	39
-0.338703514	10	1.10E+01	0.006602898	10
-0.487394388	1	1.84E+00	0	1
-0.941866255	8	1.04E+02	-0.517855549	8
-1	4	2.51E+01	-1	4
-0.354051381	2	1.83E+00	-0.102695475	2
-0.162672704	7	2.70E+00	-0.079260925	7

-0.432620536	5	4.81E+00	-0.07303018	5
0.113786455	4	7.33E-01	0.48089391	4
0.228837891	21	6.42E-01	0.659985437	21
0.049727037	26	5.22E+00	0.226110516	26
0.580808443	4	1.84E-01	0.521983731	4
0.704193514	7	7.70E-02	2	7
0.312469437	14	3.34E-01	0.670307817	14
0.783880354	37	1.38E-04	1	37
0.009524498	35	1.96E+01	-0.067751234	35
0.030337545	2	7.87E-01	-0.514927419	2
2	23	1.64E-10	3	23
1	41	1.01E-06	1	41
-0.287635894	10	8.44E+00	0.010364558	10
-0.295124633	4	2.46E+00	-0.295200333	4
0	2	8.41E-01	-0.064705942	2
-0.084368545	10	2.91E+00	-0.20842578	10
-0.31049449	6	3.98E+00	0	6
0.002140864	17	3.68E+00	0.068072871	17
-0.143840723	11	4.63E+00	-0.146493695	11
-0.907428708	8	8.95E+01	-0.403970672	8
-0.423768689	7	7.87E+00	0.194024987	7
0	1	7.61E-01	0	1
0	1	7.61E-01	0	1
-0.015674295	3	9.68E-01	-0.013151696	3
0	3	9.29E-01	0	3
0	1	7.61E-01	0	1
-0.281173255	5	2.90E+00	0	5
-0.392435682	3	2.55E+00	-0.686032291	3
-0.746841652	10	9.40E+01	-0.259555526	10
-0.052899785	2	9.45E-01	-0.315857279	2
-0.29094412	6	3.70E+00	0.448437732	6
0.086936193	7	9.69E-01	0.215393876	7
-0.087341374	6	1.73E+00	-0.094371911	6
-0.080800189	8	2.20E+00	0.126564285	8
0.122200085	9	9.32E-01	0.25138512	9
-0.361394897	12	2.00E+01	0.262522678	12
-0.202801182	33	3.18E+02	-0.18534341	33
-0.057793854	18	6.69E+00	-0.169461118	18
-1	3	2.70E+01	-0.547675871	3
-0.344484484	19	9.12E+01	-0.307588345	19
0.095108409	12	1.29E+00	-0.000158271	12
0	1	7.61E-01	0	1
-0.307411208	4	2.55E+00	-0.47687281	4
0.658202914	25	6.04E-03	0.736561536	25
-0.130192108	10	3.70E+00	0.017246923	10
2	1	2.23E-02	2	1
0.037527192	1	7.11E-01	0	1

0.265903146	3	4.69E-01	0	3
-0.123845402	18	1.16E+01	-0.190151578	18
2	3	1.36E-02	1	3
0.264892402	4	4.69E-01	0.779292341	4
2	3	1.01E-02	2	3
0.032259613	2	7.84E-01	0.035613405	2
0.025206861	6	1.14E+00	-0.756240619	6
0.075291891	6	9.47E-01	-0.454482383	6
-0.2888724	10	8.50E+00	-0.295281384	10
0.418985996	15	1.53E-01	0.391526846	15
-0.465762223	9	1.63E+01	-0.852777375	9
0	1	7.61E-01	0	1
0.063207603	6	9.90E-01	-0.003723791	6
-0.219289333	8	4.09E+00	-0.297003305	8
-0.340762574	5	3.54E+00	0.028598364	5
-0.151020103	17	1.24E+01	0.155292596	17
-0.008022052	21	6.02E+00	0	21
0.523031568	4	2.19E-01	0.407889561	4
0.080378789	6	9.29E-01	0.057256542	6
-0.001462182	18	4.19E+00	0.04402719	18
-0.075359084	2	9.92E-01	0.074053111	2
0.268444951	11	4.55E-01	0.182945114	11
0.624897922	13	4.63E-02	0.989826487	13
0.099753703	15	1.50E+00	1	15
0	1	7.61E-01	0	1
-0.047222081	6	1.49E+00	-0.425761125	6
-0.019102182	1	7.88E-01	0	1
-0.065779556	1	8.58E-01	-0.037020146	1
0.453063222	1	3.35E-01	0	1
0.048490872	7	1.13E+00	0	7
-0.11308302	7	2.20E+00	-0.521467263	7
-0.614474883	3	4.52E+00	-0.327425682	3
-0.483449924	1	1.83E+00	-0.699391135	1
-0.202548811	7	3.18E+00	-0.465336026	7
0.148173348	2	6.08E-01	-0.094535667	2
0.790928505	3	1.21E-01	-1	3
0.831324548	1	1.69E-01	1	1
-0.619877794	2	3.27E+00	0.905720064	2
0.291983192	56	2.33E-01	0.449495432	56
0	1	7.61E-01	-0.000188492	1
-0.464696594	3	3.07E+00	0.588616777	3
1	19	2.34E-05	2	19
-0.015622004	5	1.19E+00	-0.011053687	5
-0.574151455	3	4.07E+00	-0.009995939	3
0.385378519	11	2.35E-01	0.940652289	11
0	5	1.13E+00	0	5
0.039030523	18	2.99E+00	-0.12159516	18

-0.170819266	11	5.39E+00	-0.152843605	11
0	4	1.03E+00	0.288087527	4
0.60624384	3	1.95E-01	-0.036947345	3
0.282448789	7	4.34E-01	0.518769627	7
-0.086287049	7	1.97E+00	0	7
3	8	1.58E-05	3	8
2	6	2.18E-04	2	6
-0.349349691	11	1.47E+01	-0.246122675	11
-0.589543415	2	3.06E+00	-0.245643336	2
-0.147952032	4	1.59E+00	0	4
0	4	1.03E+00	-0.208441184	4
0.020380319	10	1.68E+00	0.066447274	10
-0.308073814	3	2.05E+00	-0.042707841	3
0.066981389	5	9.07E-01	-0.67054704	5
-0.227504729	7	3.52E+00	0.205284058	7
-0.194439831	6	2.58E+00	0	6
0.29593434	53	2.21E-01	0.372053802	53
-0.169252203	3	1.44E+00	0	3
0.124096777	6	7.90E-01	0.313303949	6
-0.148762882	8	2.98E+00	-0.240822983	8
1	13	3.08E-04	1	13
-0.013050251	2	8.66E-01	-0.186177195	2
-0.218477142	9	4.89E+00	-0.26093302	9
-0.4848691	9	1.79E+01	-0.592325852	9
0	1	7.61E-01	0	1
-0.119965785	7	2.26E+00	-0.255711039	7
-0.032246623	2	9.03E-01	-0.014586818	2
-0.193946988	7	3.07E+00	0	7
-0.016046543	9	1.83E+00	0	9
-1	7	1.08E+02	-1	7
-0.076227534	7	1.89E+00	-0.131189765	7
0.008527281	3	9.09E-01	0	3
-0.008372421	5	1.17E+00	-0.040507787	5
-0.2336947	5	2.47E+00	-0.528022688	5
-0.001612142	4	1.03E+00	-0.427013798	4
-0.141603642	3	1.34E+00	-0.000146468	3
-0.721882911	6	1.84E+01	-0.822904524	6
-1	5	5.00E+01	-0.82883602	5
-0.162729727	4	1.66E+00	0.12477752	4
0	3	9.29E-01	-0.320942255	3
-0.851056398	1	3.55E+00	-0.132211213	1
-0.00281517	4	1.04E+00	-0.115873398	4
-0.005996979	5	1.16E+00	-0.009891574	5
-0.324777651	4	2.68E+00	-0.546119137	4
-0.506540811	3	3.42E+00	-0.564189728	3
-0.246949855	4	2.13E+00	-0.072026293	4
0.288265804	8	4.20E-01	-0.267637094	8

-0.468478005	2	2.35E+00	-0.046061404	2
-1	7	3.27E+02	-0.255862936	7
0.042551829	5	9.84E-01	0	5
0	5	1.13E+00	0	5
0.192527747	2	5.52E-01	-0.334766501	2
0.093905224	5	8.29E-01	-0.73132011	5
0.264526912	1	4.72E-01	0.226380951	1
0.037052662	4	9.20E-01	-0.059377431	4
4	6	1.86E-07	5	6
0.068881182	5	9.01E-01	0.009124776	5
-0.009197586	10	1.96E+00	0.104260192	10
-0.085740456	8	2.25E+00	-0.15470301	8
0	3	9.29E-01	0	3
-0.718388502	10	8.10E+01	-0.453201937	10
0.002107575	6	1.24E+00	0	6
-0.078814565	1	8.78E-01	0.067527946	1
0.459359163	9	1.81E-01	0.665498299	9
-0.045017123	5	1.32E+00	-0.662918399	5
-0.131988588	2	1.12E+00	0	2
0.09858109	11	1.18E+00	-0.354277225	11
0	1	7.61E-01	0	1
0	1	7.61E-01	0	1
0.171800804	22	1.14E+00	-0.00303299	22
0.085404685	10	1.19E+00	-0.20002093	10
0.09557005	12	1.28E+00	-0.530934114	12
-1	2	1.13E+01	-1	2
-0.071613425	1	8.67E-01	0	1
0	1	7.61E-01	0	1
0	2	8.41E-01	0	2
-0.286015927	18	4.45E+01	-0.121960957	18
0.823679531	33	1.76E-04	1	33
-0.000274656	1	7.62E-01	0	1
0.774153675	13	1.78E-02	0.938221386	13
-0.013929677	3	9.63E-01	-0.426271934	3
-0.234920914	12	9.35E+00	-0.88500006	12
-1	5	4.24E+01	-1	5
0.420788936	20	1.11E-01	0.122050028	20
0.508862548	10	1.29E-01	0.334761886	10
-0.023579938	4	1.10E+00	0.96910961	4
0.25367662	21	5.08E-01	0.14262724	21
-0.000659435	2	8.42E-01	-0.046518165	2
-0.836489269	4	1.22E+01	-0.187520553	4
0.501791563	40	8.45E-03	0.083272318	40
-0.132580366	5	1.77E+00	-0.018149892	5
0.158244748	4	6.43E-01	-0.318618802	4
0	2	8.41E-01	0	2
-0.303187319	7	4.80E+00	-0.910634199	7

-0.028348063	8	1.74E+00	0.533233346	8
0.144225918	2	6.13E-01	-0.182717893	2
0	3	9.29E-01	0	3
-0.013426953	1	7.80E-01	-0.044311531	1
0.233914285	28	6.57E-01	0.306283456	28
0.29276011	32	3.07E-01	0.52494849	32
0.086342452	10	1.19E+00	0.062085785	10
-0.300876932	7	4.76E+00	-0.104654285	7
-1	3	1.89E+01	-2	3
-0.391230762	2	1.98E+00	0.072799683	2
-1	4	2.72E+01	-0.05929424	4
0.472346331	4	2.54E-01	-0.952337542	4
-0.056015782	5	1.37E+00	-0.911503644	5
-0.741371992	2	4.27E+00	-0.289288012	2
-0.956513065	1	4.30E+00	-0.133072108	1
-0.629651121	3	4.70E+00	-0.49264409	3
-1	17	1.55E+04	-0.39646996	17
-0.750524336	20	4.57E+03	-0.901351179	20
-0.220449671	5	2.37E+00	0.231359847	5
0.081864932	10	1.21E+00	0.037374929	10
-0.158363995	14	8.13E+00	0.014342649	14
0.118369185	4	7.24E-01	-2.60E-05	4
0.010367366	41	3.43E+01	0.112732325	41
-0.659502113	19	1.41E+03	-0.197766802	19
-0.349632536	2	1.81E+00	-0.108027136	2
-0.027262262	41	6.52E+01	0.169862073	41
-0.904816189	5	2.33E+01	-0.482932173	5
-0.627345972	6	1.29E+01	-0.151727182	6
-0.702326256	5	1.18E+01	-2	5
-1	4	3.84E+01	-2	4
-0.413091642	7	7.54E+00	-0.629216946	7
0	3	9.29E-01	-0.005456271	3
-0.200323136	10	5.34E+00	-0.150490648	10
-0.006395538	1	7.70E-01	0	1
-0.006395538	1	7.70E-01	0	1
0	1	7.61E-01	-0.038608368	1
-0.601412379	14	1.64E+02	-0.611663697	14
-0.009320686	7	1.44E+00	0.02625017	7
0.192530811	23	9.53E-01	0.182893229	23
-0.248048381	4	2.14E+00	0.862360612	4
0.132610972	2	6.29E-01	0.212584524	2
0.035863027	5	1.01E+00	-0.025937023	5
0.124232566	3	6.75E-01	-0.042041507	3
0.043265455	8	1.26E+00	0.040878586	8
0.037861894	11	1.67E+00	0.043272905	11
0.073104799	27	4.30E+00	0.19161483	27
0.381685213	16	1.91E-01	0.646131441	16

0.617024364	12	5.58E-02	0.940147262	12
-0.036262479	7	1.61E+00	0.411362872	7
0.137129703	18	1.33E+00	0.526449863	18
-0.113383149	6	1.91E+00	-1	6
-0.239358782	15	1.70E+01	-0.179373701	15
0.231652561	18	6.05E-01	0.412648954	18
-0.656813456	5	1.02E+01	0.253016931	5
-0.694970219	4	8.01E+00	0.185524687	4
-1	4	4.36E+01	-1	4
-0.290320877	6	3.69E+00	-0.329445938	6
0.480207768	37	1.56E-02	0.619419576	37
1	5	1.16E-02	2	5
0.028398513	5	1.03E+00	-0.320696287	5
0.414374166	15	1.58E-01	0.589068245	15
-1	4	2.17E+01	-0.987597355	4
-0.437657266	3	2.87E+00	0.447137559	3
-0.097863043	10	3.12E+00	0.4352214	10
0.000675598	4	1.02E+00	0.006146077	4
0.281469841	17	4.03E-01	0.676549062	17
-0.509947118	8	1.51E+01	0.545540181	8
-1	17	1.78E+04	-0.167683441	17
-0.642121008	10	5.43E+01	-0.423577096	10
-0.464721649	4	4.06E+00	-0.660533528	4
-2	6	4.58E+02	-1	6
3	20	1.70E-10	3	20
0.397040283	11	2.20E-01	2	11
-0.679090982	5	1.09E+01	-0.363792983	5
0.122026538	1	6.11E-01	-0.540493701	1
4	21	6.02E-16	5	21
2	18	8.59E-07	2	18
0.16168643	16	1.00E+00	0.114310478	16
1	13	2.36E-03	1	13
0.231826078	1	5.01E-01	0.032927601	1
0.154220106	25	1.53E+00	0.267082768	25
1	5	2.82E-02	1	5
-0.222728473	9	4.99E+00	-0.670642899	9
0.603827209	12	6.04E-02	0.758819981	12
0.074219738	13	1.57E+00	0.012329495	13
-1	2	7.58E+00	0.205986293	2
0.555012723	28	1.34E-02	0.804013775	28
1	7	1.28E-02	1	7
0.083629706	3	7.49E-01	0.207764143	3
0.592223105	9	9.46E-02	-0.111563022	9
-0.410609417	1	1.60E+00	-0.831694201	1
0.142108342	6	7.38E-01	-0.18781733	6
-0.068597371	10	2.67E+00	-0.008523422	10
-0.011004093	4	1.06E+00	0	4

-0.001373927	2	8.44E-01	0	2
-0.175559599	3	1.46E+00	0	3
-0.186072935	2	1.26E+00	0	2
0.049311142	3	8.19E-01	0	3
-0.281980372	10	8.20E+00	-0.052402666	10
-0.360796286	5	3.78E+00	-0.259039276	5
-0.899941282	6	3.56E+01	0.309924968	6
0.16763052	9	7.47E-01	0.050639552	9
-0.718840967	14	3.63E+02	-0.250300382	14
-0.182382961	9	4.10E+00	0.161685466	9
-0.249362574	4	2.15E+00	0.25235428	4
0.394185281	6	2.89E-01	0.513334723	6
-0.273889078	5	2.83E+00	1	5
0.365956478	12	2.52E-01	0.25977873	12
0.085465925	4	7.97E-01	0.062417605	4
-0.404221357	4	3.39E+00	-0.21808006	4
0.929664521	16	3.06E-03	0.637712536	16
0.315820539	12	3.41E-01	0.367854604	12
-0.462929946	2	2.32E+00	0.545199854	2
0.119339394	1	6.14E-01	0.839213902	1
0.208040476	18	7.36E-01	0.249113419	18
0.086344322	2	6.96E-01	0.325114949	2
0.238119183	9	5.30E-01	0.146885467	9
-0.011940445	10	1.99E+00	0.03121589	10
-0.002060895	3	9.34E-01	0	3
0.659925276	1	2.31E-01	0.40844234	1
-0.424691022	7	7.90E+00	-0.757766088	7
0.115694454	4	7.29E-01	0.71249454	4
1	19	4.75E-04	1	19
-0.295169772	9	7.10E+00	-0.497972849	9
-0.076442856	4	1.29E+00	-0.934739952	4
0.631038468	7	1.04E-01	0.14931587	7
1	5	2.81E-02	0.908136639	5
-0.016116004	4	1.08E+00	-0.099673027	4
-0.601458132	6	1.17E+01	2	6
-0.143652695	16	1.00E+01	-0.005393288	16
-0.546996598	5	7.04E+00	-0.187934762	5
-0.728119432	3	6.06E+00	-0.452020841	3
-0.196336984	8	3.69E+00	0.250678673	8
1	20	5.77E-04	2	20
-0.122972453	13	5.52E+00	-0.302010745	13
0.838885425	7	4.43E-02	0.209773326	7
0.390842954	1	3.75E-01	0.562310391	1
1	55	2.52E-10	1	55
0	1	7.61E-01	0	1
0.125209158	6	7.86E-01	-0.758233115	6
0.225100853	15	6.13E-01	-0.200346737	15

-0.078005582	9	2.47E+00	-0.208408541	9
-0.076916514	4	1.29E+00	-0.665517505	4
0.174405448	43	2.22E+00	0.284220531	43
1	2	3.56E-02	2	2
0.041667124	35	1.22E+01	0.103729282	35
1	16	4.77E-04	1	16
0.737224879	12	2.71E-02	2	12
-0.360167055	3	2.35E+00	0.043531228	3
0.208523008	16	7.04E-01	0.619206747	16
-0.23289148	21	5.04E+01	-0.491359697	21
-0.487380695	11	3.21E+01	-0.766285825	11
0.016461034	2	8.11E-01	0	2
-0.476877458	10	2.28E+01	-0.449374472	10
0.381809102	27	1.15E-01	0.708692556	27
0.434939488	25	7.01E-02	0.743415037	25
-0.06423288	19	7.99E+00	-0.014906222	19
0.279757704	21	3.97E-01	0.13285626	21
0.088069372	51	1.76E+01	0.212495088	51
0.31487066	9	3.65E-01	0.563371207	9
0.188148564	14	7.77E-01	0.604615415	14
0.024802391	13	2.15E+00	-0.130903664	13
-0.0309489	4	1.12E+00	0.617369636	4
-0.230562874	7	3.56E+00	0.036237973	7
-0.53025315	17	2.50E+02	-0.267518599	17
-0.562876033	11	4.90E+01	-0.621723699	11
-0.95992433	6	4.46E+01	-0.302989261	6
-0.02735027	1	8.00E-01	0	1
-0.123663398	6	1.98E+00	-0.005008858	6
-0.399069352	17	8.85E+01	-0.51617434	17
-0.055588616	5	1.37E+00	0.374809801	5
-0.013018667	8	1.62E+00	0.232579461	8
0.12483697	11	1.02E+00	0.432324117	11
-0.302877287	6	3.87E+00	-8.34E-06	6
0.157346639	10	8.17E-01	0.198880013	10
-0.414211246	9	1.27E+01	-0.25352742	9
-0.014931138	14	3.08E+00	0.253299977	14
-0.04891462	13	3.44E+00	-0.228153322	13
0.41041676	12	1.93E-01	0.666330074	12
1	32	1.42E-05	1	32
-0.007833301	4	1.05E+00	-0.306459455	4
-1	24	3.28E+06	-0.892418727	24
0.113041675	20	1.81E+00	0.207266623	20
0.190974413	12	7.22E-01	0.15332485	12
-0.725385353	22	7.72E+03	-1	22
-0.144490853	22	2.55E+01	-0.559280122	22
-0.614073899	17	4.86E+02	-0.470324045	17
-0.268655709	19	4.72E+01	0.155032438	19

0.736788188	8	5.62E-02	0.932155462	8
-0.223005334	9	5.00E+00	-0.517000332	9
-0.060726565	6	1.57E+00	-0.291596454	6
-0.307808784	6	3.94E+00	0.011826218	6
-0.079309822	7	1.92E+00	0.187958095	7
-0.203601081	4	1.87E+00	0.475305906	4
-0.859202905	12	3.99E+02	-0.48589149	12
0.001965883	4	1.02E+00	0.003298765	4
0.405968822	4	3.09E-01	0.207753712	4
-0.509014607	12	4.86E+01	-0.658847753	12
-0.378885717	4	3.15E+00	-0.352600199	4
-0.096533216	9	2.70E+00	-0.806301021	9
-0.229422446	12	9.05E+00	-0.121994209	12
-0.560784164	8	1.89E+01	-0.407070146	8
0.097731982	8	9.87E-01	-8.78E-06	8
0.417607967	1	3.58E-01	0	1
-1	8	6.58E+02	-0.518378486	8
0.193599932	5	5.94E-01	-0.013141502	5
-0.492910371	7	1.05E+01	-0.445828132	7
-0.337281078	4	2.78E+00	0.041815358	4
-0.033858638	5	1.27E+00	0.440426417	5
0.750799853	10	3.63E-02	1	10
1	18	2.05E-04	0.827603689	18
-0.177084968	3	1.47E+00	0.02675876	3
0	2	8.41E-01	0	2
-0.48389568	3	3.23E+00	-0.700242919	3
-0.557465798	5	7.29E+00	0	5
0.00313486	8	1.51E+00	-0.079977823	8
0.694414775	12	3.50E-02	0.237470135	12
0.042026376	6	1.07E+00	0.486098373	6
0.130874891	9	8.94E-01	0.246344994	9
0.072705234	3	7.71E-01	-0.194190368	3
-0.179608422	8	3.42E+00	-0.725474729	8
-0.313612048	7	5.01E+00	-0.05393607	7
0.084840003	6	9.14E-01	-0.121417711	6
-0.676628106	7	2.22E+01	-0.611545466	7
-0.864287275	6	3.12E+01	-0.992215931	6
-2	9	4.17E+03	-2	9
-0.02050523	1	7.90E-01	0.03332202	1
-0.270090608	3	1.86E+00	0.919613083	3
-0.369269585	4	3.06E+00	-0.393608551	4
-0.131598434	7	2.37E+00	0.845417902	7
-0.084597586	4	1.32E+00	0	4
-0.577552831	9	2.81E+01	-0.03788318	9
-0.761033061	2	4.46E+00	-0.353099201	2
-0.418981264	5	4.59E+00	-0.580187081	5
0.766406763	9	4.05E-02	2	9

0.204599653	5	5.73E-01	-0.12247007	5
0.777363767	5	8.47E-02	0.395376583	5
-0.230118685	6	2.95E+00	0.144909114	6
-0.513895527	8	1.53E+01	-0.02751999	8
-0.952536171	8	1.10E+02	0.242579524	8
-0.848690767	10	1.60E+02	-1	10
-0.055814744	6	1.54E+00	-0.058592714	6
-0.286464308	12	1.27E+01	-0.012849759	12
0.085959633	7	9.73E-01	0.372214606	7
-0.592874552	3	4.27E+00	0.544553133	3
0.273763492	5	4.55E-01	0.491583441	5
-0.08418858	8	2.23E+00	-0.039767368	8
-0.404169414	7	7.27E+00	-0.37999718	7
-0.903547354	10	2.14E+02	-1	10
-0.329550905	8	6.70E+00	-0.03053324	8
-0.223935221	4	1.99E+00	-0.247403848	4
-0.357956358	8	7.61E+00	-0.628662264	8
0.265297115	7	4.66E-01	0.006178133	7
-0.611633195	7	1.70E+01	-0.141047922	7
-0.394693101	8	8.98E+00	-0.474954774	8
-0.521166463	4	4.79E+00	-1	4
-0.016664959	3	9.70E-01	0	3
0	3	9.29E-01	-0.05151261	3
-0.379338756	8	8.38E+00	-0.020093904	8
0	1	7.61E-01	0	1
-0.293572388	6	3.73E+00	0.409241402	6
-0.021382107	3	9.82E-01	0.025907642	3
-0.489461852	6	7.74E+00	-0.149278072	6
-0.107103815	5	1.62E+00	-0.395641756	5
-1	4	2.46E+01	-2	4
-0.317314747	2	1.69E+00	-0.364848623	2
0.440731267	7	2.27E-01	1	7
-0.645876529	5	9.80E+00	-0.907333753	5
-0.460258033	4	4.00E+00	0.755404353	4
-0.045251841	6	1.48E+00	1	6
0.154350901	5	6.77E-01	-0.009914988	5
-0.610211577	9	3.29E+01	-0.660789284	9
-0.784185039	4	1.04E+01	-0.125058034	4
-0.958046807	5	2.78E+01	-1	5
-0.59259695	5	8.20E+00	-0.275145091	5
-0.561193235	5	7.38E+00	-0.285342184	5
0.087582893	6	9.05E-01	-0.00031508	6
-0.019921717	3	9.78E-01	-0.01437469	3
-0.61585432	2	3.24E+00	-0.794240035	2
-0.0379903	8	1.81E+00	-1	8
-0.27724306	14	1.82E+01	-0.586276837	14
-0.108097369	5	1.63E+00	-0.283807008	5

-0.788802415	9	7.85E+01	0.141541877	9
-0.51895829	8	1.57E+01	-0.246904542	8
-0.191687121	5	2.15E+00	-1	5
-0.030471197	3	1.01E+00	0	3
-0.003290867	3	9.37E-01	0.005339818	3
-0.435413637	10	1.83E+01	-0.205017872	10
-0.584592867	7	1.52E+01	-0.279865475	7
-0.716274118	4	8.53E+00	-0.377049325	4
-0.061731987	4	1.23E+00	-1	4
-0.261458926	13	1.34E+01	-0.084530251	13
-0.499015294	3	3.36E+00	-0.10288072	3
-0.288429844	2	1.58E+00	-0.173021369	2
0	1	7.61E-01	0	1
0.057976078	3	8.00E-01	-0.376975675	3
-0.01068351	6	1.30E+00	-0.214685889	6
-0.531375803	12	5.56E+01	-0.680158147	12
0.027152599	7	1.24E+00	-0.406289202	7
1	25	3.16E-06	2	25
-0.329300519	12	1.65E+01	-0.015775935	12
-0.200963039	4	1.86E+00	-0.012130155	4
-0.006909026	5	1.16E+00	-0.023516176	5
-0.244126067	7	3.77E+00	0	7
0	3	9.29E-01	0	3
0	2	8.41E-01	0	2
-0.345580249	8	7.20E+00	-0.713911837	8
-0.081316774	8	2.20E+00	-0.300040711	8
0.183733742	3	5.79E-01	-0.013310048	3
0	2	8.41E-01	0	2
0	1	7.61E-01	0	1
-0.350204562	11	1.48E+01	0.507268176	11
-0.11920101	31	7.35E+01	-0.098493302	31
-0.96424384	8	1.15E+02	-0.107671206	8
-0.579594521	6	1.08E+01	0.269568816	6
-0.392842931	2	1.99E+00	0.079250574	2
-0.153787622	2	1.18E+00	-0.025636057	2
-0.085554652	5	1.51E+00	-0.802880561	5
-0.119295247	5	1.69E+00	-0.185628426	5
-0.322486212	12	1.58E+01	0.715628764	12
-0.03379096	14	3.49E+00	0.421725036	14
-0.112430111	2	1.08E+00	0.019350143	2
-0.239576431	6	3.05E+00	-0.461303388	6
-0.205261308	7	3.21E+00	-0.863736594	7
-0.367618363	4	3.04E+00	-0.326261214	4
-0.000662875	4	1.03E+00	-0.001093363	4
-0.212034389	8	3.96E+00	0.394273626	8
-0.31614109	4	2.61E+00	-0.479951414	4
-0.510224858	8	1.51E+01	-0.091077722	8

-0.2553751	3	1.79E+00	-0.082918314	3
-0.349088323	9	9.24E+00	-0.162606266	9
-0.16766511	3	1.43E+00	-0.706300647	3
-0.117142011	6	1.94E+00	-0.801698737	6
-0.002382191	2	8.46E-01	-0.349443875	2
-0.323141752	9	8.14E+00	-0.178086848	9
-1	18	4.04E+05	-0.464703227	18
1	4	4.24E-02	0.288180654	4
-1.12E-05	4	1.03E+00	0.003227115	4
-0.84535985	6	2.91E+01	-1	6
-0.093259488	2	1.03E+00	-0.037904024	2
-0.193468657	5	2.16E+00	0.175946241	5
-0.000506319	4	1.03E+00	-2.35E-05	4
0.092443858	9	1.08E+00	-0.112144	9
-1	5	4.75E+01	0	5
-0.375768397	4	3.12E+00	0	4
-0.517786616	5	6.39E+00	0	5
0.300006787	4	4.23E-01	0.544511612	4
0.000747524	23	6.76E+00	-0.002674415	23
-0.293953831	21	8.98E+01	-0.588141015	21
-0.196062367	20	2.99E+01	-0.192990825	20
-0.09639077	11	3.55E+00	-0.012423171	11
-0.23991013	14	1.41E+01	-0.400798402	14
0.015614951	14	2.50E+00	0.386267554	14
0.016070738	4	9.79E-01	0.03493366	4
0.040958623	14	2.11E+00	0.015927143	14
0.253235919	31	5.25E-01	0.299069156	31
0	1	7.61E-01	0	1
-0.047904874	14	3.85E+00	-0.289298352	14
0.29014858	41	2.87E-01	0.489026969	41
0.076614341	8	1.08E+00	0.033133853	8
-0.190774634	9	4.27E+00	0.38176821	9
0.297797595	14	3.69E-01	0.16129784	14
0.590490444	25	1.27E-02	1	25
-0.211679126	5	2.30E+00	0.208937443	5
-0.143165627	11	4.62E+00	-0.180129936	11
-0.009486956	5	1.17E+00	-0.007993346	5
-0.212390597	5	2.30E+00	-0.343216592	5
-0.042030684	7	1.64E+00	-0.386412405	7
-0.594223058	9	3.04E+01	-0.733550286	9
-0.000539189	4	1.03E+00	0	4
-0.05370727	17	5.74E+00	-0.104720861	17
-0.065024575	6	1.60E+00	-0.060158126	6
0.145317159	28	1.92E+00	0.353883386	28
0.277440041	7	4.43E-01	2	7
2	12	2.26E-05	2	12
0.062642283	20	2.86E+00	0.1316015	20

-0.236883831	17	2.45E+01	-0.195410601	17
3	6	3.14E-06	3	6
0.17015015	14	8.77E-01	-0.456591533	14
-0.276478285	24	1.41E+02	0.115891955	24
2	14	3.47E-05	0.826908994	14
-0.38450051	15	4.82E+01	-0.343140486	15
0.051282592	10	1.43E+00	0.079526521	10
-0.401123898	49	2.94E+05	-0.212435762	49
-0.421232575	8	1.01E+01	-0.280791321	8
0.738126749	5	9.65E-02	-0.137989153	5
0.057067773	25	4.44E+00	0.207211804	25
2	3	5.90E-03	0.753835571	3
0.679782857	29	2.51E-03	1	29
0.006640741	7	1.35E+00	0.343519656	7
0.081763892	2	7.03E-01	0.086643411	2
0.175176389	21	1.07E+00	0.640193468	21
-0.209672124	6	2.73E+00	-0.605227946	6
-0.188584964	9	4.23E+00	-0.125114517	9
1	42	4.45E-10	2	42
0.339406846	25	2.00E-01	0.517996682	25
0.362923729	3	3.65E-01	-0.105783416	3
0.401389718	7	2.67E-01	0.216730694	7
0.361805626	66	3.21E-02	0.649037455	66
2	22	8.65E-07	2	22
0.768257903	17	8.52E-03	1	17
0.225113047	35	8.04E-01	0.258942638	35
0.387470744	2	3.60E-01	0.384973711	2
0.849197524	55	8.73E-07	0.902064089	55
0.688377942	8	6.98E-02	1	8
-0.019424814	12	2.56E+00	0.20688943	12
-0.391402651	9	1.13E+01	0.022476153	9
0	1	7.61E-01	0	1
-0.351325328	1	1.44E+00	0	1
-0.924110046	2	6.38E+00	-0.778053974	2
-0.055909657	2	9.51E-01	-0.031509058	2
0	2	8.41E-01	0	2
-0.422835011	2	2.13E+00	-0.646802984	2
-0.368399717	7	6.27E+00	0.090699562	7
0.146561701	5	6.95E-01	-0.274964657	5
0.281208559	3	4.51E-01	-0.024324349	3
-1	12	6.48E+03	-0.792270951	12
-0.270264348	5	2.80E+00	1	5
-0.03518823	7	1.60E+00	0.315633216	7
2	10	1.19E-04	3	10
0.868264791	15	6.13E-03	2	15
-0.628855701	8	2.57E+01	0.330959894	8
-0.096275625	10	3.09E+00	-0.091962118	10

-0.452751898	3	2.98E+00	0.290600241	3
-0.017549119	3	9.72E-01	0.046239353	3
-0.323750655	4	2.67E+00	-0.160232587	4
-0.182254826	4	1.76E+00	-0.268748604	4
-0.260473005	11	8.94E+00	1	11
-1	7	3.54E+02	-0.454439001	7
-1	6	1.08E+02	-0.184535013	6
-0.487723245	5	5.78E+00	-0.065807926	5
-0.958071877	10	2.85E+02	0.008295383	10
-0.270725217	4	2.29E+00	-0.026688921	4
-0.829940698	7	4.17E+01	-0.713372464	7
-0.275527615	10	7.92E+00	-0.330667674	10
-0.209260239	10	5.60E+00	-0.371318838	10
-0.244445434	9	5.55E+00	-0.687241398	9
0.148594969	5	6.91E-01	-0.004253583	5
0.209960405	27	8.62E-01	0.646196163	27
-0.413127115	2	2.08E+00	-0.464381943	2
0.191222459	2	5.53E-01	0.114097469	2
-0.20850467	20	3.35E+01	0.530250884	20
-1	4	2.44E+01	-0.250812241	4
-0.009472805	4	1.06E+00	0	4
0.223840593	10	5.76E-01	0.176517625	10
0.209152698	4	5.53E-01	-0.491084288	4
-0.507845654	7	1.11E+01	0.569568681	7
0.273343367	5	4.55E-01	-0.134048167	5
0.351350671	11	2.85E-01	0.303920566	11
0.286230045	6	4.32E-01	0.699387179	6
0.476822791	6	2.13E-01	-0.36988353	6
0.057554676	8	1.18E+00	0.666476751	8
0.047594707	1	6.99E-01	0.026448001	1
0.3525768	12	2.73E-01	-0.292132995	12
-0.132192325	6	2.05E+00	-0.040289755	6
-0.297222448	5	3.06E+00	-1	5
-0.003981916	4	1.04E+00	-0.01284905	4
-0.239001441	10	6.54E+00	0.16159158	10
-0.020108776	11	2.31E+00	-0.143508036	11
-0.033493185	6	1.42E+00	-0.005592873	6
-0.016471556	6	1.33E+00	-0.013811859	6
0	3	9.29E-01	0.136446214	3
0	3	9.29E-01	0.028867119	3
-0.457544634	6	6.87E+00	-0.516224991	6
-0.026757563	3	9.96E-01	-0.013109653	3
-0.238257467	6	3.04E+00	-0.567052905	6
0	1	7.61E-01	-0.021270545	1
-0.103727691	5	1.60E+00	-3.41E-06	5
-0.029156926	4	1.12E+00	0.021402771	4
-1	27	3.07E+08	-0.625934839	27

-0.964795302	22	8.13E+04	-0.705501854	22
-0.202783124	9	4.53E+00	-0.45404608	9
0	5	1.13E+00	0.200833419	5
0	3	9.29E-01	0.014162344	3
-0.022733088	11	2.34E+00	0.352587612	11
-0.485223806	10	2.38E+01	0.731932595	10
-0.216701172	8	4.04E+00	0.297854687	8
0.014302269	4	9.84E-01	-0.082661622	4
0.264743425	7	4.67E-01	0.116359981	7
-0.016836444	2	8.73E-01	0	2
-0.200716552	6	2.64E+00	0	6
0.763417836	15	1.30E-02	1	15
0.559592919	4	1.96E-01	1	4
-0.302826987	5	3.12E+00	0.136482746	5
-0.61777489	3	4.56E+00	-0.406153775	3
-0.538943438	4	5.05E+00	-0.549340881	4
-0.094540904	11	3.51E+00	-0.880599413	11
0.098662863	13	1.34E+00	-0.016413719	13
0.624919073	23	1.15E-02	1	23
0.606838735	5	1.50E-01	0.693092966	5
-0.134379296	3	1.31E+00	-0.029299979	3
-0.11174664	2	1.07E+00	-0.000151361	2
-0.474186608	18	2.12E+02	0.003288186	18
-0.35436339	9	9.48E+00	-0.405900023	9
0.204170749	5	5.74E-01	0.034640799	5
-0.088772046	7	1.99E+00	0.052914724	7
-0.043243956	5	1.31E+00	-0.60295739	5
-0.390780284	5	4.18E+00	-0.771620479	5
0.48305374	11	1.36E-01	0.278724613	11
-0.173885439	5	2.03E+00	0.588388047	5
-0.584525075	9	2.90E+01	-0.611211939	9
-0.067308652	13	3.87E+00	0.298231717	13
0.596843521	9	9.25E-02	0.281281035	9
0.047333131	14	2.02E+00	-0.08207247	14
-0.398255881	8	9.12E+00	-0.698115666	8
0.344236348	6	3.48E-01	0.488511076	6
0.308746964	9	3.76E-01	-0.08559854	9
0.031713846	10	1.58E+00	0.389816236	10
0.415757963	5	2.83E-01	1	5
0.541898505	4	2.07E-01	0.32249922	4
1	16	7.90E-04	2	16
0.09323572	14	1.48E+00	0.284295011	14
0.255212978	32	5.12E-01	0.56414094	32
-0.316453553	18	5.73E+01	-0.398899705	18
-0.495472674	10	2.51E+01	-0.879870449	10
-0.570084471	5	7.61E+00	0.926479986	5
-0.442262497	8	1.11E+01	-1	8

-0.607578799	6	1.20E+01	-2	6
-0.420648838	4	3.56E+00	-0.482759411	4
-0.187535288	7	2.99E+00	-0.190464328	7
-0.146175375	11	4.70E+00	0.188040936	11
0.739238386	16	1.29E-02	0.796646128	16
-0.174812175	2	1.23E+00	0	2
-2	10	9.93E+04	-0.983455415	10
-0.501707464	6	8.10E+00	-0.834212338	6
-0.290405146	13	1.61E+01	0.138402054	13
-0.828982122	8	6.29E+01	-1	8
-0.121625441	10	3.53E+00	0.368821341	10
0.465642738	17	9.37E-02	1	17
0.928861761	14	5.13E-03	2	14
-0.399068521	15	5.35E+01	-0.434141932	15
-0.327995951	8	6.66E+00	-0.355699566	8
-1	6	1.24E+02	-0.632074198	6
-0.958828169	2	6.88E+00	-0.532516257	2
-0.792227463	2	4.78E+00	-0.510947356	2
0	2	8.41E-01	0	2
0.177289505	9	7.13E-01	0.390653238	9
0.341891704	5	3.62E-01	0.085094071	5
-0.002393288	6	1.26E+00	0.09902502	6
-0.33704867	3	2.21E+00	0	3
-1	6	9.62E+01	-1	6
-0.150973049	4	1.60E+00	-0.408780677	4
-0.114361152	10	3.40E+00	0.221619015	10
-2	7	3.25E+03	-1	7
-1	5	3.93E+01	-2	5
-0.381572249	11	1.77E+01	0.593150239	11
0.398654654	12	2.07E-01	0.742026111	12
0.454126375	15	1.19E-01	0.496458905	15
0.31631812	3	4.12E-01	0.360313083	3
0.570310724	19	3.23E-02	2	19
-0.112284827	6	1.90E+00	-0.348746213	6
-0.161999709	10	4.37E+00	-0.211679363	10
-0.23866406	7	3.68E+00	-0.071243338	7
-0.523362767	5	6.51E+00	-0.129915824	5
-0.694462715	6	1.66E+01	-0.774547418	6
-0.771336821	3	6.77E+00	-0.947344494	3
-0.270378989	9	6.30E+00	-0.363619262	9
-0.17059031	7	2.79E+00	-0.417046401	7
-0.187811285	10	5.00E+00	-0.271441952	10
-0.491230237	15	1.03E+02	-0.272609802	15
-0.133698164	7	2.40E+00	-0.178910179	7
-0.05336619	2	9.46E-01	0.544133257	2
0.044571012	2	7.63E-01	0.542733782	2
-0.086710472	7	1.98E+00	0.153049545	7

0.768007871	10	3.31E-02	0.71162961	10
-0.056143663	21	9.49E+00	0.411342536	21
-1	1	8.82E+00	-0.744853671	1
-0.615619007	3	4.53E+00	-1	3
-0.639243173	4	6.79E+00	-1	4
-0.054292035	2	9.47E-01	-0.063449436	2
-1	5	1.66E+02	-0.656938681	5
0	2	8.41E-01	-0.171847562	2
0	2	8.41E-01	0	2
0	1	7.61E-01	0	1
-0.059128106	2	9.58E-01	-6.72E-05	2
-0.48893619	5	5.80E+00	-0.247015719	5
-0.142902107	8	2.90E+00	-0.352632347	8
-0.012204597	5	1.18E+00	0	5
-0.44326123	4	3.81E+00	-0.649831824	4
-0.951860816	8	1.09E+02	0.345517127	8
-0.359709864	11	1.56E+01	-0.235605414	11
-0.020561158	1	7.90E-01	0	1
-0.032691057	11	2.48E+00	-0.081264847	11
-0.557540109	6	9.97E+00	-0.680926587	6
-0.289150258	6	3.67E+00	-0.984334974	6
0.714909788	13	2.60E-02	0.884276232	13
-0.136692901	6	2.08E+00	-0.051900597	6
-0.091165465	15	5.90E+00	0.019033641	15
0.228592977	6	5.35E-01	-2.59E-06	6
-0.272562877	10	7.80E+00	-0.76381778	10
-0.78371882	5	1.55E+01	0.652361405	5
0.139707547	3	6.49E-01	-0.595527538	3
-0.609830308	11	6.39E+01	-0.509129816	11
1	11	2.57E-03	1	11
0.312822558	8	3.76E-01	0.206917065	8
0.466383267	5	2.39E-01	-0.281053882	5
-0.08992012	4	1.34E+00	0.770950474	4
0.598325545	5	1.54E-01	0.855567537	5
0.67799389	8	7.31E-02	1	8
1	8	1.66E-02	1	8
-0.388613123	8	8.74E+00	0.258259664	8
0.006366902	13	2.42E+00	0.589097274	13
-0.278374486	11	9.88E+00	-0.94406023	11
-0.390177556	7	6.86E+00	0.252546267	7
0.195351963	6	6.06E-01	0.303143346	6
-0.880112979	5	2.14E+01	-0.207476965	5
0.242389986	5	5.05E-01	-0.368757583	5
0.854551959	6	5.21E-02	0.252233024	6
-0.452156059	2	2.27E+00	-0.448690014	2
-0.016197076	4	1.08E+00	0.141002087	4
1	8	1.01E-02	-1	8

-0.484346406	3	3.23E+00	0.262909453	3
-0.533189912	7	1.23E+01	-0.164540714	7
0.047265201	2	7.58E-01	0.113487516	2
-0.035578011	5	1.28E+00	-0.155571469	5
0	1	7.61E-01	0	1
0.15684675	7	7.27E-01	0.163337453	7
-0.256184595	10	7.16E+00	0.235287016	10
0.600525555	9	9.09E-02	1	9
0.154949055	22	1.34E+00	0.651785279	22
0.354909373	14	2.51E-01	0.800602588	14
-0.629985001	9	3.62E+01	-0.953049027	9
-0.431186398	8	1.06E+01	-0.672611589	8
-0.321743985	9	8.09E+00	-0.132261114	9
0	6	1.25E+00	0	6
-0.457544634	1	1.74E+00	0	1
-0.377865451	10	1.36E+01	-1	10
-0.501754477	3	3.38E+00	-0.810435038	3
0.026371174	1	7.26E-01	0	1
0	4	1.03E+00	0	4
0.013973623	13	2.30E+00	-0.05973418	13
0.021851256	3	8.78E-01	-0.036716706	3
0	6	1.25E+00	0.007438663	6
-9.37E-05	3	9.30E-01	0.739523718	3
0	5	1.13E+00	0	5
0	9	1.69E+00	0	9
0	10	1.87E+00	0	10
0	8	1.53E+00	0	8
0	22	6.17E+00	0	22
0	18	4.14E+00	0	18
0	15	3.07E+00	0	15
0	26	9.19E+00	0	26
0	8	1.53E+00	0	8
0	9	1.69E+00	0	9
0	4	1.03E+00	0	4
0	3	9.29E-01	0	3
0	5	1.13E+00	0	5
0	4	1.03E+00	0	4
0	8	1.53E+00	0	8
0	5	1.13E+00	0	5
0	6	1.25E+00	0	6
0	6	1.25E+00	0	6
0	5	1.13E+00	0	5
0	7	1.38E+00	0	7
0	6	1.25E+00	0	6
0	4	1.03E+00	0	4
0	5	1.13E+00	0	5
0	8	1.53E+00	0	8

0	5	1.13E+00	0	5
0	9	1.69E+00	0	9
0	12	2.28E+00	0	12
0	8	1.53E+00	0	8
0	22	6.17E+00	0	22
0	18	4.14E+00	0	18
0	15	3.07E+00	0	15
0	26	9.19E+00	0	26
0	8	1.53E+00	0	8
0	9	1.69E+00	0	9
0	4	1.03E+00	0	4
0	3	9.29E-01	0	3
0	5	1.13E+00	0	5
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0	8	1.53E+00	0	8
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0	6	1.25E+00	0	6
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0	7	1.38E+00	0	7
0	6	1.25E+00	0	6
0	4	1.03E+00	0	4
0	5	1.13E+00	0	5
0.004655731	10	1.82E+00	0.79180523	10
-0.153072322	9	3.56E+00	0.141206589	9
-0.498144516	11	3.41E+01	0.236644248	11
-1	9	6.24E+02	-1	9
0	1	7.61E-01	0	1
0	3	9.29E-01	0	3
0	2	8.41E-01	0	2
0.007194922	7	1.34E+00	-0.059580729	7
-0.37015534	8	8.04E+00	-0.399731148	8
-0.957786003	12	7.22E+02	-0.722543722	12
0.367486863	5	3.33E-01	0.780279084	5
-0.157862142	24	4.01E+01	0.18541512	24
-0.031286843	5	1.26E+00	0.040927835	5
-0.466808794	6	7.11E+00	-0.59910492	6
-0.370362178	10	1.30E+01	-0.177397969	10
-0.737629537	17	1.29E+03	-0.605840742	17
0.00547497	18	3.96E+00	0.008703281	18
-0.016323181	5	1.20E+00	1	5
0.14977684	19	1.25E+00	0.060771329	19
0.076197814	22	2.92E+00	0.260511662	22
-0.073452009	27	2.40E+01	0.008750206	27
0.287324853	5	4.35E-01	0.453988141	5
0.274590157	15	4.30E-01	0.39256147	15
0.596923135	50	4.77E-04	0.623033279	50

0	3	9.29E-01	0	3
0.300587261	15	3.57E-01	0.517047721	15
-0.077313623	10	2.80E+00	-0.261305111	10
0.2921962	28	3.24E-01	0.319869081	28
-0.022975229	15	3.62E+00	0.303979006	15
-0.931012537	11	3.90E+02	0.84236691	11
-0.763227822	7	3.17E+01	-1	7
-0.379780888	6	5.15E+00	-0.327412232	6
-0.054518969	4	1.21E+00	-0.419250393	4
-0.033321587	3	1.01E+00	-0.060199355	3
-1	9	4.13E+02	-0.76249342	9
-0.315660085	4	2.61E+00	-0.290075242	4
0.443288453	3	2.97E-01	0	3
-0.619781746	4	6.41E+00	-0.650060961	4
0.092352916	4	7.81E-01	-0.047738493	4
-0.014099763	1	7.81E-01	0.023459091	1
-0.314533606	10	9.73E+00	0.071054844	10
-0.134951402	5	1.78E+00	-0.193682558	5
-0.388048387	6	5.31E+00	-0.600140639	6
-0.473081217	4	4.16E+00	-0.384331978	4
-1	5	7.27E+01	-0.355729365	5
0.158682316	10	8.11E-01	-0.243529377	10
-0.045069703	9	2.10E+00	0.246844626	9
-0.989835148	12	8.75E+02	-1	12
0.021948644	2	8.02E-01	-0.043196212	2
0.031200348	5	1.02E+00	0.113941837	5
0	2	8.41E-01	0	2
-0.227005028	2	1.38E+00	-0.374825175	2
1	131	6.82E-25	2	131
2	4	6.25E-03	2	4
-0.242607312	4	2.10E+00	-0.206746158	4
0.092672769	2	6.87E-01	-0.27031827	2
-0.060070843	4	1.23E+00	-0.009606834	4
-0.193931057	4	1.82E+00	-0.186021018	4
-0.130027225	5	1.75E+00	0	5
0.093928379	7	9.42E-01	0.150505222	7
-0.720004021	6	1.82E+01	-0.49442432	6
-0.509114856	8	1.50E+01	-0.672637283	8
-0.369737688	6	4.96E+00	-0.491701926	6
-0.338791065	5	3.51E+00	-0.779128441	5
-0.189030783	5	2.13E+00	-0.063704802	5
-0.648939788	12	1.13E+02	-0.404096738	12
-0.586809047	7	1.54E+01	-1	7
-0.941444081	12	6.54E+02	-1	12
0.282350987	5	4.42E-01	-0.847981418	5
-0.383051197	6	5.21E+00	0.372793567	6
-0.357425287	7	6.00E+00	-0.211910861	7

0.433801696	5	2.67E-01	0.261885763	5
-0.234047223	5	2.48E+00	-0.663681474	5
-0.037974596	2	9.14E-01	-0.032620043	2
-0.018217735	10	2.05E+00	0.181665766	10
-0.114787552	11	3.93E+00	-0.103759164	11
-0.42892492	4	3.65E+00	-0.041981201	4
0.025989935	15	2.55E+00	0.895137689	15
-0.070432858	4	1.26E+00	-0.004775668	4
-3.15E-05	4	1.03E+00	-0.214823019	4
0.013939633	1	7.42E-01	0	1
-0.200891766	7	3.16E+00	-0.040431981	7
-0.904309254	9	1.38E+02	-0.532940626	9
-0.179593642	4	1.75E+00	-0.182984339	4
0.0078047	8	1.48E+00	0.391908467	8
-0.204361897	13	9.30E+00	-0.175377249	13
-0.26198966	6	3.32E+00	-0.678980582	6
0	3	9.29E-01	-0.066175538	3
-0.728407797	7	2.75E+01	-0.066313726	7
-0.482137005	13	5.49E+01	-0.197014438	13
-0.549949905	4	5.22E+00	-0.932266733	4
-0.123591076	7	2.30E+00	-0.769204764	7
-0.340423951	3	2.23E+00	0	3
0.053823521	5	9.48E-01	0	5
-0.637640968	8	2.67E+01	-0.756662658	8
-0.368894133	4	3.05E+00	0	4
-0.009771531	2	8.59E-01	0	2
-0.120273993	4	1.46E+00	-0.475952064	4
-0.61580975	2	3.24E+00	-0.674789487	2
0	4	1.03E+00	0.028302038	4
-0.332674987	10	1.07E+01	-0.369851965	10
-0.010562239	1	7.76E-01	-0.017539635	1
-0.006513381	2	8.53E-01	-0.010816108	2
-0.177368702	4	1.73E+00	0	4
-0.351108177	5	3.66E+00	-0.203412381	5
-0.335482708	5	3.48E+00	-0.801671285	5
0	1	7.61E-01	0	1
-0.141972005	3	1.34E+00	0	3
-0.123153085	7	2.29E+00	-0.269309772	7
0	2	8.41E-01	0	2
0	3	9.29E-01	-0.034264996	3
-0.227783246	3	1.67E+00	-0.385562746	3
-0.623860869	3	4.63E+00	0	3
-0.024053843	3	9.89E-01	0	3
-0.066758517	2	9.74E-01	-0.083203955	2
-0.066326523	5	1.42E+00	-0.13622643	5
-0.980292142	4	1.86E+01	-0.651333901	4
-0.475428218	8	1.29E+01	-0.352590463	8

-0.113338435	5	1.66E+00	0	5
-0.228190727	8	4.25E+00	-0.136348492	8
-0.216832499	4	1.95E+00	0	4
-0.287066137	10	8.42E+00	-0.648317517	10
0.271640816	5	4.58E-01	-0.270249188	5
-0.594111882	9	3.04E+01	-0.128135385	9
1	2	7.29E-02	0.835377183	2
0	2	8.41E-01	-0.014535314	2
-0.147526147	4	1.59E+00	-0.141308844	4
-0.101833317	6	1.83E+00	-0.058156346	6
-0.222013283	4	1.98E+00	-0.342465599	4
-0.559608453	7	1.37E+01	-0.119493273	7
-0.94858193	7	6.78E+01	-0.817497331	7
-0.173334856	3	1.45E+00	0.248939247	3
-0.980972188	7	7.74E+01	-0.621254558	7
-0.213122414	3	1.61E+00	0	3
0.052356817	5	9.52E-01	0.69853765	5
0.448653567	5	2.54E-01	-0.452707263	5
0.56606528	8	1.21E-01	-0.055190431	8
-0.061466149	6	1.57E+00	-0.045869207	6
-0.770964569	3	6.76E+00	-0.789238482	3
0.025319564	5	1.04E+00	-0.38646803	5
-0.244511694	6	3.11E+00	-0.644825504	6
-0.663933326	12	1.23E+02	-0.667287332	12
-0.473045	12	3.91E+01	-0.342454717	12
-0.121572155	5	1.70E+00	-0.406775878	5
-0.817491805	7	3.96E+01	-0.834560305	7
-0.496230197	1	1.87E+00	-1	1
-0.186706011	5	2.12E+00	-0.415008468	5
0.490288265	18	7.06E-02	0.167424437	18
-0.062083001	8	2.02E+00	-0.503698936	8
-0.564901281	6	1.02E+01	-0.406118876	6
-0.418167863	2	2.10E+00	-0.648088279	2
-0.913777528	7	5.88E+01	-1	7
-0.159651401	5	1.93E+00	0.269885135	5
-0.109094385	5	1.63E+00	0.151193937	5
0	5	1.13E+00	-0.447741228	5
-0.01527639	2	8.70E-01	-0.012709371	2
-0.030252604	2	8.99E-01	-0.280503281	2
-0.935008198	2	6.53E+00	-0.311742185	2
-0.533905448	1	2.00E+00	0	1
0.241531075	2	4.95E-01	-0.270708195	2
0	1	7.61E-01	-0.000769043	1
-0.058790239	4	1.22E+00	0.049610923	4
0.246396889	8	5.06E-01	-0.281367087	8
0.213673382	12	6.30E-01	1	12
-0.210444649	4	1.91E+00	-0.141466341	4

-0.291975186	3	1.97E+00	-0.405482593	3
-0.21801862	2	1.36E+00	-0.300977733	2
-0.00620513	6	1.28E+00	0.413122003	6
0.015771981	1	7.40E-01	-0.060769621	1
-0.293454311	8	5.70E+00	-0.793087888	8
-0.188108414	27	9.24E+01	-0.08553828	27
-0.45014174	5	5.10E+00	-0.426201202	5
-0.074035217	2	9.89E-01	-0.062379239	2
-0.631266912	9	3.65E+01	-0.337688992	9
-0.46975114	2	2.36E+00	-0.699391135	2
-0.453209256	14	6.00E+01	-0.138503333	14
-0.757215207	8	4.56E+01	-0.326816568	8
-0.181021908	4	1.75E+00	-0.009266925	4
-0.716760375	7	2.62E+01	-0.493854343	7
-0.859537956	9	1.11E+02	-0.681480687	9
-0.26304805	3	1.83E+00	-0.098176437	3
-1	6	2.18E+02	-0.674146751	6
0	1	7.61E-01	-0.024121039	1
0	1	7.61E-01	-0.024121039	1
-0.300681029	4	2.50E+00	-0.269298912	4
-0.491410138	10	2.46E+01	-0.63863081	10
-0.020561158	1	7.90E-01	-0.034205926	1
-0.551834896	3	3.85E+00	-1	3
-0.919769036	11	3.66E+02	-2	11
-0.396223412	1	1.56E+00	-2	1
-0.844484842	3	8.17E+00	-0.17378666	3
-0.248168165	10	6.86E+00	-0.28749745	10
-0.50006292	3	3.37E+00	-0.222052996	3
-0.204848594	2	1.32E+00	-0.053021393	2
-0.67866273	6	1.56E+01	0.137752018	6
-2	5	3.36E+02	-1	5
-0.37575904	2	1.92E+00	-0.53069095	2
-0.763531085	6	2.15E+01	-0.23017153	6
-0.244557301	4	2.12E+00	-0.521511562	4
-0.104995859	9	2.82E+00	-0.561873769	9
0.17977857	4	6.03E-01	-0.346607999	4
0.357254372	12	2.66E-01	0.751984989	12
-0.197191056	8	3.70E+00	0.089546843	8
-0.557893131	5	7.30E+00	-0.006770653	5
-0.127472021	4	1.50E+00	-1	4
-0.268819109	2	1.52E+00	-0.680519073	2
-2	2	4.89E+01	-0.888597132	2
-0.2726434	11	9.57E+00	-0.462502473	11
0	1	7.61E-01	0	1
-0.676443914	16	5.57E+02	-1	16
0.203270237	2	5.39E-01	-1	2
-1	13	3.23E+04	-0.942004003	13

-0.937480742	4	1.64E+01	-1	4
0.064500653	7	1.06E+00	0.832564752	7
-0.5857946	3	4.20E+00	0	3
-0.749088568	5	1.38E+01	-0.839994706	5
-0.92044007	5	2.45E+01	0.212598281	5
-0.371381339	4	3.08E+00	0.132997934	4
-1	12	3.63E+03	-0.979206413	12
-0.156878748	15	9.44E+00	-0.423411844	15
0.052328017	1	6.93E-01	0.045024487	1
-0.712176654	5	1.22E+01	-0.022459227	5
-0.19938843	4	1.85E+00	0.02645526	4
-0.510059589	4	4.64E+00	-0.708434659	4
-0.507746984	3	3.43E+00	-0.648460727	3
-1	3	1.53E+01	-1	3
-0.577876675	3	4.11E+00	-0.975402701	3
-0.289484285	3	1.96E+00	-2	3
-0.224796867	13	1.06E+01	0.46391111	13
-0.493302383	12	4.42E+01	-0.393475276	12
-0.984877413	18	1.48E+04	-0.827441683	18
-0.453315286	8	1.17E+01	-0.913821152	8
-0.213701368	7	3.33E+00	0.008304986	7
-0.137460907	6	2.09E+00	-0.015895642	6
-0.073555645	2	9.88E-01	-0.04232105	2
-0.877669642	6	3.28E+01	-1	6
1	19	2.37E-04	2	19
-0.235156421	7	3.63E+00	-0.319483357	7
-0.282982904	7	4.42E+00	0.702137004	7
0.146101181	7	7.60E-01	0.084586236	7
-0.148905753	2	1.17E+00	-0.048027799	2
-0.364788493	9	9.97E+00	-0.297277702	9
0.010672465	2	8.22E-01	0	2
0.125450016	5	7.46E-01	-0.012317334	5
0	6	1.25E+00	-0.215796856	6
-0.174966619	4	1.72E+00	0	4
-0.159239721	3	1.40E+00	0	3
-0.210912247	5	2.29E+00	0.001649354	5
0.09005406	7	9.57E-01	0	7
-0.114938783	10	3.41E+00	-0.119517332	10
1	5	2.66E-02	0.884311551	5
-0.03355309	11	2.49E+00	0.313088638	11
-0.118777732	3	1.26E+00	-0.951808135	3
-0.872283276	7	4.96E+01	-2	7
-0.540730025	7	1.27E+01	-1	7
-0.122097148	10	3.54E+00	-0.347272154	10
0	4	1.03E+00	0.53025932	4
0	2	8.41E-01	-0.025881273	2
-0.047417323	8	1.89E+00	-0.115415501	8

-0.370008168	4	3.07E+00	-0.003749439	4
-0.30892711	8	6.11E+00	-0.772011478	8
-0.366902389	7	6.24E+00	-0.309829136	7
-0.114607552	4	1.44E+00	-0.303104113	4
0.078075326	6	9.37E-01	-0.40246208	6
-0.782280507	6	2.30E+01	-0.836202442	6
-0.783080693	7	3.44E+01	-0.727199778	7
-0.037300325	3	1.02E+00	0.40628793	3
-0.528171746	3	3.62E+00	-0.009372699	3
-0.339456868	5	3.52E+00	0.707059884	5
-0.377262265	2	1.92E+00	0.466224943	2
-0.229861856	3	1.68E+00	0.708394345	3
-0.473529784	3	3.14E+00	0.774000776	3
-0.848965961	4	1.26E+01	-1	4
-0.59611289	4	5.98E+00	-0.422594023	4
0	1	7.61E-01	0	1
-0.02137754	1	7.91E-01	0	1
0	4	1.03E+00	-0.419773818	4
-1	4	3.37E+01	0	4
2	44	2.95E-11	2	44
-0.019405605	4	1.09E+00	0.811717024	4
0.212765745	9	6.00E-01	0.231419404	9
0.307140847	9	3.79E-01	0.063625111	9
-0.456429699	10	2.05E+01	-0.299825881	10
-0.201810748	8	3.78E+00	0.062607001	8
-0.00181853	5	1.14E+00	-0.003024776	5
-0.102470586	5	1.60E+00	-0.158196282	5
0.049075672	9	1.33E+00	-0.306405176	9
-0.408298662	15	5.71E+01	-0.299060803	15
-0.112301636	4	1.43E+00	0	4
-0.196984044	9	4.41E+00	0.010840183	9
0	3	9.29E-01	0	3
-0.244902312	2	1.44E+00	0.120662021	2
-0.420141101	10	1.69E+01	0.188694509	10
-0.074876463	7	1.88E+00	-0.792399508	7
-0.208307307	10	5.57E+00	0.116151446	10
-0.303367065	4	2.52E+00	0.097999457	4
-0.231985099	14	1.34E+01	-0.101623501	14
-0.664568462	13	1.76E+02	-1	13
-0.315759763	7	5.06E+00	-0.100926001	7
0.259368765	5	4.77E-01	1	5
-0.658987065	11	8.43E+01	-0.188260859	11
1	18	5.49E-04	2	18
1	5	1.08E-02	2	5
0.376257499	52	4.06E-02	0.777074107	52
1	31	2.12E-05	1	31
0.596377374	9	9.27E-02	1	9

0	4	1.03E+00	0.173234072	4
-0.073672622	31	4.02E+01	0.082295396	31
0.136963855	17	1.27E+00	0.363028386	17
0.531376001	31	1.31E-02	0.47983124	31
-0.22349712	10	6.03E+00	0.109133336	10
-0.587999603	32	5.12E+04	-0.617812783	32
-0.016920159	3	9.71E-01	-0.027838204	3
-0.967674927	8	1.17E+02	-1	8
-0.720225481	8	3.86E+01	-0.873126098	8
0.358724476	15	2.35E-01	0.684837524	15
0.816901352	11	2.07E-02	1	11
0.5675318	23	2.07E-02	1	23
-0.329203816	20	1.00E+02	-0.5601242	20
-0.134286079	10	3.78E+00	-0.635287948	10
1	11	6.01E-03	1	11
-0.620412944	9	3.46E+01	-0.450863281	9
-0.654717096	3	5.01E+00	-0.813067644	3
-0.828521429	7	4.14E+01	-0.194720824	7
-0.473591027	4	4.16E+00	-0.420003874	4
-0.469218692	6	7.18E+00	-1	6
0.705172732	30	1.54E-03	0.820362034	30
2	6	1.36E-04	3	6
-0.417789307	10	1.67E+01	-0.416386794	10
-0.184712549	10	4.92E+00	-0.152952267	10
-0.164410314	5	1.96E+00	-0.357320706	5
-0.131768949	3	1.30E+00	0.154297512	3
-0.10793702	4	1.41E+00	-0.0864249	4
-0.433611263	3	2.84E+00	-0.644981084	3
-0.140734384	5	1.81E+00	1	5
0.50427253	8	1.59E-01	0.981778316	8
0.000654124	8	1.52E+00	0.131549907	8
0.396072039	12	2.10E-01	0.452693447	12
-0.361626148	5	3.79E+00	0.230843504	5
-0.56123066	6	1.01E+01	-0.394121736	6
-0.474211055	8	1.28E+01	-1	8
-0.335748443	5	3.48E+00	-0.14421271	5
0.205225454	8	6.09E-01	0	8
-0.060151836	5	1.39E+00	-0.165628113	5
-0.163697883	4	1.67E+00	-0.197854616	4
-1	7	9.48E+01	-0.570317466	7
0.282647124	7	4.34E-01	0.365047555	7
-0.506056918	7	1.10E+01	-0.67414663	7
-0.205966104	4	1.89E+00	-0.154942419	4
-1	7	9.70E+01	-0.05724202	7
-0.788802115	6	2.36E+01	-0.810583413	6
-0.01630722	3	9.69E-01	-0.425809439	3
-0.747485561	5	1.38E+01	-0.725448683	5

0.128668676	10	9.50E-01	-0.415733091	10
-0.048785196	7	1.69E+00	-0.330779618	7
-0.462505124	9	1.60E+01	-0.264970177	9
-0.68984206	8	3.37E+01	-0.153068603	8
-0.013476684	9	1.80E+00	0	9
-0.730794235	7	2.77E+01	-0.597715581	7
-0.095502418	11	3.53E+00	-0.433606183	11
-0.252100165	10	7.01E+00	-0.775918437	10
-0.130364443	7	2.36E+00	-0.004786939	7
-0.295120525	9	7.10E+00	-0.000715732	9
-0.411063542	8	9.66E+00	-0.361938564	8
-0.619817798	13	1.32E+02	-0.331718023	13
0	2	8.41E-01	0	2
-0.023578028	2	8.86E-01	0	2
-0.418783318	2	2.11E+00	-0.000104505	2
-0.42496814	2	2.14E+00	-0.829579341	2
0.242207568	6	5.09E-01	0.243566405	6
-0.254354462	2	1.47E+00	-0.175345856	2
-0.00705377	1	7.71E-01	-0.602836307	1
-0.256538425	3	1.80E+00	-2	3
0.098416989	10	1.11E+00	0.652224821	10
0.229515226	5	5.27E-01	0.029078131	5
-0.003193014	3	9.37E-01	-0.005306076	3
0	3	9.29E-01	-0.241392908	3
0	3	9.29E-01	-0.001768256	3
0.094644067	6	8.81E-01	0.52968869	6
0.07185574	3	7.72E-01	0.040055677	3
0	4	1.03E+00	-0.342442534	4
-0.361104024	4	2.99E+00	0.037735611	4
0.614864843	7	1.11E-01	1	7
-0.088045634	5	1.52E+00	-0.131133777	5
-0.256413188	8	4.83E+00	-0.172874397	8
-0.39097503	6	5.37E+00	-0.518901977	6
0.524565471	8	1.45E-01	1	8
1	7	1.67E-02	1	7
0.88805829	8	2.85E-02	0.645072066	8
0.966094624	7	2.63E-02	0.624643312	7
1	7	1.21E-02	3	7
-0.205693928	3	1.58E+00	0.98310652	3
-0.089963809	2	1.02E+00	0	2
-0.195123702	12	7.36E+00	-0.328902532	12
0.287668897	3	4.43E-01	0.257459173	3
-0.395836605	4	3.31E+00	-0.298055231	4
-0.315206844	18	5.67E+01	0.038112027	18
-0.859014467	8	7.20E+01	-0.718868187	8
-1	9	4.48E+02	-1	9
-0.064235872	3	1.10E+00	-0.680163481	3

0	3	9.29E-01	-0.188743014	3
-0.327909502	4	2.71E+00	-0.307921206	4
-0.366974536	6	4.91E+00	-0.558665667	6
-0.114609036	7	2.21E+00	-0.628750639	7
-0.520065564	6	8.67E+00	-0.094001221	6
-0.080796029	4	1.30E+00	0.11199518	4
-0.175987995	3	1.46E+00	0.168109507	3
0.334841786	3	3.92E-01	0.044217443	3
-0.027779276	3	9.98E-01	-0.302233118	3
0.297521708	5	4.20E-01	0.664303443	5
-0.310524729	10	9.52E+00	-0.326404202	10
-0.035365273	22	8.73E+00	-0.372086728	22
0.439226313	10	1.86E-01	0.370505522	10
1	20	3.00E-04	1	20
-0.386284981	3	2.51E+00	0	3
-0.915217913	4	1.54E+01	-0.53377161	4
-0.183186835	8	3.48E+00	-0.236903842	8
-0.500719602	12	4.62E+01	-0.28898438	12
-0.213664271	13	9.87E+00	-0.1493832	13
-0.152044837	23	3.22E+01	-0.373485031	23
0.709030298	40	2.65E-04	0.831303355	40
1	19	3.91E-05	2	19
0.169142873	8	7.16E-01	0.188503208	8
0.150852025	12	9.20E-01	0.190715049	12
0.027813213	13	2.11E+00	0.159803558	13
-0.028063058	1	8.01E-01	0	1
0.370214125	6	3.16E-01	1	6
1	13	6.41E-04	2	13
0.010853975	2	8.21E-01	-0.022621878	2
-0.661862978	9	4.23E+01	-0.406243787	9
-0.686243377	6	1.61E+01	0	6
-0.00710326	5	1.16E+00	0	5
-0.674257609	4	7.53E+00	-0.397503817	4
-0.367538494	9	1.01E+01	-0.538680741	9
-0.029353919	3	1.00E+00	0	3
-0.222586465	4	1.98E+00	-0.291821213	4
-0.688838565	10	6.94E+01	0.06625625	10
-0.015831163	4	1.08E+00	-0.230129658	4
-0.056481102	7	1.75E+00	-0.024806528	7
-1	6	2.02E+02	-0.15349294	6
-0.200702865	3	1.56E+00	0	3
-0.735253616	8	4.13E+01	0.256877449	8
0.907443917	9	2.04E-02	1	9
2	6	1.05E-03	1	6
-0.135016108	9	3.26E+00	-0.276983802	9
-0.349404023	8	7.33E+00	0.993417478	8
0.108217503	3	7.03E-01	0.089646879	3

0.213051669	8	5.88E-01	0.116801971	8
-0.599592121	8	2.25E+01	-1	8
-0.273877751	12	1.18E+01	-0.362244006	12
0.45334387	8	2.00E-01	0.105251568	8
0.269418023	10	4.54E-01	0.050054348	10
0.55014657	13	7.46E-02	0.222790044	13
0.778391392	4	1.03E-01	1	4
0.408014441	21	1.18E-01	0.290735644	21
0.518905019	36	9.43E-03	0.718359414	36
0.207703052	3	5.44E-01	-0.590580088	3
-0.647660692	4	6.96E+00	-1	4
0.441163635	7	2.27E-01	0.014968736	7
1	20	1.21E-05	1	20
0.493916398	3	2.61E-01	1	3
-0.453097026	5	5.15E+00	0.210226156	5
0.149309186	3	6.33E-01	-0.535877562	3
0.302606236	2	4.33E-01	0.741264635	2
-0.63150213	12	1.02E+02	0.668943767	12
-0.299179128	3	2.01E+00	0	3
-0.590313428	4	5.88E+00	-0.008412252	4
-0.107371887	5	1.62E+00	0	5
-0.862675612	8	7.32E+01	-0.776501521	8
-0.013835546	3	9.63E-01	-0.023017072	3
-0.594402807	8	2.20E+01	-0.470680942	8
-0.246334575	3	1.75E+00	-0.040188499	3
-0.092017014	1	8.99E-01	-0.051991865	1
-0.274886673	8	5.25E+00	0.0005158	8
-0.100131796	3	1.20E+00	0	3
-0.457544634	1	1.74E+00	0	1
-0.457544634	2	2.29E+00	0	2
-0.242639301	2	1.43E+00	-0.079871687	2
-1	4	2.35E+01	-1	4
-0.256450611	3	1.80E+00	-1	3
0	1	7.61E-01	0	1
0	3	9.29E-01	0	3
0	2	8.41E-01	0	2
-0.0140758	3	9.64E-01	0	3
-0.038872755	15	4.06E+00	-0.098519479	15
-0.025413781	1	7.97E-01	0	1
0.339066223	12	2.97E-01	0.611763042	12
0.102454812	17	1.66E+00	-0.043193804	17
1	28	1.40E-06	2	28
-0.29900849	5	3.08E+00	0	5
-0.208616517	7	3.26E+00	-0.211674778	7
-0.009708907	4	1.06E+00	0	4
2	43	1.97E-11	2	43
0.153957792	13	9.40E-01	0.345099219	13

0.354810335	104	9.87E-03	0.534057028	104
-0.599243419	2	3.13E+00	-0.06422591	2
0	1	7.61E-01	0.018996355	1
0	2	8.41E-01	0.015291953	2
0.005510007	24	7.10E+00	0.349034231	24
0.218102385	35	8.92E-01	0.454658459	35
0	3	9.29E-01	0	3
0.047512195	53	4.83E+01	0.17572075	53
0.006438397	4	1.01E+00	0.057203151	4
0.055162843	29	6.21E+00	-0.015875474	29
-0.341009655	9	8.88E+00	1	9
0.112990571	24	2.27E+00	0.269532031	24
0.876930794	21	1.40E-03	0.374070458	21
0.457903448	12	1.45E-01	-0.161695467	12
0.33374005	2	4.05E-01	0.135799482	2
0.015361876	2	8.13E-01	0.025537134	2
0.276038929	9	4.41E-01	1	9
-0.33676538	3	2.21E+00	-5.32E-05	3
0.270576231	2	4.65E-01	0.511141074	2
-0.819624223	7	3.99E+01	-0.903918778	7
-0.194802444	9	4.36E+00	0.000976555	9
-0.219366959	5	2.36E+00	0.432096558	5
-0.108705911	7	2.16E+00	-0.714173223	7
-0.374959648	3	2.44E+00	-0.189504679	3
-0.112989334	2	1.08E+00	-0.124545235	2
1	14	9.67E-04	2	14
1	6	1.53E-02	1	6
2	7	1.80E-03	2	7
0.247151346	13	5.18E-01	0.649337268	13
0.850017774	8	3.38E-02	2	8
0.305214231	17	3.34E-01	0.859463183	17
-0.185219905	11	5.85E+00	-0.000205156	11
-0.107969597	11	3.79E+00	0	11
0.32649243	10	3.36E-01	0.956161546	10
0.130397997	6	7.71E-01	1	6
0.28080205	12	4.21E-01	0.835344266	12
1	21	6.30E-05	2	21
-0.243794226	11	8.14E+00	-0.152068742	11
-0.091825878	8	2.31E+00	0.278534235	8
-0.162076321	11	5.14E+00	-0.343885726	11
-0.429398647	16	8.65E+01	-0.307287151	16
-0.204210671	6	2.68E+00	-0.523365581	6
-0.682220772	18	1.20E+03	-0.808098129	18
-0.619644637	7	1.76E+01	-0.436197535	7
-0.012016411	5	1.18E+00	-0.002082986	5
-0.371528656	5	3.92E+00	0	5
-0.218672356	2	1.36E+00	0	2

0.012259767	9	1.59E+00	0.064831145	9
0.031544802	3	8.57E-01	0.959398278	3
-0.372253799	2	1.90E+00	0.046840647	2
-0.740566511	3	6.25E+00	-0.105204153	3
-0.090382821	5	1.53E+00	-0.058562843	5
-0.022138571	2	8.83E-01	-0.069425785	2
-0.696160996	6	1.67E+01	-0.77964906	6
-0.693768359	4	7.98E+00	-0.76662584	4
0.871509678	11	1.52E-02	0.312061383	11
1	5	1.70E-02	2	5
2	17	2.33E-05	2	17
0.106414571	17	1.61E+00	-0.070463122	17
0.900569579	21	1.12E-03	1	21
2	16	2.51E-06	3	16
0.188943982	27	1.10E+00	0.350221185	27
0.3626539	10	2.78E-01	0.745829728	10
-0.458498264	18	1.87E+02	-0.15231016	18
-0.05447042	2	9.48E-01	-0.001907694	2
-1	3	1.49E+01	-0.951273258	3
-0.076722054	2	9.95E-01	-0.000955549	2
0.474909461	15	1.03E-01	0.976341125	15
-0.202152712	13	9.17E+00	0.711089863	13
0.690915708	20	9.60E-03	1	20
0.278181979	19	4.08E-01	0.486333056	19
0.045283653	10	1.47E+00	0.301233435	10
-0.114420536	6	1.92E+00	0.431745187	6
0.230687941	12	5.69E-01	0.212957879	12
0.124186747	3	6.75E-01	0.37064915	3
-0.488783447	7	1.03E+01	-1	7
-0.283486752	5	2.92E+00	-0.330780149	5
0.072389583	2	7.18E-01	-9.97E-05	2
-0.384253031	14	3.76E+01	0.247307013	14
-0.853388626	6	3.00E+01	-0.20169979	6
-0.252789375	13	1.27E+01	-0.430689658	13
-0.325813971	14	2.53E+01	0.231473854	14
-0.256044678	12	1.06E+01	-2	12
-1	12	1.21E+03	-0.995134192	12
-0.538595705	10	3.15E+01	-0.552152817	10
-1	11	2.20E+03	-0.620689024	11
-0.210003729	17	1.98E+01	0.222942948	17
0.163472779	3	6.10E-01	2	3
-0.03367253	7	1.59E+00	0.081834247	7
0	1	7.61E-01	-0.699391135	1
-0.405275687	1	1.59E+00	0	1
-0.288277402	5	2.97E+00	-0.114971027	5
-0.552253129	3	3.85E+00	-0.006019107	3
-0.14596784	5	1.85E+00	-0.355776426	5

-0.010849301	2	8.61E-01	-0.243172218	2
-0.046838301	3	1.05E+00	-0.217284231	3
-0.764765296	5	1.46E+01	-0.019584025	5
-0.562655423	5	7.42E+00	-0.70284641	5
-0.644829417	18	8.77E+02	-0.144854068	18
-0.856095216	3	8.42E+00	-0.041667263	3
-0.521342401	3	3.56E+00	-0.511984288	3
-1	7	3.45E+02	-1	7
-0.08829289	5	1.52E+00	-0.422646601	5
2	27	2.24E-09	3	27
-0.032095057	1	8.07E-01	-0.026558041	1
-0.479377553	4	4.23E+00	-0.411951894	4
-1	13	1.16E+04	-1	13
0.186707375	2	5.59E-01	0	2
-0.041115457	4	1.16E+00	-0.913074833	4
0.007864766	3	9.11E-01	-0.023230808	3
-0.369973037	15	4.34E+01	0.178216161	15
-0.052913983	8	1.94E+00	-0.093069426	8
-0.806251655	14	6.56E+02	-0.583442541	14
-0.763528908	7	3.17E+01	-0.25773524	7
0.70885913	7	7.56E-02	0.588273594	7
1	12	3.30E-03	1	12
0.083074173	17	1.94E+00	0.918520256	17
1	6	2.56E-02	2	6
-0.00196997	2	8.45E-01	-0.241510262	2
0.724755208	5	1.01E-01	-0.166299896	5
0.567974653	2	2.42E-01	0.310406615	2
0.031473303	3	8.57E-01	0.010114347	3
-0.77900513	9	7.48E+01	0.445951034	9
-0.466446267	12	3.76E+01	-0.39139846	12
1	12	5.71E-04	2	12
3	1	4.62E-03	3	1
0.791457861	2	1.48E-01	0.768940349	2
-0.491172131	9	1.84E+01	-0.893999194	9
0.795058211	24	1.65E-03	1	24
0.469036797	8	1.87E-01	1	8
-0.247022507	4	2.13E+00	-0.002891793	4
0.546905133	13	7.62E-02	0.442196334	13
-0.086384296	12	3.83E+00	0.001492214	12
1	3	2.04E-02	0.651288212	3
1	10	2.66E-03	1	10
0.357194895	9	2.97E-01	-0.19111005	9
0.543437162	5	1.85E-01	-0.697868157	5
-0.02657597	5	1.24E+00	-0.070305832	5
-0.15706209	4	1.63E+00	-0.264872919	4
-0.187098924	3	1.50E+00	0.311845165	3
0.066559233	8	1.13E+00	0.001302255	8

-0.141802744	8	2.89E+00	-0.103218898	8
-0.086250984	14	4.99E+00	-0.024963756	14
0.052256408	22	3.69E+00	-0.155861954	22
0.034020141	11	1.70E+00	0.602209609	11
-0.084067624	5	1.50E+00	0.393982526	5
-0.111326545	8	2.52E+00	0.244023352	8
-0.129905909	9	3.18E+00	-0.040496814	9
-0.217564496	6	2.81E+00	-0.348933603	6
-0.407015031	9	1.22E+01	-0.575087213	9
-0.097577779	1	9.09E-01	-7.51E-05	1
-0.150761584	6	2.20E+00	0.767974066	6
0.096109184	4	7.73E-01	0.231444584	4
0	3	9.29E-01	0	3
-0.25487019	3	1.79E+00	-0.349291733	3
-0.288642072	4	2.41E+00	0.012889733	4
0.270728347	108	3.10E-01	0.147750754	108
-0.871070408	4	1.35E+01	0.146169308	4
-0.029515888	2	8.97E-01	-0.056346561	2
1	8	1.11E-02	-0.762564945	8
-0.651377027	6	1.41E+01	-0.651698916	6
0.253934284	9	4.91E-01	0.420054114	9
0.590816722	65	8.16E-05	0.406392496	65
0.358914324	10	2.84E-01	0.337632676	10
0.31205077	8	3.77E-01	-0.134806066	8
0.058690793	24	4.04E+00	-0.004355351	24
0.865212704	27	3.92E-04	0.811053464	27
0.123932413	9	9.24E-01	1	9
-0.307354165	5	3.16E+00	-0.279768985	5
-0.40279905	6	5.61E+00	-0.140682047	6
-0.065779556	1	8.58E-01	-0.108326956	1
-0.500663307	7	1.08E+01	0.138139466	7
-0.033340597	3	1.01E+00	0	3
-0.240761544	4	2.09E+00	-0.359229745	4
0.194123186	6	6.09E-01	-0.360205596	6
-0.110127341	5	1.64E+00	-0.077357209	5
0.077066067	7	1.01E+00	-0.169604873	7
-0.357493067	5	3.74E+00	-0.610288803	5
0.551309138	8	1.29E-01	-0.523177858	8
0.830008535	8	3.70E-02	1	8
-0.125932379	11	4.19E+00	-0.750559424	11
-0.037519855	2	9.13E-01	0	2
2	42	6.59E-15	3	42
0.002104897	3	9.24E-01	-0.620221391	3
-0.450560162	3	2.96E+00	-0.273781434	3
0.733818315	4	1.17E-01	1	4
2	21	3.19E-06	2	21
0.048343431	2	7.57E-01	0.008273547	2

0.550888048	16	5.33E-02	2	16
0.125672312	3	6.72E-01	0.148461822	3
-0.384937845	5	4.10E+00	-0.749259813	5
-0.061767411	5	1.39E+00	0.316024865	5
-0.263129239	2	1.50E+00	-5.10E-05	2
-0.238122247	7	3.68E+00	0	7
-0.214255292	6	2.78E+00	0.12904608	6
-0.396259905	3	2.58E+00	-0.617685648	3
0.288116808	11	4.07E-01	-0.005110925	11
0.095635887	4	7.74E-01	-0.008238232	4
0.008701118	6	1.21E+00	0	6
-0.559228549	12	6.57E+01	-0.178540447	12
-0.411845878	13	3.50E+01	-1	13
0.312952662	11	3.54E-01	0.253292159	11
0.18096857	6	6.39E-01	0.328462074	6
0.812314331	11	2.13E-02	0.263869103	11
0.372310769	10	2.64E-01	0.307363898	10
-0.046002411	4	1.18E+00	-0.169224598	4
-0.557020795	8	1.86E+01	-0.408357407	8
-0.180641426	5	2.07E+00	-0.005484814	5
0.429824172	13	1.61E-01	1	13
-0.756109075	7	3.08E+01	-0.716930597	7
0.436853171	11	1.76E-01	0.518682434	11
-0.569892233	18	4.70E+02	-0.158330458	18
0.7414634	10	3.81E-02	2	10
0.447628055	12	1.54E-01	0.797562458	12
-0.047157608	6	1.49E+00	0.532623096	6
-0.009461639	4	1.06E+00	0.02701142	4
-0.082033397	3	1.15E+00	-0.049682801	3
-0.368130953	8	7.97E+00	-0.172366577	8
-0.594191384	10	4.22E+01	0.219049424	10
-0.074615518	4	1.28E+00	0.048719064	4
0	3	9.29E-01	0	3
-0.226196605	8	4.22E+00	0.124766282	8
0.269945661	7	4.57E-01	0.119452826	7
-0.256435003	40	2.69E+03	-0.213222033	40
0.09828898	5	8.17E-01	0.344902081	5
0.701091506	21	7.40E-03	1	21
2	16	3.59E-06	2	16
0.161531495	13	8.96E-01	0.251865272	13
0.076482742	19	2.35E+00	0.875975446	19
-0.407556222	9	1.23E+01	0.352904594	9
0.020787276	10	1.67E+00	0.921885855	10
0.364659499	7	3.10E-01	1	7
-0.311081028	6	3.99E+00	-0.508513077	6
-0.455381618	21	4.13E+02	-0.36012844	21
0.850206877	10	2.15E-02	0.515210428	10

0.661894743	46	2.32E-04	0.504298247	46
0.438298836	8	2.14E-01	0.295011299	8
0.267848149	12	4.55E-01	1	12
1	14	2.37E-04	1	14
-0.189094829	2	1.27E+00	-0.654641092	2
0.255214148	20	4.99E-01	0.0310642	20
0.133490919	3	6.59E-01	1	3
0.839874046	5	6.87E-02	2	5
0.604387707	6	1.32E-01	0.91141601	6
0.836446008	4	8.66E-02	0.057799922	4
-0.242853145	13	1.19E+01	-0.165033396	13
-0.268918024	13	1.40E+01	0.184842259	13
-0.322707453	13	1.98E+01	-0.285125134	13
-0.287007614	3	1.95E+00	-5.73E-05	3
1	5	2.09E-02	0.741962133	5
0.086188905	8	1.04E+00	-0.292225466	8
0.895221549	5	5.71E-02	0.799885859	5
0.174267063	18	9.74E-01	0.768085831	18
0	2	8.41E-01	0	2
-0.142733321	6	2.13E+00	0.085615023	6
0.63023771	15	3.37E-02	1	15
0.127202182	16	1.30E+00	-0.173760138	16
-0.496042186	9	1.89E+01	-0.250347983	9
-0.879581514	6	3.30E+01	0.494280074	6
-0.229556505	5	2.44E+00	0.537862634	5
0.503516205	21	4.79E-02	0.75397756	21
0.807221987	20	3.34E-03	0.741437596	20
0.528681739	12	9.48E-02	1	12
-0.422258607	5	4.64E+00	-0.476625285	5
0.535643152	7	1.54E-01	0.916406652	7
-0.004461601	3	9.40E-01	-0.007414185	3
0.457437327	5	2.46E-01	0.938538845	5
1	12	1.87E-03	1	12
1	12	4.36E-04	2	12
-0.868656524	10	1.78E+02	-0.454054983	10
-2	30	1.01E+10	-1	30
-0.581094241	23	2.58E+03	-1	23
-0.062394119	2	9.64E-01	-0.042892477	2
1	6	1.04E-02	1	6
0.064558972	21	3.03E+00	0.27778018	21
-0.458075664	7	9.06E+00	0.046972714	7
-0.004481411	1	7.68E-01	0	1
0	1	7.61E-01	-0.073114059	1
-1	3	2.82E+01	-1	3
-0.626908266	5	9.19E+00	0.076497868	5
-0.179285172	9	4.04E+00	-0.800485969	9
-0.327741929	9	8.32E+00	-0.026649953	9

-0.340195083	4	2.81E+00	-0.507913783	4
0.715796661	23	4.55E-03	1	23
0.045795963	11	1.59E+00	-0.319542847	11
-0.531238202	8	1.66E+01	-1	8
-0.260784391	6	3.31E+00	-1	6
-0.44926524	20	2.97E+02	-0.418934304	20
-0.302485841	2	1.63E+00	-0.665479835	2
0.112052142	10	1.04E+00	-0.258509311	10
-0.757553105	6	2.10E+01	0.059680612	6
0.248477917	13	5.14E-01	0.540001004	13
0.006199782	4	1.01E+00	-0.188760138	4
-0.213819715	6	2.78E+00	-0.193567003	6
0.840504256	24	1.02E-03	1	24
-0.524963985	2	2.66E+00	-0.056833459	2
-0.021948827	8	1.69E+00	-0.099699235	8
0.353670455	4	3.61E-01	0.079214879	4
2	29	6.79E-10	2	29
0.266942538	5	4.65E-01	-0.209903331	5
-0.389885319	4	3.25E+00	-0.821825512	4
0.141481839	8	8.11E-01	2	8
-1	15	1.72E+04	-1	15
-0.367059011	4	3.04E+00	-0.101387175	4
0.396051572	8	2.59E-01	3	8
0.165052188	6	6.78E-01	0.89936492	6
-0.216994837	11	7.00E+00	-0.335217697	11
-0.128144458	4	1.50E+00	-0.094388358	4
-0.270265173	9	6.29E+00	0.318483317	9
-0.610108005	7	1.69E+01	-0.347451035	7
-1	11	5.83E+03	-2	11
-0.361895987	5	3.80E+00	1	5
0.00837033	23	6.25E+00	0.408074978	23
-0.103865258	6	1.84E+00	-0.282884364	6
-0.152053878	5	1.88E+00	-0.612136422	5
0.026517149	8	1.36E+00	-0.165446238	8
-0.352969501	10	1.19E+01	-0.644780564	10
-0.410502269	10	1.61E+01	0.446243366	10
-0.327796973	6	4.24E+00	-0.627646756	6
-0.332664126	16	4.17E+01	0.545184346	16
-0.206258244	19	2.74E+01	0.15393287	19
0.065444267	11	1.43E+00	1	11
0.30503308	9	3.83E-01	2	9
0.682470101	10	5.19E-02	0.168491472	10
0.332050635	13	3.01E-01	0.56290988	13
-0.558506879	18	4.28E+02	0.327473026	18
0.442068163	4	2.78E-01	-0.04966571	4
-0.59699104	5	8.32E+00	0.165777902	5
0.718206689	11	3.61E-02	0.650590533	11

-0.526032177	24	1.98E+03	0.03101958	24
0.664160507	26	4.85E-03	0.961224544	26
0.864259077	7	3.99E-02	1	7
-0.373524992	3	2.43E+00	0.510086383	3
-0.092725226	19	1.02E+01	-0.000365594	19
0.372019063	32	1.04E-01	0.563282762	32
-1	17	6.34E+04	-1	17
-2	8	3.23E+03	-0.15896144	8
2	10	1.11E-04	3	10
2	3	2.70E-03	3	3
0.641244783	8	8.62E-02	2	8
0.582783437	5	1.62E-01	0.161023584	5
1	5	1.08E-02	0.884747853	5
-0.352281087	4	2.91E+00	-0.414194863	4
-0.110998048	18	1.04E+01	0.066514981	18
-0.442167266	5	4.96E+00	-0.968863942	5
-0.341811552	9	8.91E+00	-0.010050264	9
0.885491105	4	7.49E-02	2	4
1	11	7.13E-03	1	11
3	11	6.20E-08	3	11
0.272097197	4	4.59E-01	1	4
0.086249537	5	8.50E-01	0.524503852	5
0.418315479	27	7.46E-02	0.338523223	27
0.947871839	6	3.69E-02	0.881683328	6
0.406412081	9	2.34E-01	0.532239181	9
-0.930324255	9	1.56E+02	-0.576558825	9
0.370235061	237	2.00E-05	0.500236765	237
1	12	4.86E-04	2	12
-0.120732355	7	2.27E+00	0.916490976	7
2	41	8.38E-12	1	41
0.173827802	7	6.78E-01	-0.119085121	7
3	18	9.55E-10	3	18
-0.211400292	11	6.78E+00	-1	11
1	15	1.05E-04	2	15
0.85563484	52	1.49E-06	2	52
2	11	6.52E-05	3	11
-0.59857433	17	4.30E+02	-0.037273033	17
2	12	2.73E-04	2	12
-0.213919555	6	2.78E+00	-0.583763654	6
0.31789953	3	4.10E-01	0.667240549	3
-0.890801529	18	6.76E+03	-0.17473995	18
-0.331122909	4	2.73E+00	-0.59705904	4
0	1	7.61E-01	0.046542818	1
-0.338616789	5	3.51E+00	-0.145147242	5
0.285029781	14	4.03E-01	0.414829903	14
0.315321042	31	2.30E-01	0.07935028	31
-0.114367167	5	1.66E+00	-0.067242014	5

-0.502700801	4	4.54E+00	-0.313567095	4
-1	5	5.92E+01	0.603461801	5
-0.454776572	4	3.94E+00	0.01953888	4
1	10	4.76E-03	1	10
2	25	2.90E-11	3	25
0.258981324	7	4.78E-01	-0.44174982	7
0.143877646	10	8.77E-01	1	10
-0.599511014	6	1.17E+01	-0.885337858	6
-1	10	1.19E+03	-1	10
1	35	5.63E-09	2	35
2	34	5.63E-13	3	34
-0.219129191	15	1.47E+01	0.677150697	15
0.440906219	31	4.35E-02	1	31
0.342906225	4	3.73E-01	1	4
1	5	1.21E-02	2	5
0.586275081	13	5.92E-02	0.89884482	13
0.212050588	14	6.61E-01	1	14
-0.000503396	8	1.53E+00	0.742827668	8
1	13	1.21E-03	2	13
-0.577875496	8	2.04E+01	-0.748962477	8
-0.194911438	10	5.19E+00	-0.057373529	10
-0.425137144	15	6.44E+01	-0.108546136	15
-0.430226423	8	1.05E+01	-0.293397792	8
0.719170113	13	2.53E-02	2	13
0.380849257	8	2.77E-01	1	8
0.784829371	67	3.35E-07	1	67
0.569103246	6	1.51E-01	0.913657839	6
0.433811406	17	1.21E-01	0.75261183	17
-0.258106213	6	3.27E+00	-0.584596517	6
-0.087471477	9	2.59E+00	0.208052758	9
0.350601375	5	3.52E-01	2	5
-0.105975312	8	2.46E+00	1	8
-0.256414256	6	3.25E+00	1	6
0.63111183	5	1.38E-01	0.053991857	5
0.410965512	6	2.72E-01	0.464186504	6
0.92454248	15	4.10E-03	1	15
2	10	4.43E-06	2	10
-1	2	9.83E+00	-2	2
-0.748767122	2	4.34E+00	-0.819469967	2
-0.84629222	5	1.91E+01	-0.991792482	5
0.508288072	26	2.85E-02	0.286532726	26
-0.230551992	4	2.03E+00	1	4
2	47	7.18E-12	2	47
-1	1	6.85E+00	-0.215741907	1
2	7	1.70E-04	2	7
0.571580354	25	1.56E-02	0.859767734	25
-0.019761123	1	7.89E-01	0.032908201	1

0.542556402	4	2.06E-01	0.982136097	4
1	3	2.34E-02	2	3
2	4	2.69E-03	2	4
1	5	2.83E-02	0.65171354	5
0.813031767	12	1.72E-02	0.952999348	12
-0.220670113	9	4.94E+00	-0.003329676	9
-1	5	4.33E+01	-2	5
-0.624390421	6	1.28E+01	-0.490148875	6
-0.138764927	8	2.85E+00	-0.415748247	8
-0.410221804	8	9.62E+00	-0.110769679	8
0.109232892	31	3.55E+00	0.303800189	31
0.287612123	9	4.17E-01	0.725900371	9
0.071078352	14	1.72E+00	0.095679857	14
0.21138425	17	7.02E-01	0.680132811	17
0.58806332	5	1.59E-01	1	5
-0.079793316	12	3.68E+00	-0.124119507	12
-0.46456934	8	1.23E+01	0.305239191	8
2	33	1.19E-09	3	33
0.290732759	3	4.40E-01	0.226527198	3
0.634199026	4	1.57E-01	0.481782602	4
1	8	4.51E-03	1	8
3	6	1.06E-04	3	6
0.200739133	10	6.51E-01	0.229931091	10
-0.609392939	6	1.21E+01	-0.896387291	6
1	9	1.14E-02	0.135302698	9
0.008502657	4	1.00E+00	0	4
0.119553764	11	1.05E+00	0.018568294	11
0.851201115	10	2.14E-02	0.867350403	10
-0.276314069	8	5.28E+00	0.2591121	8
0.797334781	1	1.80E-01	0	1
0.467710895	7	2.03E-01	2	7
0.024372708	6	1.14E+00	0.682396294	6
-0.500803425	11	3.46E+01	0.965538691	11
0.161952477	7	7.12E-01	0.464393075	7
0.98835537	9	1.38E-02	2	9
1	6	2.33E-02	0.890334114	6
0.139854656	3	6.48E-01	-0.098030984	3
0.146768031	5	6.95E-01	0.180519431	5
2	11	6.91E-05	0.965937252	11
0.233277342	5	5.21E-01	0.793862146	5
-0.264834421	3	1.84E+00	1	3
0.998460397	11	7.46E-03	0.969623834	11
-0.000979972	9	1.70E+00	0.54923709	9
0.675138107	10	5.40E-02	0.673808525	10
2	14	8.05E-06	2	14
1	12	3.23E-04	3	12
2	3	1.06E-02	3	3

0.595336258	6	1.37E-01	0.523886008	6
-0.12627244	2	1.11E+00	-0.167405351	2
-0.700459047	5	1.18E+01	-0.648182101	5
-0.13408402	8	2.79E+00	-0.119420261	8
-0.514044486	8	1.53E+01	-1	8
-0.565108752	8	1.93E+01	0.158422491	8
-0.141831769	2	1.15E+00	0.016829986	2
0.853635553	18	3.45E-03	2	18
1	5	9.96E-03	1	5
0.072530421	3	7.71E-01	0.023107194	3
-0.509117237	5	6.21E+00	-0.07490002	5
-0.353008742	5	3.69E+00	0.063815393	5
-0.33467856	3	2.20E+00	-0.047738209	3
-0.447723121	4	3.86E+00	-0.44093702	4
-0.813629164	5	1.71E+01	-0.439962116	5
0.151613324	6	7.13E-01	0.381731019	6
-0.228048644	9	5.12E+00	-0.42139638	9
-0.256990578	3	1.80E+00	-0.184888026	3
-0.363834094	6	4.85E+00	-0.163145062	6
0.330894851	10	3.29E-01	0.708755515	10
-0.629722161	9	3.62E+01	-0.741712475	9
0.124941076	7	8.29E-01	-0.117356156	7
-0.691089416	4	7.92E+00	-0.40109107	4
-0.309083856	3	2.06E+00	0.195254422	3
-0.334484852	21	1.32E+02	0.35965588	21
-0.197666202	13	8.91E+00	0.247321344	13
0.43859731	7	2.29E-01	0.843573858	7
0.411857849	7	2.56E-01	0.179972501	7
3	55	1.13E-23	3	55
0.415214179	4	3.01E-01	0.05187512	4
1	8	8.05E-03	1	8
2	14	9.28E-06	3	14
1	116	2.71E-22	2	116
-0.377476427	7	6.51E+00	-0.591725107	7
0	2	8.41E-01	0	2
-0.445154036	7	8.60E+00	-0.422618686	7
-0.606884747	3	4.43E+00	-0.497826574	3
-0.034643558	4	1.14E+00	0	4
-0.077224881	4	1.29E+00	0.254810146	4
-0.736296585	6	1.94E+01	0.121906065	6
0.719269094	37	3.78E-04	0.918815392	37
-0.243556517	11	8.12E+00	-0.027518374	11
-0.180166411	3	1.48E+00	-0.133106918	3
-0.017836542	1	7.86E-01	0	1
-0.895417321	7	5.45E+01	-0.679966587	7
-0.025569964	10	2.13E+00	-0.415727524	10
-0.016847888	5	1.20E+00	0.111806494	5

0.405029998	11	2.11E-01	1	11
0.495344975	10	1.39E-01	0.91119776	10
0.233994282	6	5.25E-01	1	6
0.291979501	2	4.44E-01	0.159381476	2
1	9	2.28E-03	1	9
0.390679231	5	3.08E-01	0.547297822	5
0.050852013	4	8.83E-01	2	4
-1	3	1.85E+01	0.320222238	3
-0.44968052	7	8.76E+00	-0.294739134	7
-0.006537725	3	9.45E-01	-0.003670365	3
-0.268551298	6	3.40E+00	-0.031455639	6
-0.237574548	2	1.42E+00	-0.064859156	2
0.644973326	17	2.26E-02	2	17
-0.374027204	5	3.95E+00	0.963175621	5
-0.238896949	26	1.39E+02	0.138137293	26
0.546998272	14	6.83E-02	0.105124141	14
0.558383575	2	2.47E-01	-1	2
0.117453097	10	1.01E+00	0.730217063	10
0.380653266	3	3.49E-01	2	3
-0.643157649	3	4.87E+00	2	3
0	1	7.61E-01	0.698622093	1
-0.006495604	2	8.53E-01	-0.712473111	2
-0.024674063	2	8.88E-01	-0.009110257	2
-0.046984312	3	1.05E+00	0.191537774	3
1	9	1.30E-02	0.643432475	9
2	5	3.23E-03	2	5
0.433569988	6	2.50E-01	0.990031186	6
-0.150131538	4	1.60E+00	-0.052957906	4
0.643005142	24	8.26E-03	1	24
0.221915614	15	6.27E-01	0.612705483	15
-0.50090171	17	1.98E+02	0.171857427	17
1	7	1.83E-02	1	7
0.711149568	11	3.76E-02	0.381932446	11
0.544103389	19	4.05E-02	0.638037122	19
-0.214455494	4	1.94E+00	-0.262694868	4
-0.935384058	10	2.53E+02	-0.807535396	10
-0.57847979	17	3.67E+02	-0.441384132	17
-1	3	1.65E+01	0.18811432	3
-0.07587413	6	1.66E+00	0.208691029	6
-0.240336232	5	2.53E+00	-0.207952465	5
-0.056790649	2	9.53E-01	0	2
-0.368326001	7	6.27E+00	-0.173090699	7
-0.975239128	10	3.12E+02	-0.264505385	10
-1	16	8.58E+03	-0.137839665	16
-0.837463293	7	4.30E+01	-0.361547791	7
-1	10	5.44E+02	-1	10
-0.906090613	7	5.69E+01	-1	7

-0.391634543	7	6.90E+00	-0.062735729	7
-0.639532658	7	1.91E+01	-0.709823338	7
-0.644866736	8	2.76E+01	-1	8
-1	11	5.94E+02	-0.772795086	11
-0.515411691	4	4.71E+00	-0.320742433	4
-0.357479839	7	6.00E+00	-0.482549329	7
-0.075744055	15	5.28E+00	0.062431548	15
-0.078544738	21	1.17E+01	0.016187622	21
-0.430506735	11	2.33E+01	-0.250112846	11
1	18	8.71E-04	0.871984657	18
0.735744378	6	8.11E-02	-0.041025977	6
1	5	2.08E-02	0.852264681	5
0.034477288	17	2.85E+00	0.8524126	17
0.898466594	38	1.82E-05	1	38
0.189130284	4	5.87E-01	0.287951944	4
0.523977491	15	7.21E-02	2	15
0.564809359	1	2.74E-01	0.731551304	1
0.67104518	4	1.41E-01	2	4
0.652395434	6	1.11E-01	2	6
0.42238893	7	2.45E-01	0.749347641	7
2	6	1.97E-03	2	6
-0.196184813	12	7.41E+00	0.048406222	12
0.516759414	5	2.02E-01	-0.557454471	5
0.599784499	9	9.12E-02	0.567236103	9
-0.621330463	11	6.82E+01	0.112121509	11
0.322049389	11	3.36E-01	0.199712488	11
0.588446972	7	1.24E-01	0.52154762	7
0.153432686	14	9.83E-01	0.754737333	14
0.016808092	9	1.56E+00	-0.101257874	9
0.356570786	2	3.85E-01	-0.259029975	2
-0.618933735	7	1.75E+01	-0.695654872	7
-0.583337337	7	1.52E+01	-0.261983471	7
-0.131325986	11	4.32E+00	-0.575663022	11
-0.038516554	3	1.03E+00	-0.194697239	3
0	5	1.13E+00	0	5
-0.959362416	4	1.75E+01	-0.567226834	4
-0.481450269	7	9.98E+00	-0.333116746	7
-0.395178256	11	1.91E+01	-0.185723076	11
0.021618553	10	1.67E+00	-0.813090639	10
-1	5	3.90E+01	-0.774010802	5
-0.262927262	12	1.11E+01	-0.224367544	12
-0.285126683	3	1.94E+00	0.917201677	3
-0.082624474	4	1.31E+00	0	4
0.018158625	1	7.37E-01	-4.52E-05	1
-0.735226162	22	8.51E+03	-0.233049926	22
-0.66815527	6	1.50E+01	0.080424613	6
-0.482858931	5	5.68E+00	-0.007560043	5

-0.717861401	3	5.90E+00	-0.518823038	3
-0.590439129	7	1.56E+01	-0.017185236	7
-0.303848443	3	2.03E+00	0.057047943	3
-0.03071755	1	8.05E-01	0.102038198	1
0.398115576	5	3.00E-01	-0.288858168	5
-0.657551995	5	1.02E+01	1	5
-0.238526621	3	1.72E+00	-0.291324664	3
0.080713604	4	8.09E-01	-0.302969379	4
-0.119602992	3	1.26E+00	-0.1703987	3
-0.041787849	5	1.30E+00	-0.493443945	5
0.099373067	3	7.20E-01	0.286578236	3
0.058700115	5	9.32E-01	0.093845401	5
-0.026080349	2	8.91E-01	-0.041606738	2
-0.259790912	5	2.70E+00	-0.671619312	5
0.797334781	1	1.80E-01	0	1
0	3	9.29E-01	0	3
-0.699012451	5	1.17E+01	-0.92305023	5
-0.206939932	5	2.26E+00	-0.317357875	5
0.306357982	4	4.15E-01	-0.67622868	4
0	3	9.29E-01	-0.205830057	3
-0.037805805	2	9.14E-01	0.035901191	2
0.402630656	5	2.96E-01	-0.513544453	5
0.447074181	4	2.74E-01	0.083720293	4
0.741740412	8	5.49E-02	1	8
-0.428816407	3	2.80E+00	-0.527819152	3
-0.462386164	9	1.60E+01	-0.896809719	9
0.106180439	2	6.67E-01	-0.013342357	2
0	1	7.61E-01	0.040283797	1
-0.909750881	3	9.66E+00	-0.247082339	3
-0.708877088	2	3.98E+00	-1	2
-0.003862923	5	1.15E+00	-0.213306949	5
-1	5	3.99E+01	-1	5
-2	4	1.21E+02	-0.648265941	4
0.047228563	4	8.93E-01	0.70873436	4
-1	6	7.20E+01	0	6
-1	2	8.90E+00	-0.670191764	2
-0.151413446	2	1.17E+00	-0.912967999	2
-0.896908109	3	9.35E+00	-2	3
-0.718031614	7	2.63E+01	-0.337411178	7
-0.139380104	4	1.55E+00	-0.31873654	4
0	2	8.41E-01	-0.551020453	2
0	6	1.25E+00	-0.010444126	6
-0.208916833	6	2.73E+00	0	6
-0.027783625	3	9.98E-01	0.012339479	3
0.358525238	7	3.18E-01	1	7
0.461630511	6	2.25E-01	0.097283373	6
0.035940553	1	7.13E-01	-0.132211213	1

-0.122099607	5	1.70E+00	-0.453086989	5
-0.036315178	7	1.61E+00	0.567921818	7
-0.016541409	2	8.72E-01	5.16E-05	2
-0.278740238	4	2.34E+00	-1	4
0.47140536	7	2.00E-01	0.508322477	7
-0.146163665	5	1.85E+00	0.472078237	5
-0.71069228	10	7.78E+01	0.162733074	10
-0.15492554	6	2.23E+00	0.004150571	6
-0.192293908	3	1.52E+00	-0.706816128	3
-0.353581277	4	2.92E+00	-0.035248607	4
0.442903473	22	7.92E-02	0.343680288	22
-0.436461119	4	3.73E+00	-0.847535911	4
-0.484826051	4	4.30E+00	-0.558687716	4
-0.600573515	4	6.06E+00	-1	4
0.033512398	4	9.30E-01	-0.177970801	4
-0.278285654	3	1.90E+00	-0.007812638	3
-0.341599553	2	1.78E+00	-0.034756618	2
-0.150111176	5	1.87E+00	-0.164963178	5
-0.127458616	4	1.50E+00	0	4
-0.772885954	5	1.50E+01	0	5
0.245212413	6	5.03E-01	-0.118258947	6
0.13638185	4	6.86E-01	-0.372148002	4
0.234855497	5	5.18E-01	0.715303261	5
-1	6	7.19E+01	-0.127361144	6
-0.228734743	7	3.54E+00	0.353092934	7
-0.03822643	9	2.03E+00	-0.039071247	9
0.178824709	8	6.86E-01	0.076065881	8
-0.423423949	2	2.13E+00	-0.483973026	2
-2	4	4.14E+02	-1	4
-0.31115962	2	1.66E+00	-0.058080924	2
-0.102319057	1	9.16E-01	-0.043051524	1
-0.382406372	5	4.07E+00	-0.714557257	5
-1	1	7.62E+00	-0.037060762	1
-0.026155956	3	9.94E-01	-0.226804659	3
-0.302252782	5	3.11E+00	-0.206677602	5
-0.654410275	3	5.01E+00	-0.358940954	3
-0.632246222	3	4.73E+00	-0.39111791	3
-0.323238499	11	1.27E+01	-0.240579711	11
0	1	7.61E-01	-0.024785345	1
-0.294842473	7	4.64E+00	0.006936412	7
-0.289248051	2	1.59E+00	-0.789081581	2
-0.498717009	4	4.48E+00	-0.403931779	4
-0.578657866	6	1.08E+01	-0.330037895	6
-0.200622485	3	1.56E+00	-0.368608533	3
-0.177277383	17	1.53E+01	-0.30957185	17
-0.001405682	1	7.63E-01	-7.51E-05	1
0.263210462	15	4.67E-01	0.269145354	15

0.378765136	41	6.31E-02	1	41
0.327811326	23	2.39E-01	1	23
0.094779854	21	2.28E+00	0.28075809	21
0.338117931	22	2.22E-01	0.684098699	22
0.414951531	8	2.38E-01	2	8
-0.081655836	7	1.93E+00	0.048305736	7
0.166451481	2	5.84E-01	0	2
0.459505066	5	2.45E-01	-0.376610635	5
-1	4	3.47E+01	-0.53163626	4
-0.177535245	14	9.26E+00	-0.276912296	14
-0.010820168	4	1.06E+00	-0.01177602	4
-0.137944425	5	1.80E+00	-1.77E-05	5
0.112990105	5	7.78E-01	0.007627826	5
0	5	1.13E+00	-0.031641006	5
-0.308526947	6	3.95E+00	-1	6
-0.84012078	14	8.25E+02	-1	14
-0.004476519	4	1.04E+00	-0.366654997	4
0.015716074	3	8.92E-01	-0.026445227	3
-2	12	1.90E+04	-1	12
-0.531354754	4	4.94E+00	-0.569478506	4
-0.976785703	7	7.61E+01	-1	7
0.016039998	1	7.40E-01	0.026980455	1
-0.094715819	1	9.04E-01	0.61904143	1
-0.926603283	2	6.41E+00	-0.271665149	2
-0.210391298	5	2.29E+00	-0.833035572	5
-0.300023062	3	2.01E+00	-0.941041307	3
-0.450002918	6	6.68E+00	0.199734873	6
-0.032085142	4	1.13E+00	-0.309397155	4
-0.01881751	3	9.75E-01	-0.023042294	3
-0.17491467	3	1.46E+00	-0.280986614	3
0.195333053	4	5.76E-01	-0.625223646	4
0.060489259	4	8.59E-01	0.178252348	4
0.07370247	4	8.26E-01	-0.263363182	4
0.008340427	4	1.00E+00	-0.01435551	4
-0.933849174	10	2.51E+02	-1	10
-0.475610391	8	1.29E+01	-0.004208683	8
0.217323014	2	5.22E-01	0	2
-0.151057921	5	1.88E+00	0.0231318	5
-0.736428084	12	1.91E+02	-0.820208647	12
0	4	1.03E+00	0	4
0.679183926	7	8.53E-02	-0.737167438	7
-0.277477225	4	2.33E+00	0.011689695	4
-0.409971508	4	3.45E+00	0.342732522	4
-0.403514256	3	2.63E+00	-0.633740439	3
-0.467781254	4	4.09E+00	-0.030812002	4
-0.184293115	4	1.77E+00	-0.21982776	4
-0.02618148	1	7.98E-01	-0.029209868	1

0.113920408	5	7.75E-01	1	5
0.108958619	8	9.38E-01	0.081820813	8
2	6	5.68E-04	2	6
-0.102570141	4	1.39E+00	0.323918551	4
1	4	1.74E-02	0.984123171	4
0.314414098	5	3.97E-01	-0.415214434	5
-0.166608013	6	2.33E+00	0.514104466	6
0.160628317	11	8.35E-01	0.998440168	11
0.357027658	8	3.08E-01	-0.019621344	8
0.623066358	5	1.42E-01	0.485523227	5
0.161150733	3	6.14E-01	0.312769576	3
1	4	2.10E-02	2	4
2	3	9.21E-03	2	3
3	6	2.73E-05	4	6
1	10	3.94E-03	1	10
-0.702965987	8	3.58E+01	-0.55666301	8
-0.395649175	8	9.02E+00	-0.556827248	8
-0.928203479	4	1.60E+01	0.848275	4
-0.507270375	9	1.99E+01	-0.455469605	9
-0.228913262	10	6.21E+00	-0.216978081	10
1	43	3.53E-09	2	43
0.726040218	4	1.20E-01	0.607211504	4
2	10	1.28E-04	2	10
0.792605876	4	9.86E-02	1	4
0.160316518	5	6.64E-01	1	5
0.434119548	53	1.11E-02	0.863557121	53
-0.830255046	6	2.75E+01	0.48511593	6
-0.427208305	7	7.99E+00	-1	7
0.185872198	4	5.93E-01	2	4
-0.019898189	2	8.79E-01	0.022354727	2
0.617756043	16	3.22E-02	1	16
-0.161888905	13	7.08E+00	0.36194774	13
2	7	9.67E-05	4	7
1	7	9.74E-03	2	7
-0.16090384	13	7.04E+00	1	13
-0.486171578	3	3.25E+00	-0.331063227	3
-0.184553063	4	1.77E+00	0.542541326	4
0.358087022	5	3.43E-01	0.943842827	5
-1	8	5.75E+02	0.771179372	8
-0.229889311	4	2.03E+00	0.111895267	4
0.506532904	4	2.30E-01	0.11691639	4
-0.383528762	7	6.68E+00	-0.027743014	7
1	9	2.27E-03	2	9
2	4	6.48E-03	2	4
0.543447687	13	7.79E-02	0.803504575	13
0.254889663	6	4.85E-01	-0.549651906	6
-0.553995629	5	7.21E+00	-1	5

-0.734275564	4	9.00E+00	0.616495207	4
0.072936054	9	1.18E+00	-0.000103883	9
-0.56020295	8	1.89E+01	-0.17374727	8
-0.159153276	11	5.05E+00	-0.150059286	11
0.073715524	7	1.02E+00	-0.049746548	7
-0.103928551	2	1.06E+00	-0.157352071	2
-0.330171669	7	5.36E+00	-0.863101174	7
-0.002068054	1	7.64E-01	-0.782233711	1
0.498516099	5	2.15E-01	-0.699832335	5
-0.502809781	3	3.39E+00	-0.980395604	3
-0.217722459	13	1.01E+01	-0.16887221	13
0.910718252	19	1.68E-03	1	19
0.98285216	17	1.56E-03	2	17
0.02167356	8	1.39E+00	1	8
0.123980165	4	7.12E-01	0.705972637	4
0.043408186	7	1.16E+00	0.958974607	7
-0.248513495	5	2.60E+00	-0.138144954	5
-0.190374052	5	2.14E+00	0.616647119	5
-0.078796656	11	3.21E+00	-0.590829436	11
1	24	1.58E-06	3	24
0.596180937	6	1.36E-01	0.987356362	6
0.458542698	8	1.96E-01	2	8
0.590655328	56	2.55E-04	0.969435898	56
1	5	8.40E-03	1	5
2	4	1.01E-02	2	4
0.6962613	4	1.31E-01	0.216675298	4
1	19	1.99E-04	2	19
0.649407229	2	2.03E-01	-0.102826676	2
-0.140140446	4	1.55E+00	-0.57869595	4
-0.55090658	5	7.13E+00	-0.037999696	5
-0.483354041	7	1.01E+01	-1	7
0.397751608	12	2.08E-01	0.189481315	12
-0.126350447	12	4.87E+00	0.876920958	12
0.104437684	2	6.69E-01	0.335604986	2
-0.91626874	11	3.59E+02	-0.709020004	11
-0.026096452	3	9.94E-01	0	3
0	3	9.29E-01	0	3
-0.287233244	11	1.04E+01	-0.084332514	11
-0.002549265	3	9.35E-01	0	3
0	2	8.41E-01	0	2
-0.792567702	9	7.99E+01	-0.404481577	9
-0.458261161	5	5.24E+00	0	5
-0.000140368	4	1.03E+00	0.074523539	4
-0.690762023	17	8.92E+02	-0.747926333	17
-1	5	4.54E+01	-1	5
-1	7	2.14E+02	-0.785324977	7
-0.589601397	8	2.15E+01	-0.122901889	8

-0.00465215	3	9.40E-01	-0.096315873	3
-0.015627776	5	1.19E+00	-0.050967765	5
-0.309117492	5	3.18E+00	-0.242416806	5
-0.791021142	7	3.55E+01	-0.458350673	7
-0.320971622	13	1.96E+01	-0.016946818	13
-0.398622695	3	2.59E+00	0.142013874	3
1	50	1.27E-11	2	50
-0.00766222	8	1.58E+00	-0.682572088	8
-0.936772409	13	1.01E+03	-1	13
-0.412220527	12	2.72E+01	-0.224145672	12
0.101297604	14	1.40E+00	1	14
0.079829419	6	9.31E-01	0.862404595	6
0.271065244	4	4.61E-01	0.127316548	4
0.378063573	13	2.24E-01	0.995620805	13
-0.205214649	7	3.21E+00	-0.220004829	7
0.634086169	13	4.36E-02	1	13
0.186282508	5	6.09E-01	-0.045809364	5
0.894723235	11	1.34E-02	0.224272916	11
2	14	1.01E-05	2	14
-0.890252906	3	9.19E+00	-0.811000634	3
0.187034899	18	8.76E-01	0.913597844	18
-0.553699717	5	7.20E+00	-0.417289821	5
-0.916786468	7	5.95E+01	-0.587475936	7
0.426383674	2	3.30E-01	0	2
0.044138533	2	7.64E-01	0	2
-0.110838782	8	2.51E+00	-0.267872282	8
-0.452445199	17	1.35E+02	0.965834188	17
1	13	3.26E-03	1	13
-0.47374431	3	3.15E+00	-1	3
-0.117390901	11	3.99E+00	0.236305977	11
0.725552864	2	1.71E-01	0.946998953	2
0.766454645	15	1.27E-02	1	15
0.779835212	7	5.65E-02	1	7
0.006013414	9	1.64E+00	0.03262667	9
-1	7	8.83E+01	-0.615221828	7
0.739756639	5	9.60E-02	0.907471106	5
2	3	4.06E-03	2	3
0.962038748	37	8.63E-06	0.98306078	37
-0.332642488	6	4.32E+00	0.491822053	6
-0.117499136	6	1.94E+00	-0.362712043	6
0.469813185	12	1.35E-01	0.488273524	12
0.915393555	9	1.96E-02	1	9
-0.403209458	10	1.55E+01	0.100712609	10
0.449428553	6	2.35E-01	0.20024283	6
-0.608986877	2	3.20E+00	2	2
0.205121475	5	5.72E-01	0.080577986	5
2	8	1.61E-04	3	8

-0.254435111	9	5.83E+00	-0.292108739	9
2	10	2.16E-04	3	10
-0.744911349	4	9.28E+00	-0.696384969	4
-0.838405485	15	1.24E+03	0.337783638	15
0.475118621	7	1.97E-01	0.764804831	7
-0.515127548	3	3.50E+00	0.493923898	3
0.605427741	6	1.32E-01	1	6
-0.179636586	5	2.07E+00	-0.068855905	5
-0.022902478	2	8.84E-01	-0.006646905	2
-0.09960125	4	1.38E+00	0.022016501	4
0.137006424	3	6.53E-01	0.261183054	3
-0.732754291	4	8.96E+00	0.091063002	4
0.175530155	3	5.91E-01	-0.145674921	3
-0.18046508	6	2.45E+00	-0.052241726	6
-1	2	1.68E+01	-2	2
-0.048589005	8	1.90E+00	-0.050623231	8
0.437819954	10	1.87E-01	-0.137194403	10
0.600170634	6	1.34E-01	1	6
-0.604548828	17	4.51E+02	-0.036056048	17
-0.490036488	4	4.37E+00	0.274115584	4
0.194730158	12	7.06E-01	-0.168283114	12
1	5	2.10E-02	0.570917189	5
0.030096679	4	9.39E-01	-0.010504775	4
0.860151756	8	3.23E-02	1	8
-0.248192679	7	3.83E+00	0.048535138	7
-0.42406521	7	7.88E+00	-0.530439679	7
-0.710840124	12	1.64E+02	-0.378041385	12
0.509812204	2	2.75E-01	0.20203093	2
0.968854471	7	2.60E-02	0.633331814	7
-0.619428631	18	7.10E+02	-0.349379938	18
-0.666046701	12	1.25E+02	-0.830880206	12
-0.40030761	9	1.19E+01	0.453212451	9
-0.096146417	9	2.70E+00	0.395368683	9
0.434703912	6	2.49E-01	0.153311452	6
-0.264918665	13	1.37E+01	-1	13
0.920988546	10	1.48E-02	0.236590013	10
0.880671966	77	2.35E-09	1	77
-0.759749603	5	1.43E+01	0.340644056	5
0.667963909	11	4.80E-02	0.643120349	11
0.94048723	13	6.15E-03	2	13
-0.42026518	5	4.61E+00	0.206772923	5
0.285982869	19	3.81E-01	1	19
0.472415248	6	2.16E-01	2	6
0.917799433	4	6.81E-02	0.685638792	4
0.890706463	4	7.38E-02	0.577099572	4
0.642334418	4	1.54E-01	0.333596398	4
2	31	4.19E-13	2	31

0.299022995	12	3.77E-01	1	12
0.134613434	3	6.57E-01	0.297121908	3
1	23	7.21E-05	2	23
0.308285405	4	4.13E-01	0.128858833	4
-0.26825273	9	6.23E+00	-0.249103253	9
-0.059354631	8	2.00E+00	-0.028313458	8
0.051215	10	1.43E+00	0.163696508	10
-0.926619951	2	6.41E+00	-1	2
-0.207776194	1	1.11E+00	-0.161981472	1
-0.257607754	5	2.68E+00	-0.675670354	5
-0.037954741	1	8.16E-01	-1	1
0.015588871	2	8.13E-01	-0.722476291	2
-0.417844413	12	2.81E+01	-0.558512525	12
0.640102837	25	7.37E-03	0.881646871	25
1	17	6.43E-04	2	17
-1	8	5.85E+02	-1	8
-0.032140391	8	1.77E+00	-0.325684278	8
0.097446348	12	1.27E+00	0.44533672	12
1	3	6.63E-02	0.863524547	3
0.921128858	31	7.42E-05	1	31
-0.174091479	53	5.89E+03	0.235196036	53
-0.164119234	22	3.10E+01	0.118393267	22
-0.201754508	7	3.17E+00	0.363239239	7
1	6	1.06E-02	2	6
0.83752157	7	4.46E-02	0.472806157	7
-0.438634953	6	6.41E+00	-0.746095715	6
0	1	7.61E-01	0.058704763	1
-0.639945124	4	6.81E+00	-1	4
-0.149018333	7	2.55E+00	2	7
0.916105452	10	1.52E-02	3	10
2	35	1.07E-11	2	35
1	1	5.66E-02	0.701065835	1
0.299015522	7	4.06E-01	-0.788324702	7
0.246309716	6	5.01E-01	-0.231768427	6
0.018619939	1	7.36E-01	0.032129072	1
0.30618051	5	4.08E-01	-0.076414436	5
0.406362471	6	2.76E-01	0.869290032	6
1	14	5.89E-04	2	14
-0.006170738	14	2.90E+00	-0.538637503	14
-0.246407093	5	2.58E+00	0.081841035	5
-0.026672794	1	7.99E-01	-0.043051524	1
0.379300011	6	3.06E-01	-0.310733323	6
0.724638129	3	1.44E-01	0.925990421	3
0.517917408	12	1.01E-01	0.926688778	12
1	20	6.69E-06	2	20
0.555956587	3	2.22E-01	0.013256245	3
0.227847936	3	5.17E-01	-0.381981594	3

0.684852102	9	6.03E-02	0.467155685	9
0.058961346	12	1.60E+00	0.05346803	12
-0.754876462	3	6.49E+00	-2	3
-0.980026644	9	1.99E+02	-1	9
0	2	8.41E-01	0	2
-0.000372825	6	1.25E+00	0	6
0.588971593	14	5.14E-02	-0.101114287	14
0.011280747	1	7.46E-01	0.018996355	1
0.005870155	3	9.15E-01	0.009885121	3
-0.107094644	10	3.27E+00	-0.401632072	10
-0.060804394	9	2.27E+00	-0.076197965	9
-0.006697404	4	1.05E+00	-0.098436708	4
-0.626132583	7	1.81E+01	-0.481247605	7
-0.041583445	7	1.64E+00	-0.03743763	7
-0.515256653	10	2.79E+01	-0.614800061	10
-0.207874286	3	1.59E+00	0	3
-0.826302605	3	7.80E+00	-0.386624007	3
-0.598441817	5	8.36E+00	0.020075679	5
-0.271700668	7	4.22E+00	0.152699117	7
-0.667540708	8	3.05E+01	-0.636071757	8
-0.57720949	7	1.48E+01	-0.82665744	7
-0.088989979	9	2.60E+00	1	9
-0.245357173	6	3.12E+00	-0.179171123	6
0.350102974	8	3.18E-01	1	8
0.13080528	7	8.09E-01	1	7
2	25	6.48E-10	2	25
0.629664273	20	1.67E-02	0.790252664	20
0.469444171	56	4.05E-03	0.852456384	56
0	6	1.25E+00	0	6
0	3	9.29E-01	0	3
0	12	2.28E+00	0	12
0	2	8.41E-01	0	2
0	3	9.29E-01	0	3
0	2	8.41E-01	0	2
0	1	7.61E-01	0	1
0	4	1.03E+00	0	4
0	1	7.61E-01	0	1
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
0.058108062	1	6.85E-01	0.136051665	1
0.066288262	26	4.33E+00	0.162977314	26
0	6	1.25E+00	0	6
0	3	9.29E-01	0	3
0	12	2.28E+00	0	12
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
0	1	7.61E-01	0	1

0	4	1.03E+00	0	4
0	1	7.61E-01	0	1
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
0.030975281	1	7.20E-01	0	1
0.180484727	5	6.21E-01	1	5
-0.286462832	1	1.28E+00	2	1
-0.287950082	8	5.56E+00	0.451486791	8
-0.410286712	3	2.67E+00	-0.43425409	3
0.135876926	7	7.93E-01	0.252014489	7
1	13	1.03E-03	0.964042326	13
1	5	3.16E-02	2	5
0.936557678	22	6.17E-04	2	22
-0.789856201	6	2.37E+01	0.033410402	6
0.826528324	10	2.44E-02	1	10
0.543156146	15	6.29E-02	0.733214872	15
0.584560286	29	8.27E-03	0.896157606	29
0.00737152	20	4.73E+00	0.714517588	20
1	9	4.58E-03	1	9
-0.523455979	15	1.30E+02	0.029258381	15
0.089193302	4	7.89E-01	0.349228316	4
0.130657502	5	7.33E-01	0.650143251	5
0.110391557	8	9.32E-01	2	8
-0.915355776	6	3.77E+01	-1	6
-0.186189912	3	1.50E+00	-0.140432348	3
-0.182846575	3	1.49E+00	-0.055668758	3
0.221201605	7	5.59E-01	-0.329004461	7
0.021429607	2	8.03E-01	0	2
0.402204419	9	2.39E-01	0.247106252	9
-0.444985365	9	1.47E+01	-2	9
-0.183569357	5	2.09E+00	-0.312848653	5
0.018006489	2	8.09E-01	-0.153073122	2
-0.419202221	5	4.60E+00	-0.916275778	5
-0.049963223	3	1.06E+00	0.517061618	3
-1	4	5.69E+01	-0.798819751	4
-0.016076684	7	1.48E+00	-0.746982871	7
-0.337947657	8	6.96E+00	-0.652895007	8
-0.249328108	4	2.15E+00	-0.062255175	4
-0.301043042	7	4.76E+00	0.520683512	7
-0.149978679	11	4.80E+00	0.444586611	11
0.146413423	21	1.40E+00	-0.089444405	21
0.221289142	8	5.67E-01	0.216568068	8
0.807436978	12	1.77E-02	0.43397448	12
0.783086507	1	1.85E-01	0.698622093	1
0.120337888	5	7.59E-01	-0.891600898	5
0.43605652	2	3.23E-01	-0.366848106	2
-0.423975406	2	2.13E+00	1	2

-0.189043842	4	1.80E+00	2	4
0.060712078	3	7.95E-01	2	3
-0.19626904	5	2.18E+00	-0.103760603	5
-0.242278724	2	1.43E+00	-0.082061734	2
-0.264542297	7	4.10E+00	0.431771081	7
-1	5	7.54E+01	0.304048935	5
-1	6	2.36E+02	-0.148865696	6
-0.971063186	13	1.25E+03	-1	13
2	4	4.52E-03	3	4
0.039111258	4	9.15E-01	0.614568899	4
-0.060697328	6	1.57E+00	0.943577394	6
-0.321435135	6	4.14E+00	0.37819989	6
0.583903167	4	1.83E-01	-0.922260155	4
-0.299846773	4	2.49E+00	-0.003656263	4
-0.174924716	6	2.40E+00	-0.379180044	6
-1	7	1.68E+02	-0.513863344	7
-0.048777515	3	1.05E+00	-0.116776879	3
0.256241387	4	4.81E-01	0.776740975	4
-0.408003083	6	5.72E+00	-0.698356082	6
-0.122899321	23	2.39E+01	-0.23080165	23
-0.301594577	2	1.63E+00	-0.087488682	2
-0.074936504	1	8.72E-01	1	1
-0.492218666	5	5.87E+00	-0.25849041	5
-0.280077843	2	1.55E+00	-0.039370167	2
-0.505872682	3	3.42E+00	-0.534113918	3
0.013049384	6	1.19E+00	0.485259062	6
0.279832035	2	4.56E-01	1	2
0.291457855	5	4.29E-01	0.046311127	5
0.220393168	3	5.27E-01	0.050359866	3
-0.714952712	7	2.60E+01	-1	7
0.294637981	11	3.92E-01	0.685081078	11
-0.878262311	10	1.87E+02	-0.392603282	10
0.377100626	8	2.82E-01	-0.488063205	8
-0.06505726	2	9.70E-01	0	2
3	7	3.85E-05	2	7
0.009443866	6	1.21E+00	0.099650875	6
2	6	2.23E-03	3	6
0.93427838	10	1.38E-02	0.213540952	10
-0.070927838	14	4.50E+00	-0.393724246	14
-2	4	3.01E+02	-2	4
1	15	4.19E-04	1	15
-0.512037734	16	1.61E+02	0.034298183	16
1	15	2.82E-04	2	15
-0.022355419	9	1.88E+00	0.687325142	9
-0.867783635	6	3.16E+01	-0.648139984	6
2	13	5.78E-05	3	13
0.512471672	9	1.40E-01	1	9

0.740710482	9	4.59E-02	0.575112267	9
2	19	2.39E-07	2	19
-0.447807193	7	8.69E+00	-0.182348312	7
2	4	2.99E-03	0.323566035	4
-0.438978493	12	3.19E+01	-0.397199316	12
0.476425233	27	3.77E-02	0.453299159	27
0.397997938	7	2.70E-01	0.304379055	7
-0.425451829	7	7.93E+00	0.354763267	7
-0.803031101	16	1.45E+03	-0.045606669	16
0.48174547	3	2.69E-01	0.719679083	3
0.239932135	2	4.97E-01	-0.16583517	2
0.69758871	10	4.80E-02	0.532838656	10
2	7	1.70E-03	1	7
0.176335455	4	6.10E-01	0.752222842	4
-0.202063156	5	2.23E+00	-0.505220532	5
1	7	2.28E-02	2	7
0.553505437	17	4.67E-02	1	17
-0.127442067	6	2.01E+00	-2	6
-0.293681472	14	2.03E+01	0.232912591	14
0.878201545	6	4.78E-02	1	6
-0.452718458	7	8.87E+00	-1	7
-0.442915798	16	9.57E+01	-0.076729509	16
1	15	3.47E-04	0.387659549	15
1	8	6.43E-03	-0.220603669	8
0.176808232	5	6.29E-01	-0.393544412	5
0.402181245	8	2.52E-01	0.522657514	8
4	7	7.34E-08	5	7
0.458482313	12	1.45E-01	1	12
0.303009778	12	3.68E-01	0.212016956	12
-0.983960425	3	1.17E+01	-1	3
-0.733484268	8	4.10E+01	0.805542817	8
0.764573233	4	1.07E-01	0.827347973	4
1	5	3.22E-02	2	5
1	8	8.86E-03	1	8
-0.384952799	4	3.20E+00	-0.00874178	4
-0.081545644	4	1.31E+00	-0.595617762	4
-0.168539397	6	2.35E+00	-0.017030623	6
-0.05665432	2	9.52E-01	-0.041156868	2
-0.916642456	8	9.32E+01	-0.750013125	8
-0.351325328	3	2.30E+00	-0.747087207	3
-0.204786811	3	1.57E+00	-0.301579913	3
0.976346007	51	1.50E-07	0.901113482	51
0.383232459	3	3.47E-01	0.317588523	3
0.329384185	36	1.67E-01	0.391989803	36
0.147512441	6	7.24E-01	0.161870595	6
0.928924968	19	1.43E-03	1	19
-0.047875314	1	8.30E-01	-0.040338981	1

-0.164824233	2	1.21E+00	-0.242488695	2
0.5543083	68	1.52E-04	1	68
-0.248335184	7	3.83E+00	0.685484635	7
1	7	4.14E-03	1	7
-1	11	2.37E+03	-1	11
-1	4	2.86E+01	-1	4
0.727524245	7	7.00E-02	0.472151546	7
0.044876496	1	7.02E-01	0.099473945	1
0.060907595	2	7.36E-01	0.231802875	2
-0.319844047	14	2.43E+01	0.180601834	14
2	14	2.13E-07	2	14
0.68752788	6	9.71E-02	0.052868656	6
1	12	7.42E-04	2	12
0.06920051	10	1.30E+00	-0.035510666	10
-0.498164303	8	1.43E+01	0.693123898	8
-1	6	5.78E+01	-0.7057855	6
0.057273708	5	9.37E-01	-0.533345954	5
-0.869405015	8	7.54E+01	-0.897637908	8
-1	14	3.96E+04	-1	14
-0.555157386	7	1.35E+01	-0.841535725	7
0.006019534	5	1.11E+00	-0.987160652	5
-0.123874794	9	3.09E+00	0.474482485	9
0.916681428	8	2.51E-02	0.676934159	8
-0.029615587	11	2.44E+00	0.343210501	11
2	1	1.43E-02	2	1
3	6	5.99E-05	3	6
2	4	1.38E-03	2	4
2	2	1.01E-02	2	2
0.308836407	6	3.97E-01	0.833201035	6
1	25	6.78E-07	2	25
1	22	2.54E-05	2	22
0.031858051	11	1.72E+00	0.362528102	11
0.317043723	6	3.85E-01	1	6
-0.520355163	8	1.58E+01	-0.254573111	8
0.680755997	15	2.35E-02	0.89098047	15
0.02837967	15	2.51E+00	0.166228899	15
-0.991316109	3	1.19E+01	0.855401768	3
0.666749916	19	1.40E-02	0.878890266	19
-0.177952014	7	2.87E+00	0.53803965	7
-0.232011573	3	1.69E+00	-0.336036943	3
1	5	9.64E-03	0.436821577	5
2	3	9.62E-03	1	3
-0.739827258	2	4.26E+00	-0.673933205	2
-0.088496806	7	1.99E+00	-0.341212901	7
-0.457544634	2	2.29E+00	-0.666680836	2
0	1	7.61E-01	0	1
-0.005348536	2	8.51E-01	-6.32E-06	2

-0.041110809	2	9.21E-01	-4.86E-05	2
0.627855419	42	7.77E-04	0.780567239	42
-0.911187513	16	3.27E+03	-0.608255275	16
-0.096831952	3	1.19E+00	-0.016040089	3
-0.643823578	10	5.48E+01	-0.481694728	10
-1	8	4.75E+02	-0.917110456	8
0.702292979	13	2.82E-02	2	13
-0.520983859	14	9.49E+01	0.573960285	14
-0.921690769	4	1.57E+01	0.027730719	4
-0.057607215	1	8.45E-01	0.260537233	1
0.087635746	24	2.97E+00	0.814173457	24
0.089008437	4	7.89E-01	-0.018759255	4
0.858894026	8	3.25E-02	0.346744616	8
-0.092022374	6	1.76E+00	-0.885667877	6
-0.604725608	12	8.64E+01	-0.70882975	12
0.948766294	15	3.45E-03	2	15
1	17	4.76E-05	2	17
0.506081398	8	1.58E-01	0.316713565	8
-1	4	3.40E+01	-1	4
-1	6	1.70E+02	-0.488460021	6
0.450848604	11	1.63E-01	0.228226863	11
1	21	9.35E-05	2	21
3	19	8.81E-11	3	19
0.452291261	3	2.90E-01	0.547690615	3
-0.114089353	9	2.94E+00	0.813378654	9
0.426088144	4	2.91E-01	-0.395456504	4
-0.249301289	10	6.91E+00	-0.36609973	10
-0.079894921	12	3.68E+00	0.368969165	12
-1	2	1.26E+01	-1	2
-2	4	2.23E+02	-0.987585894	4
-2	9	3.90E+03	-1	9
-0.123884795	4	1.48E+00	-0.187232801	4
0.120987838	3	6.81E-01	0.532489665	3
1	5	9.59E-03	2	5
1	15	5.32E-04	1	15
0.078506754	6	9.36E-01	0.257889484	6
0.522928667	6	1.79E-01	1	6
0.203065508	4	5.63E-01	1	4
0.421766176	11	1.92E-01	0.179065352	11
0.898932603	26	3.37E-04	1	26
0.567034903	16	4.72E-02	1	16
2	17	2.22E-07	3	17
-0.18297839	13	8.11E+00	-0.033444383	13
0.878087163	5	6.05E-02	1	5
-0.62218523	2	3.29E+00	0.396570088	2
-0.044097831	3	1.04E+00	0	3
-0.046075286	1	8.28E-01	-0.076210399	1

0.062236281	4	8.54E-01	-0.636211719	4
-0.15479951	2	1.18E+00	0.7855386	2
0.118557815	4	7.23E-01	-0.349852221	4
-0.828089317	6	2.73E+01	-0.155682188	6
-0.448372467	6	6.64E+00	-0.585840959	6
0.101363502	7	9.13E-01	1	7
-0.386096809	4	3.21E+00	-0.62888668	4
0.144779363	5	6.99E-01	-0.070500947	5
-1	5	3.78E+01	-0.687731718	5
-0.008975724	3	9.51E-01	0.014933981	3
-0.169846461	5	2.00E+00	0.78934937	5
0.572506262	67	1.04E-04	1	67
0.116047889	7	8.60E-01	-0.069101004	7
-0.564557332	5	7.47E+00	0.884490474	5
0.266071366	5	4.67E-01	-0.026827548	5
-0.664866292	5	1.04E+01	-1	5
-0.290528709	12	1.31E+01	0.089769972	12
0.864407887	18	3.16E-03	1	18
0.141876968	16	1.16E+00	0.269528921	16
-0.598691183	1	2.25E+00	1	1
0.718695575	21	6.26E-03	1	21
2	1	4.13E-02	2	1
-0.430660069	3	2.82E+00	0.888181828	3
-0.347868267	6	4.57E+00	0.758114841	6
-0.040586696	2	9.19E-01	0	2
-1	9	1.38E+03	-0.974505845	9
2	7	2.44E-03	1	7
-0.593889959	14	1.56E+02	-0.381142944	14
0.00414652	5	1.12E+00	-2	5
-0.416782184	7	7.65E+00	-0.862347396	7
0	1	7.61E-01	0.058704763	1
0	2	8.41E-01	-0.162831517	2
-0.076026695	6	1.66E+00	0.008083288	6
1	6	6.80E-03	0.413347787	6
-0.005310239	19	4.79E+00	0.329558792	19
1	6	1.92E-02	1	6
2	1	1.53E-02	0.4521218	1
2	10	3.26E-04	1	10
2	46	4.52E-19	3	46
0.711043283	10	4.47E-02	2	10
-0.261646443	6	3.32E+00	-1	6
0.293231924	6	4.21E-01	0.849327092	6
0.422049588	8	2.30E-01	0.996350827	8
0.814737533	12	1.70E-02	1	12
0.352181255	15	2.47E-01	0.467873057	15
0.037273845	4	9.20E-01	0.615477182	4
-0.286299168	5	2.95E+00	-0.153609116	5

-0.057243772	2	9.54E-01	-0.085860474	2
1	13	1.96E-03	2	13
0.352046663	35	1.23E-01	0.600121696	35
0.18001886	8	6.82E-01	0.261094009	8
-0.154983995	2	1.18E+00	-0.244749757	2
1	43	1.26E-10	2	43
2	1	3.09E-02	2	1
0.044594875	9	1.36E+00	-0.176441745	9
-0.214565916	3	1.61E+00	-0.173446679	3
0.155665803	3	6.22E-01	0.916170113	3
0.531909631	4	2.13E-01	0.498234783	4
0.036289721	4	9.22E-01	-0.685642002	4
-1	11	4.48E+03	-0.725272082	11
-0.958846982	8	1.13E+02	-1	8
-0.912355204	1	3.97E+00	-0.294951105	1
-0.160985854	4	1.65E+00	-0.189205958	4
-0.199262793	8	3.74E+00	-0.78333079	8
-0.536223362	9	2.30E+01	-0.322857374	9
-0.979272915	7	7.69E+01	-0.905478709	7
-0.515382208	3	3.50E+00	-0.516518843	3
-0.400334289	4	3.35E+00	-0.703751472	4
0.358283151	4	3.56E-01	-0.073728694	4
0.50412849	7	1.75E-01	0.54523581	7
-1	10	5.90E+02	-2	10
-0.22231531	11	7.21E+00	0.88381063	11
-0.236965429	3	1.71E+00	0	3
-0.183777981	6	2.48E+00	-0.218653303	6
0.192347797	6	6.13E-01	-0.252762401	6
-0.27126676	16	2.62E+01	-0.493648255	16
-0.472597387	4	4.15E+00	-0.641904328	4
-0.199208127	4	1.85E+00	-0.853817887	4
-0.064034074	4	1.24E+00	-0.054287675	4
-0.282745363	3	1.92E+00	-0.25077273	3
-0.046262868	3	1.05E+00	-0.002816999	3
0.56283886	13	6.88E-02	0.900508799	13
0.575407971	17	3.93E-02	0.701911103	17
-0.401195031	1	1.57E+00	-1	1
-0.068757107	20	9.43E+00	0.272289686	20
1	14	2.73E-03	2	14
-0.242058589	6	3.08E+00	-0.550189159	6
-0.483758619	8	1.34E+01	0.139923672	8
0.019030728	5	1.06E+00	0.011522937	5
0.124289858	2	6.41E-01	-0.120275762	2
1	6	2.59E-02	0.015856336	6
0.752493363	4	1.11E-01	0.65087567	4
-0.341695831	6	4.47E+00	-0.19286194	6
3	26	8.53E-13	4	26

0.019054925	10	1.69E+00	-0.487175196	10
-0.016569017	3	9.70E-01	-0.470601539	3
-8.44E-05	4	1.03E+00	-0.013831992	4
-0.150336517	14	7.70E+00	-0.02630786	14
-0.426389055	8	1.03E+01	0.200207679	8
2	2	2.06E-02	1	2
2	6	1.06E-03	3	6
0.575950312	8	1.16E-01	0.69438498	8
0.232116765	1	5.00E-01	0.062807952	1
0.232116765	1	5.00E-01	0.062807952	1
0.802671514	6	6.32E-02	0.105740451	6
0.254718387	19	5.00E-01	0.965890432	19
0.716775897	6	8.71E-02	0.858451136	6
-0.633264186	16	4.02E+02	-0.920763424	16
-0.021959299	3	9.83E-01	-0.01742443	3
0.249974662	5	4.92E-01	-0.554856744	5
-0.71333564	2	4.02E+00	-1	2
0.906199914	3	9.02E-02	0.184998971	3
0.730991554	8	5.77E-02	-0.724553248	8
0.516101483	7	1.67E-01	-0.202363137	7
0.45280783	3	2.90E-01	-0.096661075	3
0.315179337	4	4.04E-01	0.997887034	4
-0.069108676	5	1.43E+00	1	5
0.389778191	3	3.41E-01	0.694081024	3
-0.0151803	4	1.07E+00	0.412761313	4
-0.083502457	3	1.15E+00	-0.003343972	3
2	13	1.60E-05	2	13
-0.540916663	5	6.90E+00	-0.781672705	5
0.743487803	1	1.98E-01	-0.240014356	1
-0.001794791	6	1.26E+00	-0.750808914	6
-0.457544634	1	1.74E+00	0.698622093	1
2	13	1.38E-04	2	13
1	14	1.47E-04	2	14
-0.195298805	6	2.59E+00	0.058417466	6
-0.830088138	4	1.19E+01	-0.617315497	4
0.922993698	20	1.17E-03	1	20
0.875752116	1	1.56E-01	0.686146803	1
0.811090905	6	6.13E-02	1	6
-0.450128876	6	6.69E+00	0.034356496	6
-0.981835343	7	7.77E+01	-0.328451035	7
-0.061106477	6	1.57E+00	0.507968443	6
0.209296663	4	5.53E-01	0.63656602	4
1	7	6.26E-03	0.304155062	7
-0.304806925	4	2.53E+00	0.259304073	4
-0.017136137	2	8.73E-01	0.425486562	2
0.720600913	27	2.14E-03	0.433074727	27
-1	29	2.05E+08	-1	29

-0.196779259	4	1.84E+00	-0.114850737	4
0.728778723	10	4.07E-02	0.439013953	10
0.78681954	10	3.00E-02	0.651858075	10
-0.879176474	3	8.93E+00	0.53586517	3
-0.062921569	3	1.09E+00	0.051476691	3
1	25	1.25E-04	1	25
0.197793064	8	6.30E-01	0.860778712	8
-1	7	1.04E+02	-0.989598046	7
-0.219904437	2	1.36E+00	0.142877491	2
0.526703498	11	1.06E-01	2	11
0.510894589	14	8.72E-02	0.353445191	14
3	14	1.90E-09	3	14
0.584883932	9	9.81E-02	-0.112926749	9
-0.869169929	6	3.18E+01	-0.951110594	6
-0.77229009	11	1.59E+02	-0.460795545	11
1	22	1.44E-04	2	22
-0.845888726	4	1.25E+01	-0.662393952	4
0.636582168	7	1.02E-01	0.63905411	7
0	1	7.61E-01	0	1
-0.169132239	1	1.03E+00	0.123415527	1
-0.213750884	2	1.34E+00	0.182353892	2
-0.004544734	6	1.27E+00	-0.146412201	6
0.142280948	21	1.45E+00	0.831311786	21
-0.387933741	10	1.43E+01	-0.647207558	10
-0.11319799	13	5.19E+00	0.136195007	13
0.241845943	16	5.48E-01	0.192399986	16
-0.837327208	5	1.86E+01	-0.135116919	5
-0.126867676	16	8.83E+00	0.426896054	16
-1	3	1.46E+01	0.007163294	3
-0.222247335	8	4.14E+00	-0.889872602	8
0	3	9.29E-01	0.61006778	3
-0.769493683	6	2.19E+01	-0.695793808	6
-0.568339886	13	9.53E+01	-0.065554218	13
-0.441522312	13	4.24E+01	-0.163569878	13
-0.254720054	3	1.79E+00	0.05395293	3
-0.777576115	9	7.43E+01	-0.331197827	9
0.245125424	19	5.44E-01	0.223645597	19
-0.292052276	10	8.64E+00	-0.166756903	10
-0.434187025	8	1.07E+01	-0.186631922	8
0.401091259	15	1.74E-01	0.446073318	15
-0.269019479	27	2.39E+02	0.039901199	27
-0.537327543	17	2.65E+02	0.290633319	17
-0.462877511	12	3.68E+01	-0.567187336	12
-0.107642685	6	1.87E+00	-0.181597044	6
2	41	6.95E-14	2	41
0.149383137	4	6.60E-01	0.178916794	4
0.026627794	1	7.26E-01	0.047402766	1

0.462358347	15	1.12E-01	0.244624845	15
-0.650752124	15	3.24E+02	0.360838292	15
0.239733976	6	5.14E-01	0.165441161	6
-0.776943885	12	2.43E+02	-0.865140289	12
-0.174834407	7	2.84E+00	-0.005343888	7
-0.822687688	5	1.77E+01	-0.636723208	5
-1	6	5.52E+01	-0.695911498	6
-1	4	6.24E+01	-2	4
-0.564823698	4	5.45E+00	-1	4
0.46960673	4	2.56E-01	-0.118333138	4
0.261126962	12	4.74E-01	0.679380739	12
0.486760368	20	6.11E-02	1	20
-0.702396878	7	2.47E+01	-0.298968713	7
-0.437144255	6	6.37E+00	0.025133935	6
-0.074202761	3	1.12E+00	0	3
0	6	1.25E+00	0	6
0.246015119	3	4.93E-01	-0.779923384	3
0.045266032	10	1.47E+00	-0.350026048	10
0.160187714	8	7.46E-01	-0.187988553	8
0.114754558	4	7.31E-01	0.164436252	4
-0.077784701	9	2.47E+00	0.024098847	9
-0.644739879	3	4.89E+00	1	3
0.087478491	8	1.03E+00	-0.120921911	8
0.227132591	7	5.45E-01	-0.991294661	7
0.115213773	10	1.02E+00	-1	10
0.422837349	43	2.63E-02	1	43
0.872383537	15	5.96E-03	2	15
0.084961468	8	1.04E+00	1	8
0.127001199	2	6.37E-01	0.222325186	2
-0.012446323	3	9.60E-01	-0.006514797	3
0.205889287	13	6.74E-01	-0.087261506	13
-0.158877578	6	2.26E+00	0.463123375	6
0.583817717	5	1.62E-01	0.095874519	5
-0.583969377	8	2.10E+01	-0.605864694	8
0.35269378	6	3.37E-01	-0.130899347	6
0.167044633	6	6.73E-01	0.12655896	6
0.117022857	10	1.01E+00	0.345619494	10
0.005361949	12	2.21E+00	1	12
0.790571895	10	2.94E-02	0.268479261	10
-0.688399821	6	1.62E+01	-0.793227544	6
0.136598996	28	2.14E+00	0.369757335	28
0.361984882	4	3.52E-01	-0.152855488	4
0.329603593	2	4.08E-01	-1	2
0.139948026	10	8.95E-01	0.012694091	10
-0.439568147	12	3.20E+01	-1	12
-0.344841558	7	5.70E+00	-0.485961813	7
0.245305692	7	5.06E-01	0.982778647	7

0.194469799	12	7.07E-01	-0.047401189	12
-0.066210205	17	6.33E+00	0.736781863	17
0.239325063	7	5.19E-01	0.450370107	7
1	18	4.76E-04	1	18
0.020588016	1	7.34E-01	0.101516673	1
-0.195094428	2	1.29E+00	0.146843335	2
1	14	2.16E-04	1	14
0.734685822	67	1.30E-06	1	67
-1	20	6.56E+04	0.118932689	20
-0.5733354	10	3.78E+01	-0.807278866	10
-0.905724116	11	3.38E+02	-0.845759263	11
-0.625390443	6	1.28E+01	0.649340724	6
-0.503503334	6	8.16E+00	-0.807939835	6
-0.679360664	3	5.34E+00	0.700684035	3
-0.57631593	5	7.77E+00	-1	5
0.777679479	6	6.94E-02	2	6
0.12589838	8	8.69E-01	1	8
0.192290064	11	6.98E-01	-0.490343774	11
0.87427268	13	9.39E-03	1	13
-0.069406849	4	1.26E+00	0.743395854	4
-0.078500834	13	4.16E+00	-0.134394824	13
-0.642934008	7	1.93E+01	-0.335351548	7
0.433680821	5	2.67E-01	0.135330814	5
1	5	1.87E-02	2	5
0.084506553	16	1.79E+00	0.206754262	16
-0.041196797	4	1.16E+00	-0.518261329	4
0.948573669	17	2.04E-03	2	17
-0.183604639	3	1.49E+00	-0.151884884	3
-0.095423988	4	1.36E+00	0.189487007	4
-0.492034187	4	4.40E+00	0.107865175	4
-0.518020129	2	2.62E+00	0.309927767	2
0.023418314	3	8.75E-01	-0.120918636	3
1	13	3.52E-04	0.944373051	13
1	9	2.45E-03	1	9
1	15	2.73E-04	2	15
-1	1	1.04E+01	-2	1
-0.649228332	6	1.40E+01	-0.505561936	6
-1	15	4.82E+03	-0.376900237	15
0.640270128	47	3.03E-04	0.760259028	47
0.450561937	17	1.06E-01	0.168841182	17
2	39	1.16E-11	2	39
0.397266497	9	2.44E-01	0.346153532	9
-0.083884701	7	1.95E+00	-0.308918846	7
0.167774041	3	6.03E-01	0.693918525	3
0.677120877	6	1.01E-01	2	6
1	14	1.21E-03	2	14
-0.134884471	10	3.79E+00	0.92417126	10

-0.344497615	5	3.58E+00	-0.516633188	5
0.419213661	4	2.97E-01	0.246378215	4
2	7	1.55E-03	2	7
3	3	1.13E-03	2	3
0.168766762	8	7.17E-01	0.317861491	8
-0.458618072	4	3.98E+00	0.279575771	4
-2	4	3.67E+02	0.270924884	4
1	12	4.56E-03	1	12
0.477976351	10	1.52E-01	0.702508954	10
1	3	3.24E-02	2	3
0.376472511	6	3.09E-01	-0.258108886	6
0.284781186	3	4.46E-01	-0.010842093	3
2	8	3.87E-05	4	8
3	4	2.33E-04	4	4
2	5	2.84E-03	3	5
-0.587806026	3	4.22E+00	0	3
-0.027551609	9	1.93E+00	0.654419942	9
-0.358579502	6	4.76E+00	1	6
0.838859181	5	6.89E-02	0.918308671	5
1	4	2.21E-02	1	4
0.698908716	3	1.54E-01	1	3
-0.365314868	10	1.27E+01	0.621336072	10
0.96848571	7	2.60E-02	1	7
0.660180373	3	1.70E-01	0.593528196	3
0.050690748	2	7.53E-01	-2.10E-05	2
0.893513763	4	7.32E-02	0.015832941	4
2	5	4.46E-03	1	5
1	10	6.82E-03	3	10
-0.648416172	22	3.62E+03	-0.143240231	22
2	8	6.73E-05	2	8
0.747459511	6	7.77E-02	0.171988269	6
0.098711638	50	1.32E+01	0.931643443	50
-0.082684386	11	3.28E+00	-0.231502165	11
0.141762701	2	6.17E-01	0.533447912	2
-0.019044024	3	9.76E-01	0.084281565	3
-0.529311173	4	4.91E+00	-0.648105346	4
0.694433314	6	9.46E-02	3	6
0.449451096	8	2.04E-01	0.676647096	8
0.052268946	1	6.93E-01	0.128878144	1
0.530133087	12	9.40E-02	1	12
-0.080372433	11	3.24E+00	1	11
0.133490884	1	5.98E-01	-0.038309909	1
-0.001444456	4	1.03E+00	-0.236331317	4
-0.735307802	2	4.22E+00	-0.767058752	2
-2	5	1.85E+02	-1	5
0.245576235	4	4.97E-01	0.067975677	4
1	6	5.90E-03	0.455225138	6

-0.326168001	5	3.37E+00	0.387792169	5
-0.613169055	2	3.23E+00	-0.042361399	2
-0.131944097	2	1.12E+00	-0.376703461	2
-0.021694726	1	7.92E-01	-0.035029262	1
0.048379579	2	7.57E-01	-0.078859603	2
0.792302906	3	1.21E-01	1	3
-0.015775046	1	7.83E-01	0.124242534	1
1	3	5.25E-02	1	3
0.580853465	3	2.08E-01	2	3
2	14	6.47E-05	2	14
2	10	2.29E-04	3	10
2	15	5.78E-05	1	15
0.091227527	40	8.07E+00	0.984600618	40
0.222570136	9	5.72E-01	0.870372609	9
0.42488733	8	2.27E-01	0.993783617	8
0.290047935	22	3.56E-01	0.811090153	22
-0.57554498	39	4.04E+05	0.330825416	39
0.088237094	6	9.02E-01	0.264663317	6
0.877060423	22	1.11E-03	0.954025912	22
0.894347509	4	7.30E-02	1	4
1	7	4.20E-03	1	7
0.886290165	8	2.87E-02	1	8
-0.345522471	2	1.79E+00	-0.734145989	2
0.331522544	7	3.55E-01	0.034726709	7
-0.152930281	13	6.69E+00	0.956861781	13
0.235561389	18	5.85E-01	0.519399017	18
0.523262258	4	2.19E-01	-0.388998264	4
0.682237624	9	6.11E-02	0.504629879	9
-0.590695923	1	2.22E+00	1	1
1	3	6.74E-02	0.420335913	3
0.495726654	6	1.98E-01	-0.024125715	6
-0.282480624	8	5.43E+00	0.942814954	8
0.733310313	9	4.76E-02	0.913814124	9
-0.00027795	3	9.30E-01	0.045492726	3
-0.002581892	3	9.35E-01	0.005380911	3
-0.113041841	6	1.91E+00	0.732942339	6
0.750724174	6	7.67E-02	0.571036127	6
0.582456171	4	1.83E-01	0.17187326	4
-1	3	1.30E+01	-0.38367054	3
0.103022812	12	1.23E+00	0.867403941	12
0.390849515	5	3.08E-01	0.250510361	5
-0.581511979	5	7.90E+00	-2	5
0.268815089	47	4.06E-01	0.89918015	47
-0.14197719	7	2.48E+00	0.357267195	7
0.55816315	9	1.12E-01	0.858664972	9
-0.636543454	16	4.12E+02	0.086504291	16
2	12	1.93E-05	2	12

-0.133544797	9	3.24E+00	-0.299033206	9
0.465348134	11	1.50E-01	1	11
-0.421543148	5	4.63E+00	0.410273231	5
0.092382443	12	1.31E+00	0.726049268	12
0.890701262	5	5.80E-02	0.22409865	5
-0.635998122	15	2.91E+02	-0.077877761	15
0	1	7.61E-01	0	1
0.0073899	5	1.11E+00	0.113105592	5
-0.000555991	2	8.42E-01	-0.083888358	2
-1	11	6.01E+02	-0.795252473	11
0	1	7.61E-01	-0.070259545	1
-0.389236482	4	3.24E+00	-0.072590689	4
0.042618268	5	9.84E-01	0.323228499	5
-0.458381908	6	6.89E+00	-1	6
-0.000210624	4	1.03E+00	-0.000693242	4
-0.506747282	4	4.59E+00	0	4
-0.184861701	15	1.15E+01	-0.622610861	15
1	14	9.72E-04	2	14
0.119915708	8	8.93E-01	-0.085438471	8
-0.02137754	1	7.91E-01	0.035508714	1
-0.263187217	4	2.24E+00	-0.022688892	4
-0.160155478	7	2.67E+00	-0.04843721	7
-0.303677167	4	2.52E+00	-0.22447591	4
-0.504222626	2	2.54E+00	-0.580137619	2
0.116197916	4	7.28E-01	-0.342165197	4
0.531173186	13	8.43E-02	0.736836986	13
0.58712866	5	1.60E-01	0.617706554	5
1	11	1.56E-03	1	11
0.745904297	13	2.13E-02	0.980248667	13
0.664863611	4	1.44E-01	-0.546507944	4
0.337149831	10	3.18E-01	0.162725535	10
0.262482985	8	4.71E-01	0.935163346	8
-0.542700879	7	1.28E+01	-0.280808233	7
0.926086235	8	2.40E-02	1	8
0.398798107	4	3.16E-01	-0.520079224	4
0.793955926	13	1.57E-02	0.699028609	13
2	21	2.41E-09	3	21
2	7	1.60E-03	1	7
0.559833963	5	1.75E-01	-0.330186986	5
0.680806813	6	9.95E-02	-0.17191588	6
-0.028001619	4	1.12E+00	0.206195595	4
0.299146622	5	4.18E-01	1	5
-0.618007031	4	6.38E+00	0.43499837	4
-0.801574092	2	4.88E+00	0.070152866	2
-1	6	2.10E+02	-0.902968198	6
-1	3	1.22E+01	-1	3
-0.695095816	6	1.66E+01	-1	6

-2	9	1.02E+04	-2	9
-0.067221868	5	1.42E+00	-0.420841298	5
0.161886628	15	9.64E-01	1	15
-0.17738195	5	2.05E+00	0.766235865	5
0.446456215	2	3.16E-01	-0.485273365	2
0.659037546	12	4.33E-02	1	12
0.242697698	9	5.19E-01	0.725801408	9
0.361028359	5	3.40E-01	1	5
1	8	1.10E-02	0.715703744	8
0.797236331	7	5.26E-02	1	7
-0.438996561	7	8.38E+00	-0.243399188	7
-0.784333101	3	7.00E+00	0.097981706	3
0.647155636	6	1.13E-01	-0.163207331	6
-0.323485151	16	3.89E+01	0.119895047	16
-0.211978387	11	6.80E+00	-0.179376225	11
-0.751014899	8	4.44E+01	-0.797194816	8
-1	6	2.41E+02	-0.84474175	6
-0.308928649	9	7.60E+00	0.448283797	9
-0.400202155	3	2.60E+00	0.600700963	3
-0.552380432	1	2.07E+00	1	1
-0.200950136	2	1.31E+00	-0.879892541	2
-0.191473312	4	1.81E+00	0.029889225	4
-0.279434605	7	4.36E+00	-1	7
-0.634022644	5	9.42E+00	-1	5
-0.268513131	3	1.85E+00	0.067217284	3
0.927413236	4	6.62E-02	1	4
2	14	4.13E-05	2	14
-0.363143125	11	1.59E+01	-0.174732495	11
0.2316906	5	5.23E-01	0.402850307	5
0.522274924	11	1.09E-01	0.922664446	11
0.88052202	16	4.43E-03	1	16
0.602198338	5	1.52E-01	2	5
-1	8	1.47E+02	0.807311977	8
-0.268261397	5	2.78E+00	0.769124145	5
-0.985921514	7	7.90E+01	-0.963391792	7
-1	10	4.51E+02	-0.927708367	10
-2	5	3.72E+02	-1	5
0.565438643	11	8.54E-02	1	11
1	43	6.44E-10	2	43
0.07156812	5	8.93E-01	-0.589563262	5
0.99817129	3	7.12E-02	0.547493333	3
-0.355552082	5	3.72E+00	0.368849778	5
-0.046851382	1	8.29E-01	0.049229566	1
0.399658925	7	2.69E-01	0.79484413	7
0.294287662	5	4.25E-01	-0.662600172	5
-0.287859933	11	1.04E+01	-0.314204876	11
-0.647525022	6	1.39E+01	0	6

-0.131924449	3	1.31E+00	0.035485869	3
0.199092947	30	1.05E+00	0.521729564	30
0.999491199	6	3.04E-02	1	6
0.639220608	10	6.52E-02	0.032766441	10
-0.519959807	3	3.54E+00	0.361850391	3
-0.373226994	3	2.43E+00	-0.298167102	3
-0.740941748	13	2.87E+02	-0.22587454	13
-0.498880607	4	4.49E+00	-0.588188723	4
-0.032645622	5	1.26E+00	0.126933062	5
0.737626529	4	1.16E-01	0.651525853	4
0.300499607	4	4.22E-01	0.64498256	4
1	8	4.68E-03	2	8
-0.550820983	4	5.23E+00	0.098087997	4
-1	9	2.22E+02	-0.975879399	9
-0.030731355	8	1.76E+00	-0.0214361	8
0.905041797	3	9.04E-02	0.3458998	3
0.962464909	3	7.80E-02	0.671540743	3
0.931605506	13	6.51E-03	1	13
2	26	3.43E-10	3	26
0.002730666	5	1.12E+00	1	5
0.57317929	17	4.00E-02	0.640386479	17
-0.228519622	2	1.39E+00	-1	2
0.96592726	10	1.17E-02	2	10
-0.540729022	6	9.37E+00	-0.333570605	6
-0.797973471	14	6.20E+02	-0.214851594	14
0.569667721	34	5.52E-03	1	34
0.072096918	7	1.03E+00	1	7
-0.260409081	7	4.03E+00	-0.763157915	7
-0.066207315	8	2.06E+00	0.225591092	8
2	19	1.31E-07	2	19
0.319748673	26	2.43E-01	0.531837194	26
0.353441155	20	2.05E-01	1	20
-0.090803832	7	2.01E+00	0.677379979	7
0.151668041	9	8.08E-01	-0.063419153	9
-0.171090124	5	2.01E+00	-0.007300473	5
0.434820469	59	7.32E-03	0.662118126	59
-0.038287501	4	1.15E+00	0.153723491	4
-0.567365293	7	1.42E+01	-0.156403563	7
-0.931462105	6	4.01E+01	0.556627778	6
-0.09749647	2	1.04E+00	0.909084878	2
-0.183222849	5	2.09E+00	0.460404341	5
1	11	1.10E-03	2	11
2	10	9.18E-05	2	10
-0.419106571	14	4.76E+01	-0.273618066	14
-0.728424145	6	1.88E+01	-0.298396047	6
1	20	1.03E-05	1	20
2	5	1.02E-03	1	5

0.070286177	12	1.49E+00	-0.561847875	12
-0.289023809	2	1.59E+00	-0.363696815	2
0.501755256	36	1.22E-02	0.560027623	36
0.307371083	23	2.95E-01	0.669234362	23
0.896264093	18	2.42E-03	1	18
0.611319244	4	1.68E-01	2	4
-0.549900639	5	7.11E+00	0.43049862	5
0.462404138	14	1.21E-01	-0.068906639	14
-0.294019003	9	7.06E+00	0.264735016	9
0.159805159	44	2.99E+00	0.618606648	44
0.106571225	7	8.94E-01	0.725680321	7
0.468222197	10	1.60E-01	0.707039693	10
-0.122105121	5	1.70E+00	0.920998495	5
0.856740602	23	1.08E-03	1	23
2	8	7.40E-04	3	8
-0.380747109	6	5.17E+00	-0.275688896	6
-0.390971907	6	5.37E+00	0.307018786	6
-0.161220576	11	5.11E+00	-0.294723211	11
-0.912690104	9	1.43E+02	-0.649589883	9
0.619485853	8	9.51E-02	0.510401466	8
-0.755665089	10	9.85E+01	-0.160944621	10
-0.592905013	5	8.21E+00	0.375861196	5
-0.770469067	4	1.00E+01	-0.246677506	4
0.957099092	82	5.89E-11	1	82
0.342468055	25	1.94E-01	0.685639852	25
0.49039355	12	1.19E-01	0.735111498	12
0.706082971	26	3.01E-03	2	26
1	8	2.74E-03	3	8
0.218037338	5	5.48E-01	0.644987559	5
0.001662396	4	1.02E+00	0.045437703	4
0.440182984	3	2.99E-01	0.409932792	3
-1	9	2.80E+02	-1	9
1	14	1.85E-03	1	14
0.745565425	7	6.50E-02	0.182193724	7
-0.479608894	9	1.74E+01	-0.582679899	9
0.409903595	5	2.89E-01	0.489239021	5
0.470259493	6	2.18E-01	1	6
1	10	3.39E-03	2	10
0.162119273	4	6.36E-01	0.64570364	4
0.395955242	18	1.54E-01	2	18
0.33108707	7	3.56E-01	1	7
0.316230424	19	2.93E-01	0.512900667	19
0.349304273	3	3.78E-01	2	3
1	9	2.74E-03	2	9
0.492590497	8	1.68E-01	0.03248501	8
0.378070643	11	2.45E-01	-0.281196042	11
2	57	8.44E-14	2	57

3	14	4.87E-08	3	14
0.455855955	29	4.14E-02	0.923270875	29
0.400961723	17	1.56E-01	0.456141501	17
0.289341234	17	3.79E-01	0.333060975	17
-0.02881871	12	2.71E+00	-0.071830623	12
-0.283098806	8	5.44E+00	-0.437140899	8
-0.896785405	15	1.89E+03	-0.52714786	15
0.464735778	10	1.63E-01	0.324642237	10
0.867905954	3	9.95E-02	0.733410953	3
-1	12	1.12E+04	-1	12
-0.011104115	3	9.56E-01	-0.035214696	3
0.124586545	6	7.88E-01	0.663497606	6
-0.434441375	4	3.71E+00	-0.164171354	4
-0.566223583	7	1.41E+01	-0.219394813	7
0.140442426	5	7.10E-01	0.201800659	5
-0.448862244	9	1.50E+01	-0.280223752	9
-0.082425532	3	1.15E+00	0.04671369	3
0.046414825	7	1.14E+00	0.262128545	7
-0.048110956	12	3.04E+00	0.238861132	12
-0.895722956	5	2.26E+01	-0.060820663	5
0.228670735	7	5.42E-01	0.020563028	7
-0.390318573	9	1.13E+01	0.444308801	9
0.240299912	9	5.25E-01	0.821072154	9
0.904957688	5	5.53E-02	0.465969031	5
0.618163422	5	1.44E-01	0.10375708	5
-0.312079253	8	6.20E+00	-0.183390269	8
-0.005180267	2	8.51E-01	-0.586382246	2
-0.267378694	9	6.21E+00	-0.661968649	9
-0.325363578	5	3.36E+00	-0.185505473	5
0.597878624	13	5.50E-02	0.596203446	13
-0.190084759	18	2.01E+01	-0.125662621	18
-0.146489841	12	5.50E+00	-0.94473197	12
0.29029725	22	3.55E-01	0.208269413	22
1	5	1.08E-02	2	5
1	2	5.72E-02	1	2
0.222607133	24	7.11E-01	0.571292668	24
-0.682206189	10	6.70E+01	-1	10
-1	7	8.43E+01	0.599675803	7
0.586294814	6	1.41E-01	0.692385966	6
-0.954334328	9	1.76E+02	-0.570774012	9
0.257833293	8	4.81E-01	0.808028531	8
0.089272365	9	1.09E+00	1	9
-0.007503119	5	1.16E+00	-0.494579549	5
0.66253242	3	1.69E-01	1	3
1	3	4.12E-02	-0.19723434	3
1	9	6.14E-03	0.976875076	9
0.368736655	43	6.90E-02	0.261497822	43

0.218479209	4	5.38E-01	0.271873952	4
0.867354414	5	6.27E-02	0.209033081	5
0.752669041	42	8.77E-05	1	42
2	49	1.99E-15	2	49
1	2	8.54E-02	-1	2
1	13	3.46E-03	2	13
0.294117003	2	4.41E-01	0.444828118	2
-0.583631157	18	5.27E+02	-0.499312861	18
0.077586558	7	1.01E+00	1	7
0.403334052	8	2.51E-01	0.486988122	8
-0.967842682	4	1.79E+01	1	4
-0.317907581	7	5.10E+00	-0.384272603	7
0.065773795	6	9.81E-01	0.843680648	6
-0.048124054	9	2.14E+00	0.533751684	9
0.481715827	6	2.09E-01	1	6
0.087960092	14	1.53E+00	0.790167042	14
-0.889289684	6	3.43E+01	-0.27339789	6
-0.88960547	16	2.78E+03	-2	16
-0.732252796	4	8.94E+00	-0.526671395	4
-0.221109277	4	1.97E+00	-1	4
0.198884197	12	6.89E-01	0.254228741	12
0.897487674	9	2.14E-02	1	9
-0.024821073	8	1.71E+00	-0.273416143	8
3	20	5.93E-10	3	20
3	1	3.15E-03	3	1
-0.090262618	2	1.03E+00	-0.046007897	2
0.13638775	6	7.54E-01	-0.551614571	6
-0.140737781	7	2.47E+00	0.422661982	7
0.321537301	3	4.06E-01	0.129408837	3
0.718009906	5	1.03E-01	-0.276419545	5
0.726164916	36	4.05E-04	0.662198982	36
0.535846537	5	1.90E-01	0.368014756	5
-0.147867418	4	1.59E+00	0.117082046	4
0.114182344	9	9.69E-01	0.024835755	9
0.749381987	4	1.12E-01	0.243040362	4
-0.009722925	18	4.49E+00	-0.032242432	18
0.446784902	3	2.94E-01	-0.09347133	3
-0.29958043	26	2.76E+02	-0.091428353	26
1	5	1.39E-02	1	5
-0.409482212	4	3.44E+00	-1	4
-1	4	5.27E+01	-0.558789188	4
-0.14360802	3	1.34E+00	-0.537094633	3
0.900011654	2	1.17E-01	2	2
1	23	6.66E-05	1	23
0.916738931	3	8.78E-02	0.787125799	3
0.125509313	5	7.46E-01	0.679353022	5
-0.034164594	1	8.10E-01	0.676290544	1

-1	5	4.11E+01	0.035951919	5
-1	5	7.60E+01	-0.19276003	5
-1	5	4.04E+01	-2	5
0.090543617	6	8.95E-01	0.843800198	6
0.062864212	7	1.07E+00	0.676145948	7
-0.124981711	4	1.49E+00	0.603266671	4
0.047778318	3	8.22E-01	0.275253953	3
0.508178038	6	1.89E-01	0.134087132	6
0.397916776	5	3.00E-01	-0.39559636	5
-0.444475454	6	6.55E+00	0.991643521	6
-0.806254204	4	1.11E+01	-0.400612083	4
-1	7	1.20E+02	-1	7
1	9	9.96E-03	0.987437801	9
0.585798412	3	2.06E-01	0.749946773	3
-0.921491383	5	2.46E+01	-0.851174588	5
-0.697439473	14	3.14E+02	-0.340874408	14
-1	9	2.68E+02	-1	9
-1	14	5.31E+03	-0.707206987	14
-1	7	3.75E+02	-0.693092521	7
0.172936052	4	6.16E-01	0.366306434	4
1	26	1.78E-06	1	26
1	31	1.83E-06	2	31
1	21	6.63E-06	2	21
0.730647688	29	1.33E-03	2	29
-2	7	7.82E+02	-1	7
0.076560034	21	2.71E+00	0.552492811	21
2	5	5.01E-03	1	5
0.613116732	20	1.94E-02	0.235005638	20
1	24	9.71E-05	2	24
0.760219831	7	6.12E-02	2	7
-0.173728421	3	1.45E+00	0.909382297	3
-0.724320128	4	8.74E+00	-0.504660895	4
0.526326321	8	1.44E-01	0.723854369	8
0.768528367	9	4.01E-02	0.81418692	9
-0.473167567	5	5.50E+00	-0.213316265	5
-0.797217028	5	1.62E+01	-0.478024479	5
1	5	1.02E-02	0.949594297	5
-0.462809995	4	4.03E+00	0.148632087	4
0.778521178	4	1.03E-01	0.825312519	4
0.301949915	8	3.95E-01	0.949086229	8
0.050454754	6	1.04E+00	0.524741987	6
-0.030568947	5	1.26E+00	0.054313553	5
-0.038386673	2	9.15E-01	0	2
0.425832432	22	9.37E-02	0.696229958	22
0.660623004	6	1.07E-01	1	6
1	6	2.58E-02	2	6
0.85380994	5	6.56E-02	0.11861333	5

0.907939927	23	6.39E-04	2	23
2	15	1.43E-06	2	15
0.51422554	3	2.47E-01	-0.860310765	3
0.739205163	24	2.98E-03	1	24
-0.331308771	2	1.74E+00	0.865251637	2
0.236492519	3	5.06E-01	0.931791095	3
-0.073903614	5	1.45E+00	-0.479260107	5
-0.438531271	61	1.54E+07	-0.262728165	61
-0.741569372	4	9.19E+00	-0.542591654	4
-1	3	3.43E+01	-0.701737984	3
-2	4	2.90E+02	-2	4
-0.225453963	5	2.41E+00	-0.021546455	5
-0.399709017	3	2.60E+00	-0.835315104	3
0.063156612	5	9.19E-01	0	5
-0.074877509	3	1.13E+00	0.137424453	3
-0.686577838	3	5.44E+00	-0.627207929	3
0.160024213	32	1.88E+00	0.613348789	32
-0.067172825	6	1.61E+00	2	6
0.476207743	7	1.96E-01	1	7
-0.062140651	4	1.23E+00	-0.627044839	4
-0.150376958	3	1.37E+00	-1	3
0.205860616	7	5.95E-01	1	7
-0.057769546	2	9.55E-01	0	2
0.328706292	41	1.49E-01	0.695802735	41
0.32718207	5	3.80E-01	0.131260295	5
0.387578219	2	3.60E-01	1	2
2	26	1.16E-07	2	26
0.047910535	15	2.18E+00	0.350948888	15
-0.699014985	7	2.44E+01	-0.262683061	7
-0.028063058	1	8.01E-01	0.046542818	1
-0.019508181	4	1.09E+00	-0.484337182	4
-0.78539419	8	5.18E+01	-0.715083392	8
-0.086913727	4	1.33E+00	-0.016437601	4
0.302197413	7	4.01E-01	-0.084070036	7
0.883910382	5	5.93E-02	2	5
0.055000747	1	6.89E-01	0.031018592	1
0.055000747	1	6.89E-01	0.031018592	1
0.033298471	3	8.53E-01	0.022271857	3
-0.17509115	5	2.03E+00	0.34625348	5
-0.341227277	8	7.06E+00	0.032396824	8
0.952176658	8	2.14E-02	2	8
0.735404359	13	2.28E-02	0.269570278	13
0.129605279	3	6.66E-01	-0.361341473	3
0.024203174	3	8.73E-01	-0.207527546	3
-0.164421639	7	2.72E+00	0.002332927	7
0.222086759	5	5.40E-01	0.119641642	5
-0.48758159	4	4.34E+00	0.243135706	4

-0.541828547	2	2.76E+00	0.674708729	2
0.314437765	9	3.66E-01	0.318546615	9
-0.069302589	11	3.05E+00	0.335698287	11
-0.029689723	4	1.12E+00	0.097543196	4
0.012225926	7	1.32E+00	-0.175324537	7
0.879718303	30	1.63E-04	1	30
-0.340239064	6	4.44E+00	-1	6
2	32	1.28E-08	2	32
1	3	3.82E-02	0.10128853	3
0.689586307	11	4.25E-02	1	11
0.724292567	5	1.01E-01	1	5
0.058011588	5	9.34E-01	0.012703202	5
-0.363122582	9	9.89E+00	0.241803222	9
-0.456531195	9	1.56E+01	-0.200144758	9
-0.402875902	13	3.31E+01	0.266736277	13
-0.65173572	9	4.03E+01	-0.378275425	9
0.0768448	4	8.18E-01	-0.000266952	4
-0.025008743	4	1.11E+00	-0.345847464	4
0.015510497	5	1.08E+00	-0.338685704	5
0.061401459	1	6.81E-01	0.025439705	1
0.273592022	2	4.62E-01	0.190637131	2
1	9	6.85E-03	0.750018984	9
-0.254558603	16	2.31E+01	0.275171764	16
-0.14831307	15	8.88E+00	-0.414307352	15
-0.297946881	9	7.20E+00	-0.770136554	9
0.617741554	12	5.55E-02	0.828980492	12
0.783628238	13	1.68E-02	0.324034485	13
0.644856746	12	4.72E-02	0.57543231	12
-0.054594273	6	1.54E+00	0.262322896	6
0.520129842	15	7.42E-02	0.207991633	15
-0.066588486	7	1.82E+00	0.099568429	7
-1	5	6.27E+01	0.455334601	5
-0.08285769	13	4.27E+00	-0.275057146	13
2	16	6.27E-06	2	16
0.8129457	12	1.72E-02	0.952295788	12
0.513678306	11	1.14E-01	0.926862432	11
0.120921853	3	6.81E-01	0.038544827	3
-0.502727832	5	6.07E+00	-0.673556298	5
-0.33577654	3	2.21E+00	0.375915158	3
1	30	1.46E-05	1	30
-0.027477774	6	1.39E+00	-0.438060186	6
-0.466269557	5	5.38E+00	0.102940344	5
-0.072333139	12	3.52E+00	-0.162517474	12
-0.372484881	8	8.13E+00	0.00185459	8
0.078289874	7	1.00E+00	-0.76991633	7
0.143249652	5	7.03E-01	-0.750914957	5
0.009853907	4	9.97E-01	-0.008354934	4

0	6	1.25E+00	-0.26415668	6
-0.762353188	6	2.14E+01	-0.566866803	6
0.152691737	7	7.40E-01	-0.376099412	7
1	23	4.43E-05	2	23
1	2	5.99E-02	1	2
0.51768023	3	2.45E-01	0.153626255	3
0.358111647	2	3.84E-01	0.450805491	2
0.929361124	5	5.10E-02	0.452793916	5
-0.22498779	18	2.68E+01	-0.04589426	18
-0.394428791	6	5.44E+00	-0.798831889	6
1	4	4.14E-02	2	4
1	8	2.13E-03	2	8
-0.479435437	3	3.19E+00	0.354396612	3
-0.852922231	8	7.01E+01	-0.739186576	8
0.766370293	14	1.54E-02	2	14
0.242097991	29	5.99E-01	0.242821855	29
0.146888094	9	8.27E-01	0.053385681	9
0.15589701	2	5.98E-01	0.596621407	2
0.134321447	7	7.98E-01	-0.016698033	7
-0.059195378	4	1.22E+00	0.515639395	4
-0.697244428	4	8.06E+00	-0.151673886	4
-0.565949882	6	1.03E+01	-0.955391853	6
2	17	1.08E-05	2	17
2	11	1.45E-04	2	11
0.025916553	7	1.24E+00	0.070221413	7
-0.882527832	6	3.34E+01	-0.451849915	6
1	52	2.00E-08	1	52
0.921745097	3	8.66E-02	1	3
-0.247913115	4	2.14E+00	0.029054412	4
0.265126951	6	4.67E-01	-0.490715407	6
0.860260801	24	8.27E-04	0.51296285	24
2	11	4.60E-05	2	11
0.965555231	5	4.52E-02	0.462732415	5
1	1	1.01E-01	1	1
0.381994165	14	2.09E-01	1	14
-0.853137871	4	1.28E+01	0.129406851	4
1	18	2.36E-04	1	18
2	28	2.05E-08	2	28
0.289261128	4	4.37E-01	0.563501656	4
-0.087752618	6	1.74E+00	-0.338158346	6
0.067399758	6	9.75E-01	0.051348542	6
1	30	1.03E-06	2	30
0.01801167	18	3.56E+00	1	18
4	26	2.59E-17	4	26
-1	3	1.96E+01	0.659814821	3
0.248527297	8	5.02E-01	0.447965366	8
0.103227691	9	1.02E+00	0.081107526	9

-0.583779034	47	6.11E+06	-0.331404856	47
0.269794126	63	3.77E-01	0.52226115	63
0.309495171	16	3.29E-01	0.578101567	16
0.294584292	6	4.19E-01	2	6
-0.201470218	10	5.37E+00	0.370502654	10
-0.507579933	6	8.28E+00	0	6
-0.545518097	10	3.27E+01	-1	10
0.106470762	3	7.07E-01	-0.206121355	3
0.242176649	8	5.16E-01	-0.238623514	8
0.514270855	10	1.26E-01	-0.444008655	10
0.694095939	10	4.88E-02	1	10
0.675518958	2	1.91E-01	1	2
-0.152357985	9	3.55E+00	0.353430328	9
0.458706014	11	1.56E-01	-0.267933045	11
-0.029056481	2	8.97E-01	0.046830289	2
1	12	3.08E-04	1	12
0.189690977	4	5.86E-01	0.434542504	4
-0.005571726	11	2.13E+00	-0.115326725	11
0.322625159	51	1.30E-01	0.53219362	51
1	1	1.15E-01	2	1
0.375848621	3	3.53E-01	0.369448182	3
0.513751515	12	1.04E-01	1	12
0.501545285	5	2.13E-01	-0.171691031	5
-0.293101498	3	1.98E+00	-0.044868928	3
-0.291936428	5	3.01E+00	-0.975055265	5
0.095701268	12	1.28E+00	1	12
0.026911126	5	1.04E+00	0.043775169	5
-0.46300236	5	5.32E+00	-0.065314204	5
-0.014922143	5	1.19E+00	-0.900760776	5
-0.673699687	17	7.80E+02	-0.912086286	17
0.244517859	3	4.95E-01	-0.616284997	3
-0.233292366	8	4.35E+00	-0.94064813	8
-0.378843186	10	1.36E+01	0.93479211	10
-0.449133297	7	8.74E+00	0.935777555	7
-0.265613751	7	4.12E+00	0.219309664	7
-0.489128587	10	2.43E+01	0.186807902	10
0.227215154	18	6.27E-01	0.476740663	18
0.985646007	12	6.08E-03	0.733467194	12
-0.480875209	4	4.25E+00	-0.291761898	4
0.15570924	7	7.31E-01	-0.089075588	7
-1	2	8.75E+00	-0.471915323	2
-0.316564026	9	7.88E+00	0.439657994	9
0.528845616	38	6.60E-03	1	38
2	12	1.05E-04	2	12
-0.357104057	6	4.73E+00	0.701923546	6
0.911797607	19	1.66E-03	2	19
-0.864189962	6	3.12E+01	0.011441838	6

1	4	2.21E-02	2	4
0.123423606	8	8.79E-01	0.708385131	8
0.826682804	2	1.37E-01	-0.203661739	2
-0.132204168	2	1.12E+00	-0.020058239	2
-0.012367215	5	1.18E+00	0.226863941	5
0.096332425	4	7.72E-01	0.905806637	4
-0.296526761	5	3.05E+00	0.401669861	5
-0.244105398	3	1.74E+00	-0.04126545	3
-1	5	7.39E+01	-0.263966038	5
-0.900074749	5	2.29E+01	-1	5
-0.665119818	7	2.12E+01	-0.585698592	7
-0.23904744	12	9.59E+00	-0.382514504	12
-0.635227637	7	1.87E+01	-0.093099648	7
-0.491859914	2	2.47E+00	-0.281199593	2
-0.408213418	10	1.59E+01	-0.802249271	10
-0.230647925	5	2.45E+00	-0.205554588	5
0.205483728	2	5.36E-01	0.065999886	2
1	6	1.32E-02	0.542367418	6
0.048545451	3	8.20E-01	0.044027627	3
0.911197888	12	9.51E-03	1	12
0.997179597	8	1.75E-02	1	8
-0.367902804	2	1.88E+00	-0.498205525	2
-0.173113858	14	8.98E+00	0.81411125	14
0.265275703	5	4.68E-01	0.283911573	5
0.079531577	7	9.99E-01	0.014926675	7
0.524272094	9	1.32E-01	0.42078477	9
-0.159693591	9	3.67E+00	-0.394451206	9
-0.08262987	21	1.22E+01	0.965341649	21
0.3296885	5	3.77E-01	0.971090576	5
0.370272209	49	5.22E-02	0.810955999	49
0.788216068	1	1.83E-01	0.63556737	1
-0.667217181	13	1.79E+02	-0.395194603	13
0.07965443	12	1.41E+00	-0.466867747	12
1	8	1.15E-02	1	8
0.02060718	16	2.90E+00	0.920609541	16
-0.4463864	5	5.03E+00	-0.288122938	5
0.962191431	10	1.20E-02	0.091125215	10
0.801543186	6	6.35E-02	0.321296589	6
-0.080432535	7	1.93E+00	0.004287469	7
-1	9	7.00E+02	-1	9
-0.563548931	5	7.44E+00	-0.727144271	5
2	5	5.20E-03	2	5
1	9	3.57E-03	2	9
-1	7	9.69E+01	0.050965017	7
0.255704105	5	4.83E-01	1	5
0.529452741	6	1.75E-01	0.84543204	6
-0.02387304	7	1.53E+00	0.417271319	7

-2	1	1.21E+01	-0.623621157	1
0	1	7.61E-01	0	1
0	1	7.61E-01	0	1
-0.926958194	2	6.42E+00	0	2
0.024890847	5	1.04E+00	-0.003186624	5
0.235124321	7	5.28E-01	0.302842027	7
-0.401135454	9	1.19E+01	-0.364581529	9
0.055928555	8	1.19E+00	0.717704075	8
0.256100997	2	4.80E-01	-0.364640959	2
-0.461044596	5	5.29E+00	-0.882805417	5
-0.001601022	4	1.03E+00	-0.015219013	4
0.479163247	3	2.71E-01	0.951886369	3
0.972295334	3	7.61E-02	2	3
1	17	1.34E-03	0.870547548	17
2	6	1.91E-04	2	6
-0.519481593	5	6.42E+00	0.009022854	5
0.368576531	14	2.29E-01	1	14
-0.447567716	13	4.40E+01	0.050051305	13
0.099359058	27	3.16E+00	0.131371641	27
2	19	6.58E-07	2	19
0.821739493	17	5.58E-03	1	17
2	37	3.74E-11	2	37
-0.436076653	12	3.13E+01	-0.292194135	12
-0.796728571	7	3.64E+01	-0.776588948	7
-0.26726024	18	3.81E+01	0.976065884	18
-0.122133769	11	4.10E+00	0.404454737	11
0.841841225	48	4.87E-06	1	48
0.004312407	23	6.52E+00	0.062345001	23
0.072070464	4	8.30E-01	0.112472921	4
0.131774798	5	7.31E-01	0.517307469	5
0.148462377	9	8.20E-01	0.73202565	9
0.259020018	21	4.83E-01	0.309216549	21
-0.464432016	10	2.14E+01	-0.966387991	10
-0.685047595	5	1.12E+01	-1	5
0.042361369	12	1.77E+00	-0.1454176	12
-0.013103857	1	7.80E-01	-0.021785441	1
-0.645751892	7	1.96E+01	-0.740020144	7
0.674651977	8	7.42E-02	0.411810225	8
-0.507542319	7	1.11E+01	-0.674217123	7
-0.104785762	7	2.13E+00	0.60930338	7
-0.373498664	7	6.41E+00	0.624971559	7
0.65234143	5	1.29E-01	0.318495334	5
0.292610056	5	4.27E-01	0.363818222	5
-0.401294963	7	7.18E+00	-0.825844731	7
0.00727497	4	1.00E+00	-0.36609464	4
0.068397273	6	9.71E-01	-0.547270584	6
-0.006144232	8	1.57E+00	0.005009544	8

-0.577343787	4	5.66E+00	-1	4
0.764411065	8	4.96E-02	2	8
0.51086989	10	1.28E-01	1	10
0.901416315	30	1.23E-04	1	30
0.210301316	8	5.95E-01	0.460643191	8
1	21	8.27E-05	2	21
2	20	2.02E-06	2	20
0.810249239	7	4.98E-02	0.801991353	7
0.460370363	10	1.67E-01	0.217293577	10
1	21	9.73E-05	2	21
-0.019693038	8	1.67E+00	0.219511497	8
0.167986353	6	6.71E-01	0.09761892	6
-0.950757026	9	1.73E+02	-1	9
-1	8	1.88E+02	-0.411543472	8
-0.00030863	2	8.42E-01	-0.088796943	2
-0.032890226	1	8.08E-01	-0.108326956	1
-0.65755478	4	7.17E+00	0.24042436	4
-0.274868086	2	1.54E+00	0.370789472	2
-0.033575894	3	1.01E+00	0	3
-0.037954741	1	8.16E-01	-0.062893326	1
-1	16	6.63E+03	-2	16
1	6	7.85E-03	0.730174874	6
0.484924114	5	2.25E-01	0.657084523	5
-0.195483549	3	1.54E+00	-0.163234054	3
-0.321085227	5	3.31E+00	-0.298768522	5
-0.408479135	6	5.73E+00	-0.409164811	6
-1	9	6.02E+02	-0.208639622	9
-0.391941116	11	1.87E+01	-0.313548355	11
-0.120168854	4	1.46E+00	-0.649390621	4
0.397018741	5	3.01E-01	-0.327693496	5
-0.399996264	6	5.55E+00	-0.138572307	6
0.001886411	8	1.52E+00	-0.240631183	8
0.002289282	3	9.24E-01	-2	3
0.150308918	3	6.31E-01	-0.534513139	3
1	16	1.12E-04	1	16
0.395150838	8	2.60E-01	-0.189350512	8
-0.236106084	6	3.02E+00	0.018723824	6
-0.090243341	2	1.03E+00	0.027027882	2
-0.902966987	4	1.48E+01	-0.84092873	4
1	5	3.28E-02	0.050771253	5
0.464423924	6	2.23E-01	0.90012396	6
0.964424626	8	2.02E-02	0.357472068	8
0.736100169	14	1.89E-02	0.824994882	14
-0.860334987	7	4.72E+01	0.270259127	7
-0.344414135	3	2.26E+00	-0.269593988	3
-0.343828969	5	3.57E+00	-0.311295575	5
-0.430553171	8	1.05E+01	-0.559917116	8

-0.294196159	6	3.74E+00	0	6
-0.465045464	6	7.07E+00	-0.829286782	6
-0.371175602	4	3.08E+00	0.518861418	4
0.218077636	10	5.94E-01	-0.357751272	10
0	7	1.38E+00	0.152392702	7
-0.83994224	6	2.85E+01	-0.118905416	6
-0.380961562	5	4.05E+00	-0.3393307	5
-0.43758298	6	6.38E+00	-0.492200411	6
-0.316068429	3	2.10E+00	-1	3
0.253786245	2	4.82E-01	-0.688434305	2
-0.432825561	5	4.81E+00	-0.188220938	5
-0.603653156	7	1.65E+01	-0.731156837	7
-0.633425082	14	2.03E+02	-0.448930693	14
0.292002337	4	4.33E-01	-0.116404859	4
0.154822838	6	7.04E-01	0.502505837	6
-0.013401717	2	8.66E-01	0	2
0.217848243	2	5.22E-01	-0.089979084	2
-0.025069414	25	1.09E+01	0	25
-0.049250194	6	1.50E+00	0	6
-0.509822389	7	1.12E+01	-0.750373634	7
0.061935443	5	9.22E-01	-0.289010865	5
1	66	6.74E-10	2	66
3	6	3.81E-05	3	6
2	13	3.17E-06	3	13
0.9256019	3	8.58E-02	0.509595843	3
-0.208739036	2	1.33E+00	0	2
-0.645976221	4	6.93E+00	-0.477757102	4
-0.004481411	1	7.68E-01	0	1
-0.001121741	2	8.43E-01	0	2
-0.220542398	2	1.36E+00	-0.338665066	2
-0.672777026	2	3.68E+00	0.11483808	2
-2	7	8.02E+02	-0.859725713	7
0.544129038	2	2.55E-01	0.377710215	2
0.077505083	13	1.53E+00	0.857797656	13
-0.111215646	7	2.18E+00	0	7
0	7	1.38E+00	0	7
-0.006489222	21	5.94E+00	-0.015945876	21
-0.341809209	17	5.62E+01	-0.221239028	17
0.085506728	5	8.53E-01	0	5
-0.031282814	9	1.97E+00	-0.040695536	9
-0.144443206	2	1.15E+00	0	2
0.286970069	5	4.35E-01	0.267064091	5
0.207806763	2	5.33E-01	0.191373734	2
0.443133472	3	2.97E-01	-0.113303575	3
0.475692879	6	2.13E-01	-0.120499777	6
0.403045887	2	3.48E-01	-0.083385954	2
0.226039782	6	5.40E-01	-0.282237787	6

-0.67913953	6	1.57E+01	-0.680348231	6
-0.29241093	3	1.97E+00	0.389394111	3
-0.108612745	6	1.88E+00	0.019289611	6
0.059390779	4	8.61E-01	-0.861039143	4
-0.015537681	3	9.67E-01	-0.194968559	3
-0.342272899	3	2.24E+00	-0.018249923	3
-1	50	8.65E+14	-0.532252626	50
-1	15	4.22E+03	-0.680143518	15
-0.279782802	6	3.55E+00	0.470496778	6
1	73	9.18E-11	1	73
2	1	2.88E-02	3	1
0.787112079	12	2.01E-02	0.618133691	12
-0.046288025	6	1.49E+00	0.98479482	6
-0.051383467	15	4.44E+00	0.959508412	15
-0.608593247	6	1.21E+01	-0.301510904	6
-0.48230487	9	1.77E+01	-0.364952988	9
-0.110534339	5	1.64E+00	-0.050196437	5
0.192487588	7	6.28E-01	-0.249252326	7
-0.221576301	9	4.97E+00	0.006256259	9
-0.441498745	25	1.06E+03	-0.55530379	25
-0.194919041	7	3.08E+00	-0.245512627	7
-0.4319372	6	6.25E+00	-0.518030195	6
-0.249875214	8	4.69E+00	-0.387797293	8
0.185640813	25	1.08E+00	0.162644432	25
1	17	2.56E-04	1	17
-0.324476551	6	4.19E+00	-0.28960871	6
-0.146582539	6	2.16E+00	-0.03423527	6
0.090143374	5	8.39E-01	0.464829792	5
0.050235459	31	7.76E+00	0.298803204	31
-0.254676126	14	1.56E+01	-0.397250199	14
-0.625866499	7	1.80E+01	0.752969155	7
0.01912194	6	1.17E+00	0	6
0	1	7.61E-01	0	1
0	1	7.61E-01	0	1
0	4	1.03E+00	0.146332553	4
0	2	8.41E-01	0.093723392	2
0	3	9.29E-01	0.668349108	3
-0.694916118	9	4.97E+01	0.066088598	9
-0.758606049	6	2.11E+01	-1	6
-0.191666388	3	1.52E+00	-0.329526843	3
-0.205936731	4	1.89E+00	-0.111999035	4
0.217111192	4	5.40E-01	0.595394361	4
-0.861799254	3	8.54E+00	-1	3
-1	11	1.03E+03	-0.318813727	11
-0.587959942	6	1.12E+01	-1	6
-0.192124798	2	1.28E+00	-0.309942005	2
-0.749448219	10	9.53E+01	-1	10

-0.327493425	10	1.04E+01	-0.373275951	10
0.158417921	6	6.95E-01	-0.236131735	6
-0.159361294	3	1.40E+00	0	3
-0.761411892	10	1.02E+02	0.203790907	10
-0.068680755	3	1.11E+00	-0.08398232	3
0.078756302	2	7.08E-01	0.685517044	2
0.111194744	2	6.59E-01	0.318167114	2
0.786091383	4	1.01E-01	1	4
-0.192121985	14	1.02E+01	0.334941662	14
0.13471522	2	6.26E-01	0.504655612	2
-0.003962064	2	8.49E-01	0	2
-0.103514433	2	1.06E+00	0	2
-0.15581276	4	1.63E+00	0.622843666	4
2	7	3.18E-04	2	7
0.089371397	1	6.48E-01	-0.590923418	1
2	5	6.71E-03	2	5
-0.498434913	4	4.48E+00	-0.092027055	4
0.414640465	5	2.84E-01	1	5
0.425883008	6	2.57E-01	2	6
-0.327501407	2	1.72E+00	-0.43393414	2
-0.076594677	4	1.29E+00	-0.025710076	4
-0.535593276	5	6.78E+00	0.576873919	5
-0.138850425	3	1.33E+00	0.056236898	3
-0.285219655	5	2.94E+00	-0.709080907	5
-0.536748383	5	6.80E+00	0.358767366	5
0.007568613	3	9.11E-01	0.226833806	3
0.099468273	4	7.65E-01	0.591928949	4
-0.614860228	13	1.28E+02	-0.604391244	13
1	32	2.98E-08	2	32
3	17	3.39E-09	3	17
2	14	7.53E-05	2	14
0.717295637	7	7.30E-02	-0.129429497	7
0.595621228	4	1.76E-01	-0.47700611	4
0.254753144	12	4.92E-01	0.617453814	12
0.202267125	9	6.31E-01	0.298732158	9
-1	5	1.51E+02	-0.349344589	5
-0.232725161	3	1.69E+00	0.023367749	3
-0.502950666	1	1.89E+00	0	1
1	6	2.15E-02	0.807908683	6
2	17	1.87E-05	2	17
0.565353722	3	2.17E-01	0.475855567	3
-0.24742594	6	3.15E+00	-0.07964833	6
0.471924519	8	1.84E-01	0.456975433	8
0.166941276	3	6.05E-01	0.278062211	3
0.936320132	7	2.97E-02	0.914788745	7
0.27637705	5	4.51E-01	0.738286085	5
-0.026223664	7	1.54E+00	0.877380922	7

-0.778046985	9	7.45E+01	-1	9
-0.513898678	8	1.53E+01	0.783790073	8
-0.068819568	19	8.32E+00	0.009582679	19
0.840005424	10	2.27E-02	1	10
0.281394432	11	4.23E-01	2	11
0.870217869	13	9.64E-03	1	13
-0.134468374	16	9.35E+00	-0.745385113	16
-2	13	6.86E+04	-2	13
-1	5	3.22E+01	-0.703085962	5
-0.09444878	3	1.19E+00	-1	3
-0.779038585	2	4.64E+00	0.659489493	2
0.005174973	4	1.01E+00	-0.129628018	4
-0.274431661	13	1.46E+01	-0.366607309	13
-0.619126594	6	1.25E+01	-0.647920166	6
0.346552714	6	3.45E-01	0.018779137	6
-0.624478541	9	3.53E+01	-1	9
-0.885659288	10	1.95E+02	-0.64780942	10
-1	6	2.83E+02	-0.633276876	6
0.140521811	1	5.90E-01	0.035995012	1
1	13	2.03E-04	2	13
2	3	1.73E-02	0.397290903	3
1	2	4.72E-02	2	2
2	7	7.37E-05	3	7
0.38695262	3	3.43E-01	0.386761975	3
-0.63618945	25	8.98E+03	-0.359554648	25
-0.401329767	4	3.36E+00	0.04423725	4
-0.15383571	6	2.22E+00	0.113536486	6
1	9	1.86E-03	0.686397611	9
2	1	4.96E-02	1	1
0.143406173	1	5.87E-01	0.147689804	1
0.29983154	8	3.99E-01	0.476856076	8
0.8194327	30	3.54E-04	0.785412214	30
0.65444418	9	6.99E-02	0.560172452	9
2	14	4.69E-05	2	14
-0.051492461	18	6.35E+00	-0.173274489	18
0.048998399	4	8.88E-01	-0.120404906	4
-0.684414842	11	9.72E+01	-1	11
-0.397173019	5	4.27E+00	-0.676985154	5
-0.369386505	9	1.02E+01	0.120984017	9
0.377852579	40	6.71E-02	0.462041006	40
-0.835831601	12	3.47E+02	-0.998847508	12
1	12	2.99E-04	2	12
0.22021788	7	5.61E-01	1	7
-0.007199285	14	2.92E+00	0.168896646	14
0.260156373	4	4.76E-01	0.507688081	4
0.7719523	7	5.83E-02	1	7
-0.285728015	4	2.39E+00	0	4

0.437901092	27	5.93E-02	0.549708446	27
-0.076109807	11	3.16E+00	-0.014361032	11
0.045631749	7	1.15E+00	0.040706692	7
-1	4	4.00E+01	1	4
-0.690252882	2	3.82E+00	-0.531950442	2
0.084618344	18	2.05E+00	0.14219243	18
0.769344814	25	1.78E-03	1	25
-0.088715759	15	5.80E+00	0.195580859	15
0.624664224	7	1.07E-01	-0.063168652	7
0.097852616	5	8.18E-01	0.546727369	5
-0.004403532	5	1.15E+00	-0.139999957	5
0.160393916	14	9.37E-01	0.533509128	14
0.44728258	6	2.37E-01	0.914061778	6
3	16	1.59E-08	3	16
3	3	1.21E-03	3	3
0.989530389	9	1.37E-02	2	9
2	17	1.94E-05	1	17
-0.526629832	23	1.48E+03	-0.220776763	23
-0.378147704	5	4.01E+00	0	5
-0.756565414	5	1.42E+01	-0.09537079	5
-0.192067036	6	2.56E+00	0.24596001	6
-1	7	2.00E+02	0.52711834	7
-0.06615221	3	1.10E+00	-0.206324356	3
-1	6	2.17E+02	-1	6
0.018409437	5	1.07E+00	-0.122741935	5
-0.159176698	2	1.19E+00	-0.000281196	2
-1	3	1.36E+01	0.867807186	3
0.400741422	5	2.98E-01	2	5
0.082877409	7	9.85E-01	0.107766726	7
-0.006269715	3	9.44E-01	-0.000351916	3
-0.813096698	10	1.33E+02	-1	10
-0.325791968	12	1.62E+01	-0.126573589	12
-1	1	6.28E+00	-0.873229802	1
0.564419276	18	3.81E-02	0.465301144	18
0.027861896	10	1.61E+00	-0.094535284	10
0.045734289	5	9.74E-01	-0.029934869	5
-0.1955654	3	1.54E+00	0.647146324	3
1	9	1.15E-02	1	9
0.297783384	87	1.31E-01	0.777080673	87
0.021629452	14	2.40E+00	0.709690506	14
0.371825421	14	2.24E-01	0.624933037	14
-0.115442222	6	1.93E+00	0.47249684	6
2	64	8.24E-20	3	64
0.541991992	17	5.11E-02	0.708275418	17
-0.64688953	16	4.46E+02	0.209979321	16
0.344735823	9	3.16E-01	0.122556168	9
0.547478327	4	2.03E-01	0.958227805	4

	3	7	2.66E-05		5	7
0.628178253		1	2.44E-01	0.501110598		1
0		1	7.61E-01	0		1
0		2	8.41E-01	0		2
0		4	1.03E+00	0		4
0		2	8.41E-01	0		2
-0.18430663		3	1.49E+00	0		3
0		1	7.61E-01	0		1
0		2	8.41E-01	0		2
0		4	1.03E+00	0		4
0		2	8.41E-01	0		2
-2		1	1.90E+01	-0.908738346		1
-1		9	6.89E+02	-0.681188037		9
-0.451977011		3	2.97E+00	0.443918942		3
0.3609271		11	2.70E-01		1	11
1		6	1.74E-02		2	6
0.224359651		61	1.17E+00	0.32533026		61
0.21475643		36	9.54E-01	0.054502924		36
0.338042329		4	3.78E-01	-0.610418958		4
0.437946808		9	2.00E-01	-0.24066361		9
0		3	9.29E-01	-0.004779637		3
-0.019599931		3	9.77E-01	-0.220231494		3
0.949819406		10	1.28E-02		2	10
0.096140766		7	9.33E-01	-0.072556841		7
0.078625545		1	6.60E-01	-0.035557437		1
-0.038469029		5	1.29E+00	0.159410256		5
-0.040346284		2	9.19E-01	-5.83E-05		2
-0.070973953		2	9.83E-01	-0.022382516		2
0.152064928		2	6.03E-01	-9.71E-05		2
-0.25051819		12	1.03E+01	-0.150785693		12
0.868659254		4	7.87E-02	-0.099460896		4
0.149629114		9	8.16E-01	0.108911799		9
0.929132209		12	8.54E-03		2	12
-0.255108595		23	9.23E+01	0.015085182		23
-0.102252726		6	1.83E+00	0.255420419		6
0.026759783		3	8.67E-01	0.553376236		3
-0.581497122		8	2.07E+01	-0.33274949		8
-0.011259616		6	1.31E+00	-0.670714343		6
1		3	3.45E-02		1	3
3		3	3.62E-04		3	3
2		12	9.75E-07		3	12
0.810915932		12	1.74E-02		2	12
0.397615398		5	3.01E-01		2	5
-0.051868327		21	9.11E+00	-0.112910438		21
1		9	3.53E-03		2	9
1		6	2.49E-02	0.240758422		6
-0.890910953		6	3.45E+01		1	6

0.025542405	8	1.36E+00	-1	8
0.037628939	9	1.41E+00	0.364125341	9
-0.248029559	3	1.76E+00	-0.000300607	3
0.150024725	7	7.48E-01	0.420539521	7
0.659518863	49	1.54E-04	0.823111234	49
-0.505219091	7	1.10E+01	1	7
-0.142996447	4	1.57E+00	0.056418493	4
-1	1	5.41E+00	0.625508034	1
-0.687816754	22	5.34E+03	0.441433281	22
0.716509248	4	1.23E-01	0.409661509	4
1	10	8.24E-03	2	10
0.050525978	1	6.95E-01	0.038431984	1
0.279673373	7	4.39E-01	-0.055999805	7
-0.008781211	4	1.05E+00	0.270467041	4
0.200571222	2	5.42E-01	0.717484912	2
0.932420311	20	1.07E-03	0.968253292	20
0.493583654	10	1.40E-01	0.577959155	10
0.099089833	5	8.15E-01	0.169598477	5
1	10	5.89E-03	0.367356224	10
0.059568613	8	1.17E+00	-0.140429988	8
-0.10495205	3	1.22E+00	0.284725919	3
0.346044214	3	3.81E-01	-0.395646944	3
0.349018976	1	4.05E-01	-0.463067699	1
-0.765414416	2	4.50E+00	-1	2
-0.11721583	1	9.41E-01	-0.102175039	1
-0.684347705	3	5.41E+00	0	3
-1	4	2.70E+01	0.880547953	4
0.091641317	4	7.83E-01	0.029392783	4
-0.421720556	17	1.06E+02	-0.389360057	17
1	8	1.62E-02	2	8
-0.95312819	4	1.72E+01	-2	4
-0.349244588	6	4.59E+00	-0.192963035	6
-0.056564117	1	8.44E-01	0	1
-0.420102859	2	2.11E+00	-0.315573388	2
-0.569366138	15	1.81E+02	-0.37363141	15
0.233085824	11	5.55E-01	0.25290601	11
-0.615981869	6	1.24E+01	-0.469260184	6
-0.298895708	5	3.08E+00	-0.323853863	5
-0.357637317	6	4.74E+00	-0.369068081	6
-0.27436858	10	7.88E+00	0.35966167	10
-0.254804801	10	7.11E+00	-0.692311895	10
-0.884657154	17	4.15E+03	-0.402178153	17
-0.009691693	11	2.18E+00	0.6565088	11
0.581886424	2	2.35E-01	2	2
-0.435832872	3	2.85E+00	-1	3
-0.012480114	2	8.65E-01	-0.020772199	2
-0.297965985	6	3.80E+00	0.175125841	6

-0.033910874	5	1.27E+00	0.223944505	5
-0.402358795	4	3.37E+00	-0.504096503	4
0.131583756	2	6.30E-01	0.186704172	2
0	3	9.29E-01	-0.061843037	3
-0.2160139	7	3.36E+00	0.702476953	7
0.327794856	10	3.34E-01	0.517739973	10
2	2	1.52E-02	1	2
2	6	1.49E-03	2	6
-0.193812379	11	6.14E+00	2	11
3	6	2.73E-05	4	6
4	3	2.95E-05	4	3
0.197211494	26	9.77E-01	0.757608853	26
0.818168297	2	1.40E-01	-0.067465774	2
-0.749775567	4	9.42E+00	0.47960429	4
-0.44654651	7	8.64E+00	-0.063116536	7
0	4	1.03E+00	0	4
0	2	8.41E-01	0	2
0	4	1.03E+00	0	4
0	3	9.29E-01	0	3
0	1	7.61E-01	0	1
0.086729048	9	1.11E+00	-0.000261025	9
-0.545011845	6	9.52E+00	-0.863613106	6
-0.790109055	5	1.59E+01	-0.957524854	5
0.293987901	3	4.36E-01	-0.529791835	3
-0.570553987	5	7.62E+00	-0.072667821	5
-0.095791066	7	2.05E+00	-0.36094272	7
-0.364382359	5	3.83E+00	0.27261995	5
-0.003867394	3	9.39E-01	-0.119049789	3
-0.277763297	5	2.87E+00	-0.716037341	5
-0.180360222	8	3.43E+00	-0.262938939	8
-0.041642702	11	2.61E+00	-0.21833834	11
-2	8	4.19E+03	-2	8
-0.709747282	4	8.37E+00	-0.482717955	4
-0.647051492	2	3.47E+00	-0.601061858	2
-0.990953989	9	2.10E+02	-1	9
-0.860017377	5	2.00E+01	-0.935934696	5
-0.878855788	3	8.93E+00	-0.395214657	3
-0.699483174	5	1.17E+01	-0.091099041	5
-0.098641385	4	1.37E+00	0.04652002	4
-0.865024406	6	3.13E+01	-0.229703313	6
-0.288758563	7	4.53E+00	2	7
-0.01625654	3	9.69E-01	-0.295929686	3
-0.128483864	5	1.74E+00	0	5
-0.427408563	6	6.14E+00	-0.285297087	6
-0.541440832	7	1.28E+01	-0.484453923	7
-0.132613778	4	1.52E+00	-1.72E-05	4
-0.262389879	7	4.06E+00	-1	7

-0.344294763	10	1.14E+01	-0.50971622	10
-0.022562435	5	1.22E+00	-0.016334901	5
0.257160103	8	4.83E-01	0.355315257	8
0.352421986	7	3.26E-01	0.366415199	7
-0.105354195	4	1.40E+00	-1	4
-0.639457555	4	6.80E+00	0.388231701	4
-0.063921869	4	1.24E+00	-0.439548376	4
0.042722177	3	8.33E-01	0	3
-0.666857881	6	1.50E+01	-1	6
-0.021469349	3	9.82E-01	0.070364604	3
0.207077699	11	6.42E-01	-0.009344219	11
0	5	1.13E+00	-0.02075626	5
-0.623693792	7	1.79E+01	-0.689461884	7
-0.337750405	4	2.79E+00	0	4
-0.191753416	8	3.61E+00	0	8
-0.216506325	3	1.62E+00	0	3
-1	13	2.00E+03	-0.650356213	13
-0.344655132	4	2.84E+00	-0.550494624	4
-0.502227177	5	6.06E+00	-1	5
-0.878131697	10	1.87E+02	-0.529429795	10
-2	6	1.20E+03	-2	6
-0.557115911	6	9.96E+00	-0.227247265	6
0	2	8.41E-01	0.046828185	2
-0.754618974	4	9.55E+00	-0.857686856	4
-0.093473708	8	2.33E+00	-0.201472598	8
-0.477725406	10	2.29E+01	-0.50711352	10
-0.86008041	4	1.31E+01	-0.827515955	4
-0.055651671	3	1.07E+00	-0.185833641	3
-0.188349269	3	1.51E+00	-0.598401657	3
0.247042065	5	4.97E-01	-0.675647699	5
-0.473115099	8	1.28E+01	-0.036735495	8
-1	11	9.31E+03	-0.274656281	11
-0.015783195	1	7.84E-01	-0.051107568	1
-0.070982439	10	2.71E+00	-0.301769497	10
0.540596285	10	1.09E-01	0.744098124	10
-0.193179948	8	3.64E+00	0.397801588	8
-0.054087056	3	1.07E+00	0.000420019	3
0	2	8.41E-01	0	2
-0.014824288	2	8.69E-01	-0.024641092	2
-0.852526994	14	8.98E+02	-0.710836493	14
-0.159311933	3	1.40E+00	-0.02776612	3
-0.070648494	15	5.09E+00	-0.339016134	15
0.05982624	3	7.97E-01	-0.484353858	3
-0.28422228	5	2.93E+00	0	5
-1	8	5.95E+02	0	8
-0.505600917	4	4.58E+00	-0.302271162	4
0.268172989	9	4.58E-01	-0.703734762	9

0.824753993	9	3.05E-02	1	9
0.784712163	3	1.23E-01	0.368377096	3
0.337485703	13	2.91E-01	0.561282974	13
-0.498843492	2	2.51E+00	-2	2
0.246364964	3	4.93E-01	-1	3
-0.952908312	5	2.73E+01	-1	5
-0.042312398	4	1.16E+00	0.065684616	4
0.340310969	3	3.87E-01	0.525520207	3
0.021135361	1	7.33E-01	0.035508714	1
-0.091213346	5	1.54E+00	0.003607234	5
0.01966053	3	8.83E-01	0	3
-0.031937356	24	1.06E+01	0.015589759	24
0.006000184	3	9.15E-01	0.009948537	3
0.909385655	20	1.32E-03	0.946921509	20
-0.030608107	8	1.75E+00	-0.006211003	8
-0.087807174	3	1.16E+00	0.003991179	3
1	7	1.21E-02	1	7
-0.061401969	4	1.23E+00	-0.02747238	4
0.041218537	6	1.07E+00	-0.122390108	6
-0.47725389	4	4.21E+00	0	4
-0.116767341	4	1.45E+00	0.032880855	4
1	73	1.24E-12	1	73
3	3	3.84E-04	3	3
0.569429524	24	1.80E-02	0.712671841	24
0.086016104	4	7.96E-01	0.031458808	4
0.139242036	5	7.13E-01	-0.035987344	5
0.234706722	13	5.61E-01	0.209807336	13
-0.0200748	3	9.79E-01	1	3
-0.396302832	3	2.58E+00	-0.254793882	3
0.211908414	21	7.53E-01	0.381300741	21
0.651714458	6	1.11E-01	1	6
0.8946257	27	2.78E-04	1	27
-0.154258515	13	6.75E+00	-0.79545919	13
-0.530310936	2	2.69E+00	-0.326825715	2
-0.697148371	8	3.48E+01	-0.274769818	8
-0.323528311	19	7.60E+01	0.290105319	19
1	6	1.25E-02	1	6
0.858637248	8	3.25E-02	0.285855562	8
0.109168978	1	6.25E-01	-0.054182668	1
-0.186970535	15	1.17E+01	-0.183089152	15
-0.229810941	3	1.68E+00	-1	3
0.016039998	1	7.40E-01	-0.026558041	1
0.153546532	7	7.37E-01	0.976398456	7
-0.00783017	6	1.29E+00	0.142836181	6
0.165057	21	1.17E+00	0.268850625	21
-0.667829913	10	6.21E+01	0.085524024	10
-0.783242396	4	1.04E+01	-0.39894386	4

-0.991322264	9	2.10E+02	-0.477500743	9
0.002543831	4	1.02E+00	-0.094748407	4
-0.160285356	6	2.27E+00	-0.214348931	6
0.124999837	4	7.09E-01	-0.000446351	4
-0.236515367	4	2.07E+00	0.142914256	4
-0.237305223	3	1.71E+00	0.722417257	3
0.278729105	4	4.50E-01	0.685349738	4
1	3	1.96E-02	1	3
0.263624289	5	4.70E-01	0.285144073	5
0.273332481	42	3.81E-01	0.589956614	42
0.694740909	2	1.83E-01	-0.671649339	2
-0.811741439	8	5.83E+01	-1	8
-0.008338464	6	1.29E+00	-0.322259799	6
-0.023745255	4	1.10E+00	0.00849272	4
0.276351956	11	4.35E-01	0.574389729	11
0.420390307	7	2.47E-01	0.777882223	7
-0.089292865	5	1.53E+00	0.46386543	5
0.034704319	3	8.50E-01	0.551801023	3
0.941560609	6	3.77E-02	1	6
-0.255322412	3	1.79E+00	0.099422389	3
-0.161173848	7	2.68E+00	0.311822806	7
1	6	1.12E-02	0.279089005	6
-0.058843784	11	2.87E+00	0.12645661	11
-0.861742264	5	2.01E+01	0.128677498	5
-0.559515148	5	7.34E+00	-0.586324418	5
-0.463952337	9	1.62E+01	-0.182433206	9
0	4	1.03E+00	0	4
-0.165013116	3	1.42E+00	-0.000121555	3
-0.008724186	5	1.17E+00	0	5
-0.476649239	4	4.20E+00	-0.192329374	4
-0.006445635	6	1.28E+00	-0.435791156	6
-0.144030087	5	1.83E+00	1	5
0.359778316	7	3.16E-01	0.351158265	7
-0.304972372	8	6.00E+00	-0.710934808	8
-0.541092614	16	2.01E+02	-2	16
-0.973452366	9	1.93E+02	-0.632208825	9
-0.803863556	9	8.45E+01	-2	9
0.021414685	5	1.06E+00	-0.174467535	5
0	6	1.25E+00	0	6
0	3	9.29E-01	0	3
0	6	1.25E+00	0	6
0.259674231	9	4.77E-01	-0.310858074	9
0.052269731	8	1.21E+00	-0.313531702	8
0.233429421	17	5.90E-01	0.535809043	17
0.199805674	3	5.56E-01	-0.097067854	3
-0.026672794	1	7.99E-01	-0.044311531	1
-0.010286958	19	5.00E+00	0.228681494	19

-0.035362256	7	1.60E+00	0.358237823	7
-0.914095001	6	3.76E+01	0.342653017	6
0.518034716	5	2.01E-01	0.589276416	5
0.067254954	1	6.74E-01	0.058704763	1
0.253738509	6	4.87E-01	0.116949869	6
-0.297221724	6	3.79E+00	-0.601249755	6
-0.144256935	5	1.84E+00	-0.043631545	5
-1	5	6.29E+01	-0.772158959	5
-0.532986612	2	2.71E+00	0	2
0.048572751	6	1.05E+00	-0.384846491	6
-2	10	1.15E+05	-0.755449033	10
-3	3	6.45E+02	-0.964301294	3
-0.117391009	7	2.24E+00	-0.178484929	7
-0.264444181	9	6.12E+00	-0.594013384	9
-0.496008814	3	3.33E+00	-0.569248192	3
0.332284075	5	3.74E-01	-0.949148076	5
0.370531055	5	3.29E-01	0.549263328	5
0.020328163	1	7.34E-01	0.034159033	1
-0.041234646	2	9.21E-01	0.007521255	2
0.446342196	4	2.74E-01	-0.577187803	4
0	2	8.41E-01	-0.119108464	2
0.615872719	5	1.45E-01	-0.272730508	5
0.4310984	3	3.06E-01	-0.049148775	3
0	4	1.03E+00	-0.000509167	4
-0.254404333	3	1.79E+00	-0.183271616	3
-0.28053675	4	2.35E+00	0	4
-0.397040662	5	4.27E+00	-0.239770962	5
-0.158852039	4	1.64E+00	0	4
-0.244720844	3	1.74E+00	-0.205242759	3
-0.013242185	4	1.07E+00	-0.320853423	4
-0.377109329	3	2.45E+00	-0.058158422	3
0.224475156	4	5.29E-01	-0.039354017	4
-0.129681274	9	3.18E+00	-0.50216144	9
0.490446946	4	2.41E-01	0.312042212	4
2	4	9.35E-03	2	4
2	9	4.30E-05	4	9
1	12	3.05E-03	1	12
0.358583252	10	2.84E-01	-0.420260828	10
-0.298054797	3	2.00E+00	0.239146189	3
0.70322138	7	7.73E-02	1	7
0.014889644	2	8.14E-01	0.024992178	2
0.195473936	2	5.48E-01	0.316428838	2
1	8	1.36E-02	2	8
-0.268405743	4	2.27E+00	-0.386563368	4
-0.442566507	6	6.50E+00	-0.301491852	6
-0.633516063	6	1.32E+01	-0.62498593	6
-1	6	1.18E+02	-0.653760511	6

-0.029606226	1	8.03E-01	-0.024785345	1
0.003888418	4	1.01E+00	-0.33451687	4
0.036883725	3	8.45E-01	-0.057811256	3
-0.617352375	8	2.44E+01	-0.999219071	8
-1	5	3.91E+01	0.435117894	5
-0.307646702	6	3.94E+00	0.313720646	6
0.071712878	3	7.73E-01	0.012202846	3
0.138039587	8	8.23E-01	-0.225647437	8
-0.374305329	8	8.19E+00	-0.328188789	8
-0.965199316	6	4.54E+01	-1	6
-0.717225776	9	5.54E+01	-0.992236916	9
-0.4474826	5	5.05E+00	-0.657762573	5
0	3	9.29E-01	0	3
0	2	8.41E-01	0	2
0	3	9.29E-01	0	3
0	3	9.29E-01	0	3
-0.378046561	4	3.14E+00	-0.625259473	4
-0.295693597	9	7.12E+00	-2	9
-0.37931958	7	6.56E+00	-0.775277919	7
-0.082718746	6	1.70E+00	-1	6
-0.395625697	4	3.31E+00	-0.067215188	4
-0.432168965	8	1.06E+01	-0.861630306	8
0.282246964	5	4.42E-01	0.555625522	5
-0.067529063	3	1.11E+00	-0.007015388	3
0.454005925	8	2.00E-01	-0.289781156	8
-0.42326575	7	7.86E+00	-0.147807618	7
-0.762489311	17	1.58E+03	-0.359340678	17
-0.471130622	3	3.12E+00	0	3
-0.541892441	11	4.36E+01	-0.771490637	11
0	2	8.41E-01	0	2
0	3	9.29E-01	0	3
0.573762752	7	1.32E-01	0.839018172	7
0.619943763	5	1.43E-01	0.278628596	5
0.098851752	8	9.82E-01	0.278013869	8
-0.173702882	5	2.03E+00	-0.022310557	5
-0.750832513	7	3.01E+01	-0.52384683	7
-0.030153275	9	1.96E+00	0.986303585	9
0.083513158	2	7.00E-01	0.024322663	2
0.435745885	7	2.32E-01	2	7
0.462458005	17	9.61E-02	2	17
0.016784955	14	2.48E+00	-0.359994561	14
-1	17	8.44E+04	-0.326343438	17
-1	9	3.32E+02	-1	9
-1	2	1.32E+01	-0.604770239	2
0.555766553	2	2.49E-01	0.481478606	2
0.138866983	2	6.20E-01	0.36774876	2
-0.712141485	1	2.76E+00	0.167773055	1

-0.303411143	7	4.81E+00	-0.008490118	7
-0.047298075	3	1.05E+00	-0.452181978	3
-0.129326499	2	1.12E+00	-0.000104106	2
-0.230996001	7	3.57E+00	0	7
-0.016473359	6	1.33E+00	-0.625504979	6
-0.521401806	3	3.56E+00	-0.58988282	3
-0.022968784	3	9.86E-01	-0.264961798	3
-0.268928288	6	3.41E+00	0.577857102	6
-0.023831705	3	9.88E-01	-0.460564164	3
-0.38503025	6	5.25E+00	0.364183531	6
-0.065779556	1	8.58E-01	-0.000209587	1
-0.235720469	9	5.32E+00	-0.771995983	9
-0.096595592	5	1.57E+00	-0.016371129	5
-0.677908741	3	5.32E+00	0.326914261	3
-0.454321762	4	3.93E+00	-0.283477488	4
-0.144663646	3	1.35E+00	-0.120738655	3
-1	4	6.40E+01	-2	4
0.09466753	9	1.07E+00	0.487443037	9
-0.445230782	9	1.47E+01	0.332174903	9
-0.012232707	5	1.18E+00	0	5
-0.849043027	10	1.61E+02	-1	10
-0.248684923	4	2.14E+00	0.414146327	4
0.001629054	3	9.25E-01	0.171007075	3
-0.632544017	4	6.66E+00	-0.14435708	4
2	4	1.15E-02	0.813258658	4
0.270485007	9	4.53E-01	0.456881794	9
0.235073079	4	5.12E-01	0.576481653	4
0.005671666	4	1.01E+00	0.010817492	4
-4.04E-06	4	1.03E+00	0.393115653	4
-0.364198658	11	1.60E+01	-0.421858702	11
0	1	7.61E-01	0	1
0	1	7.61E-01	0	1
0.025727818	2	7.95E-01	-0.038753102	2
0.183234915	3	5.80E-01	0	3
0.016313047	13	2.27E+00	0.057104051	13
-0.013109147	5	1.18E+00	-0.131347591	5
-0.321746363	2	1.70E+00	0	2
-0.603221619	5	8.50E+00	-0.685093363	5
0.13589644	2	6.24E-01	-0.046958165	2
0.00884406	1	7.49E-01	0	1
0.00526147	3	9.17E-01	-0.021638426	3
-0.379740452	4	3.15E+00	-0.227856203	4
-0.157393636	2	1.19E+00	0	2
0.296054714	3	4.34E-01	0.012728708	3
-0.34216399	2	1.78E+00	-0.719812934	2
-0.194563303	9	4.35E+00	-0.575470275	9
0	3	9.29E-01	0	3

0	3	9.29E-01	0	3
-0.022458327	2	8.84E-01	0	2
-0.390845647	6	5.36E+00	-0.016865007	6
0.088639076	4	7.90E-01	-0.005816564	4
-0.531097837	4	4.93E+00	-0.959504667	4
-0.20355342	7	3.19E+00	-0.145596901	7
-0.594801179	8	2.20E+01	-1	8
-0.28137554	5	2.90E+00	-0.309425658	5
0.073848176	2	7.15E-01	0	2
-0.468422474	7	9.46E+00	-0.566582605	7
-0.259299368	5	2.70E+00	0.243733811	5
-0.211785316	7	3.30E+00	-0.290875114	7
-0.690031159	5	1.14E+01	0.370748164	5
-0.174634922	5	2.03E+00	-0.04737362	5
-0.480270064	5	5.64E+00	-0.699018273	5
-0.138878965	7	2.45E+00	-0.202011881	7
-0.194496803	6	2.58E+00	-0.605324983	6
-0.273347087	5	2.82E+00	-0.513253042	5
-0.550262667	9	2.46E+01	-0.445772237	9
0.124431249	2	6.40E-01	0.415577917	2
-0.634868247	8	2.64E+01	1	8
-0.017836542	1	7.86E-01	0.028400328	1
-0.01407472	2	8.68E-01	-0.076670265	2
-0.001545933	3	9.33E-01	-0.173371849	3
-0.770078967	13	3.46E+02	1	13
-0.107998403	3	1.23E+00	0.094452703	3
0	3	9.29E-01	0.451750639	3
-0.30825005	21	1.03E+02	0.162123911	21
-0.288508169	9	6.88E+00	-0.06823477	9
-0.416250475	9	1.28E+01	-0.040277973	9
-0.541719556	9	2.36E+01	-1	9
0.121315905	2	6.45E-01	-0.99365278	2
-0.006269277	5	1.16E+00	-0.005571024	5
-0.219381834	3	1.63E+00	0.05093249	3
-0.091276126	3	1.18E+00	0.111863548	3
-0.364908944	12	2.04E+01	-0.103645711	12
-0.661334027	8	2.97E+01	0.208072338	8
-0.005456512	5	1.15E+00	0	5
-0.159623485	6	2.27E+00	0.045847888	6
0.222553528	6	5.47E-01	0.244961309	6
-0.76888794	10	1.06E+02	-0.350259893	10
-0.127046052	4	1.49E+00	-1	4
-0.176460579	3	1.46E+00	-0.307133347	3
-0.070104615	2	9.81E-01	-0.060040193	2
-0.639785622	4	6.80E+00	-1	4
-0.107156423	18	1.01E+01	-0.483886834	18
-0.277083034	12	1.21E+01	-0.414705078	12

-0.355269609	16	4.94E+01	-0.229619345	16
-0.862533824	10	1.73E+02	-0.78659027	10
-0.077122211	2	9.96E-01	0	2
-0.975882959	4	1.84E+01	-0.835430327	4
-0.024130197	2	8.87E-01	0	2
-0.248242878	4	2.14E+00	0	4
0	3	9.29E-01	0	3
0.112086227	8	9.25E-01	0.383741769	8
-0.107780637	7	2.15E+00	0.953642494	7
-0.412830804	7	7.53E+00	0.296070533	7
0.129678146	16	1.28E+00	0.485415003	16
0.790267356	17	7.15E-03	0.483933552	17
-0.352942643	4	2.91E+00	0.009096699	4
-0.102093357	13	4.83E+00	-0.424027063	13
0.152630746	4	6.54E-01	0.067133948	4
0.117457445	10	1.01E+00	0.112615692	10
-0.39795071	7	7.08E+00	-0.763811831	7
-0.943668584	7	6.64E+01	-0.309934164	7
-0.291651707	4	2.43E+00	0.418135618	4
0	6	1.25E+00	0	6
-0.083250473	6	1.71E+00	-0.024023915	6
-0.005201039	11	2.12E+00	-0.520762759	11
-0.861520654	16	2.25E+03	-0.181324002	16
-0.299588633	8	5.86E+00	-0.312932443	8
-0.001768133	4	1.03E+00	0	4
-0.114892542	2	1.08E+00	-0.039356264	2
-0.47850129	13	5.37E+01	-0.674704471	13
-0.020147111	2	8.79E-01	0	2
-0.439776593	10	1.88E+01	-0.812759923	10
-1	24	8.91E+05	-0.375020705	24
-0.482451323	5	5.68E+00	-0.529342732	5
-0.066755367	5	1.42E+00	-0.355814063	5
0.07570627	4	8.21E-01	-0.048917916	4
-0.62927888	4	6.60E+00	0.04559974	4
-1	11	6.55E+02	0.974718435	11
-0.243931706	4	2.11E+00	-0.249695064	4
-0.671700703	8	3.11E+01	-1	8
-0.548244135	5	7.07E+00	-0.031480562	5
-0.497117663	3	3.34E+00	-0.298602761	3
0	3	9.29E-01	-0.374089829	3
0	2	8.41E-01	0	2
-0.063771418	5	1.40E+00	-0.009799913	5
0	4	1.03E+00	0	4
0	3	9.29E-01	-0.310402611	3
-0.005248007	4	1.04E+00	-0.929858297	4
0.393244414	2	3.55E-01	-0.626140316	2
-0.282502107	1	1.27E+00	-0.042784873	1

-1	4	3.42E+01	-0.67334918	4
-0.384410572	3	2.50E+00	0.104069194	3
-0.147167417	4	1.59E+00	-0.12962651	4
-1	5	4.09E+01	-0.367379645	5
-1	4	3.08E+01	-0.746428759	4
-0.01844768	1	7.87E-01	-0.060769621	1
0.135228174	14	1.11E+00	0.695384829	14
0.249262837	2	4.87E-01	0.493531934	2
0.304265142	6	4.04E-01	0.210673026	6
0.98589807	8	1.84E-02	-0.040533733	8
-0.841937587	21	1.59E+04	-0.629871897	21
-0.599117209	12	8.35E+01	-0.164516345	12
-0.703550858	5	1.19E+01	-0.836243907	5
-0.561163687	7	1.38E+01	-0.47311786	7
-0.917424924	6	3.80E+01	0.072050131	6
-0.836851706	9	9.92E+01	-1	9
-0.145189432	2	1.16E+00	-0.595376402	2
0	3	9.29E-01	-0.00765381	3
0.06683875	17	2.21E+00	-0.122307408	17
-1	9	2.31E+02	-0.549634251	9
-0.180707023	45	1.76E+03	-0.141145455	45
0.176990823	5	6.28E-01	-0.053687596	5
-0.246336406	4	2.13E+00	-0.000347303	4
-0.599410231	6	1.17E+01	-0.242034112	6
-0.414820957	9	1.27E+01	0.337429637	9
0.230310749	6	5.32E-01	-0.24661772	6
-0.004719335	6	1.28E+00	-0.604722209	6
-0.296947939	4	2.47E+00	0.03283892	4
-0.210713677	4	1.91E+00	0.311225293	4
2	9	1.88E-04	2	9
0.011451537	6	1.20E+00	-0.080155365	6
0.044907596	9	1.36E+00	0.514036159	9
-0.006442538	4	1.05E+00	0	4
-0.354341074	4	2.93E+00	-0.558752394	4
-0.524694435	1	1.97E+00	0.187050931	1
-0.058550674	11	2.87E+00	0.334782992	11
0.272767819	4	4.58E-01	-0.032630095	4
-0.335473336	13	2.15E+01	-0.509881354	13
-0.63426238	2	3.38E+00	-0.109717005	2
-0.704002466	13	2.27E+02	-0.351269251	13
-0.244481747	4	2.11E+00	-0.378154178	4
2	17	2.01E-05	0.983406238	17
0.018446554	4	9.72E-01	0	4
-1	4	3.17E+01	1	4
0	2	8.41E-01	0.050609714	2
0	1	7.61E-01	0.062807952	1
0.765043455	3	1.30E-01	0.809512263	3

0.030975281	1	7.20E-01	0	1
0	6	1.25E+00	0	6
0	2	8.41E-01	0	2
0	9	1.69E+00	-0.133256439	9
0.121558623	8	8.87E-01	-0.205278476	8
0	2	8.41E-01	0	2
0	6	1.25E+00	0	6
-0.485489951	4	4.31E+00	0.940845916	4
-0.095608398	6	1.79E+00	-0.745890595	6
-0.035004511	1	8.11E-01	-0.029691723	1
-0.804388551	1	3.27E+00	-1	1
0.26426398	3	4.71E-01	0.035713793	3
-0.650044888	5	9.93E+00	0.061996701	5
-0.248318605	3	1.76E+00	-0.000112943	3
-1	8	1.98E+02	-0.943398608	8
-0.670566694	4	7.45E+00	-0.753767321	4
-0.33825772	5	3.51E+00	0.002363018	5
-0.081535099	8	2.20E+00	0.025599394	8
-0.018340228	5	1.21E+00	0	5
-0.011721273	2	8.63E-01	-0.039313298	2
-0.273713963	14	1.78E+01	-0.397766232	14
-0.006360129	6	1.28E+00	-0.264998603	6
-0.011657508	1	7.78E-01	0	1
1	8	5.51E-03	2	8
0.070987202	5	8.95E-01	0.587680108	5
0.379548643	4	3.34E-01	0.371208821	4
-0.650049248	6	1.41E+01	0.227750124	6
-0.207067506	7	3.24E+00	1	7
-0.168034217	5	1.99E+00	-0.116573387	5
-0.717277135	6	1.81E+01	-0.284457492	6
-0.31392102	4	2.60E+00	-0.503206659	4
-1	9	3.09E+02	-1	9
-0.72742797	7	2.74E+01	-0.287133376	7
-0.321666927	9	8.08E+00	-0.003342859	9
-0.649399192	8	2.81E+01	-0.308036018	8
0.908636424	139	2.14E-16	1	139
0.061572789	14	1.83E+00	-0.480424103	14
0.581241874	10	8.83E-02	2	10
0.307863461	16	3.33E-01	0.668191618	16
-0.024648064	36	3.62E+01	0.085742244	36
-0.224003522	15	1.53E+01	-0.462066793	15
0.019429354	2	8.06E-01	0	2
0.317230783	7	3.77E-01	0.166136324	7
-0.035434856	2	9.09E-01	0	2
-0.534086377	10	3.08E+01	0.016043401	10
-0.330308854	19	8.06E+01	0.197638187	19
-0.269614403	9	6.27E+00	-0.080716078	9

-0.316024593	4	2.61E+00	-0.477266733	4
-0.89045959	7	5.34E+01	-0.098167472	7
-0.312013354	6	4.00E+00	0.175726859	6
-0.461871055	8	1.21E+01	0.179695084	8
-0.483130459	7	1.00E+01	-0.000188655	7
-0.492911725	9	1.86E+01	-0.403820597	9
-0.180547001	8	3.44E+00	-0.145338948	8
-0.606285407	8	2.32E+01	-1	8
-0.816401987	8	5.95E+01	-0.685027701	8
0.146614212	7	7.59E-01	-0.467654611	7
0	7	1.38E+00	-0.107668006	7
-0.351755644	6	4.64E+00	-0.491038497	6
-0.615178423	9	3.37E+01	-0.378070282	9
-0.834831075	4	1.21E+01	-1	4
-0.171113034	5	2.01E+00	-0.779455589	5
-0.094715819	2	1.04E+00	0	2
-0.176168176	8	3.37E+00	0.453258012	8
-1	3	2.55E+01	0.2700104	3
-0.042442932	1	8.22E-01	0.070164413	1
-0.042442932	1	8.22E-01	0.070164413	1
-1	2	8.33E+00	-0.607327624	2
-0.218961692	3	1.63E+00	0.974883629	3
0.301000544	6	4.09E-01	-0.051051678	6
0.204037684	2	5.38E-01	-0.2817297	2
0	2	8.41E-01	-0.149318892	2
-0.3269537	12	1.63E+01	-0.335536551	12
-0.535040081	8	1.68E+01	-0.247913287	8
-0.081233229	5	1.49E+00	0	5
0.220970189	15	6.31E-01	0.250967162	15
-0.00083676	2	8.43E-01	0	2
-0.353089806	7	5.89E+00	-0.416200091	7
-0.015296045	5	1.19E+00	0	5
0	4	1.03E+00	0	4
-0.338555628	2	1.77E+00	-0.119044462	2
0.007092394	4	1.01E+00	0.634242102	4
0.391092325	3	3.40E-01	0	3
-0.487257195	2	2.45E+00	-0.08899674	2
-1	14	2.76E+03	-0.423189935	14
-0.467267892	4	4.09E+00	-0.033822206	4
-1	6	6.55E+01	-0.619993306	6
-0.073884499	11	3.13E+00	0.131966021	11
0.373798502	9	2.74E-01	0.26020702	9
0.192158304	7	6.29E-01	-0.740842481	7
-2	10	2.97E+04	-2	10
-0.568384917	3	4.01E+00	0.056140517	3
-1	5	8.34E+01	-0.74814576	5
-0.919583498	4	1.56E+01	-0.583422847	4

-0.090457627	5	1.53E+00	0.012144904	5
-1	8	1.51E+02	-0.57982464	8
-0.668841327	9	4.38E+01	0.232276974	9
0.457031823	6	2.29E-01	0.768905201	6
0.37004904	5	3.30E-01	0.792832886	5
-0.209527494	3	1.59E+00	-0.46267638	3
0	2	8.41E-01	-0.06663355	2
0	5	1.13E+00	-0.809096959	5
-0.014579285	2	8.69E-01	-0.643844474	2
0	6	1.25E+00	0	6
0	1	7.61E-01	0	1
-0.259288978	3	1.81E+00	0	3
-0.070060032	1	8.64E-01	0	1
-0.407335463	9	1.23E+01	-0.449935332	9
-0.023221573	1	7.94E-01	0	1
0.012924215	1	7.44E-01	0	1
-0.697026752	10	7.24E+01	-1	10
-0.592022944	35	1.44E+05	-0.720589403	35
-0.771103422	9	7.20E+01	-1	9
-1	12	1.86E+03	-1	12
-0.476937725	7	9.79E+00	-0.130785494	7
-2	5	2.55E+02	-0.76662662	5
-0.06785234	1	8.61E-01	-0.111689483	1
0.626437227	6	1.22E-01	0.707190726	6
-0.825698986	6	2.70E+01	-0.294661506	6
-0.003687971	2	8.48E-01	-0.01218299	2
-0.160424527	4	1.65E+00	-0.352344345	4
-0.211769785	20	3.45E+01	0.236950956	20
-0.144037929	4	1.57E+00	-0.399189348	4
-0.065476788	5	1.41E+00	-1	5
-0.734425585	4	9.00E+00	0	4
0.365619419	4	3.48E-01	-0.632729104	4
-0.50903043	3	3.45E+00	-0.041857394	3
-0.910120402	6	3.70E+01	-0.355560834	6
-0.324615767	5	3.35E+00	0	5
-0.524939588	4	4.85E+00	0	4
0.091162616	4	7.84E-01	-0.254060618	4
-0.502615015	9	1.95E+01	-1	9
-0.519867855	12	5.19E+01	-0.124944803	12
-0.272411177	9	6.36E+00	-0.249752992	9
0	4	1.03E+00	0	4
-0.142546151	4	1.56E+00	0	4
-0.410916859	4	3.46E+00	-0.059210629	4
-0.127593222	3	1.29E+00	-0.292728309	3
-0.427668067	5	4.73E+00	-0.775192591	5
0.019479184	2	8.06E-01	0.511573192	2
0.085616748	5	8.52E-01	-0.573400662	5

-0.075816673	2	9.93E-01	-0.118626997	2
-0.091278131	4	1.34E+00	-0.00519728	4
0.064216552	3	7.88E-01	-0.120144252	3
-1	16	3.90E+04	-0.735128599	16
-0.397069198	4	3.32E+00	-0.039348518	4
0	2	8.41E-01	-0.227403444	2
0	1	7.61E-01	0	1
0	2	8.41E-01	0	2
-0.336377413	3	2.21E+00	-0.035896936	3
-0.619998013	5	8.99E+00	0.121132181	5
-0.016396366	2	8.72E-01	-0.027272209	2
-0.958457777	5	2.78E+01	-1	5
-0.292038766	5	3.01E+00	0.07222905	5
0.277357086	4	4.52E-01	-0.303916034	4
-0.982572319	4	1.87E+01	-0.779228836	4
0	2	8.41E-01	-0.299415501	2
-0.093601715	6	1.77E+00	-0.417313251	6
0.526729367	5	1.95E-01	-0.100665593	5
0.13776708	2	6.22E-01	0.127508165	2
-0.318550279	7	5.11E+00	-0.438891662	7
0.708299908	6	8.99E-02	0.735985428	6
-0.084634542	4	1.32E+00	-0.192043218	4
0.015990852	4	9.79E-01	-0.179611164	4
-0.019076906	2	8.77E-01	0	2
0	2	8.41E-01	0	2
-0.134957242	7	2.41E+00	0	7
-0.002331234	3	9.35E-01	-0.007579009	3
0	1	7.61E-01	0.132035951	1
0.131882872	9	8.89E-01	2	9
-0.008338443	4	1.05E+00	0.296814938	4
0.325621595	11	3.30E-01	0.096178304	11
-0.665365246	9	4.30E+01	-0.759911828	9
-0.273962168	8	5.22E+00	0.140733097	8
-0.57605581	15	1.90E+02	-0.682949074	15
-0.172810189	17	1.47E+01	-0.08202835	17
-0.274512754	11	9.67E+00	-0.268078482	11
0.052268946	1	6.93E-01	-6.05E-05	1
-0.112042175	6	1.90E+00	-0.309906376	6
-0.019948241	7	1.50E+00	-0.28483229	7
-0.063532432	21	1.02E+01	-0.004348628	21
-0.114854045	27	3.91E+01	0.027346165	27
-0.150630514	9	3.52E+00	-0.246942062	9
-0.279327557	5	2.88E+00	-0.428205338	5
-0.126433557	7	2.33E+00	-0.119818632	7
-0.989607308	8	1.29E+02	-0.265393568	8
-0.831457748	7	4.19E+01	-0.758421335	7
-1	5	6.37E+01	-0.361772991	5

-0.178223894	2	1.24E+00	0.215305131	2
-0.253877767	4	2.17E+00	-0.221342679	4
-0.026118919	2	8.91E-01	0	2
-0.376020119	4	3.12E+00	0	4
-0.018468255	4	1.08E+00	-0.281370157	4
-1	10	4.06E+02	-0.083534305	10
0	4	1.03E+00	-0.468018672	4
-0.011815662	3	9.58E-01	-0.229506844	3
-0.643997193	8	2.75E+01	-0.624238113	8
-0.239776518	5	2.53E+00	-2	5
-0.470122351	5	5.45E+00	0.055746077	5
-0.161677915	2	1.20E+00	0	2
-0.320808515	5	3.31E+00	0	5
0	2	8.41E-01	0	2
0.158212377	5	6.69E-01	-1	5
-0.869028914	3	8.70E+00	-0.6562257	3
-0.1789878	4	1.74E+00	-0.234498722	4
-0.328666593	5	3.40E+00	-1	5
0.139415991	7	7.81E-01	0.374845174	7
0.062366683	6	9.93E-01	-0.861196235	6
-0.361528678	34	3.74E+03	-0.05334378	34
-0.125311978	3	1.28E+00	0	3
-0.958197289	2	6.87E+00	-0.690044217	2
-0.645836213	2	3.47E+00	-0.51804289	2
0.358347403	1	3.98E-01	-0.226671962	1
0.245140156	13	5.25E-01	0.897931708	13
0	4	1.03E+00	0.548404076	4
-0.493483609	9	1.86E+01	0.440100533	9
0.819596797	11	2.04E-02	0.73957712	11
0.105299653	12	1.21E+00	0.251600935	12
-0.415619906	11	2.14E+01	-0.404698911	11
0.232393397	10	5.51E-01	-0.002695267	10
-0.214120581	14	1.19E+01	0.03090991	14
-0.366893669	6	4.91E+00	-1	6
-0.270332022	24	1.32E+02	0.325605619	24
-1	9	5.06E+02	-6.93E-05	9
-1	4	6.17E+01	-2	4
-0.245668648	3	1.75E+00	-0.379074751	3
-0.330204333	3	2.17E+00	-0.421953017	3
0.503320761	2	2.79E-01	0.03364399	2
-1	2	8.82E+00	-0.567396438	2
-0.070060032	1	8.64E-01	-0.029691723	1
0	7	1.38E+00	-0.192857977	7
-0.674835443	6	1.54E+01	-0.829993639	6
-0.382813362	10	1.39E+01	-0.476803393	10
0	4	1.03E+00	0	4
-0.172754737	32	1.77E+02	0.180272785	32

-0.174643557	6	2.40E+00	-0.44333031	6
0.904509475	9	2.07E-02	1	9
-0.097854775	4	1.37E+00	0.041547086	4
-0.38340141	4	3.19E+00	-0.530057162	4
-0.220592084	8	4.11E+00	0.185836682	8
0.055940339	4	8.70E-01	0.141054024	4
0.080305012	7	9.96E-01	-0.026526489	7
-0.693910282	18	1.32E+03	-0.428616179	18
-0.756876911	6	2.09E+01	-0.731892713	6
0.182574341	4	5.98E-01	-1	4
0.028681105	2	7.90E-01	-0.138339813	2
-0.063193583	8	2.03E+00	-0.078579897	8
0	6	1.25E+00	0.261486137	6
0	2	8.41E-01	0.0312716	2
0.526811405	5	1.95E-01	0	5
-0.080351235	2	1.00E+00	0	2
-0.431165151	3	2.82E+00	0	3
-0.019486475	3	9.77E-01	0	3
-0.598662355	4	6.03E+00	0.061145687	4
-0.331827404	7	5.40E+00	-0.002649617	7
-0.000231157	6	1.25E+00	0.000752876	6
-0.204108473	6	2.68E+00	-0.042862232	6
0.318364888	11	3.43E-01	1	11
-0.012603748	14	3.03E+00	0.665611167	14
0.040438681	12	1.79E+00	-0.012239475	12
-0.483682955	12	4.17E+01	-0.026353909	12
0.928830679	5	5.11E-02	1	5
0.256421058	24	4.97E-01	0.61488672	24
0.1088103	3	7.02E-01	-0.280285358	3
-0.356452641	3	2.33E+00	-0.127646999	3
0.230049755	6	5.32E-01	-0.73888832	6
-0.295496873	6	3.76E+00	-0.463041859	6
-0.02048402	4	1.09E+00	-0.075519003	4
0.219326309	4	5.37E-01	0.868730092	4
0.229286184	9	5.53E-01	0.132271612	9
-0.516754264	8	1.55E+01	-0.222012545	8
-0.309474547	3	2.06E+00	-0.182047232	3
0	1	7.61E-01	-0.040338981	1
0	5	1.13E+00	-0.186365602	5
-2	8	1.60E+03	-0.332026077	8
-1	2	9.38E+00	0	2
-0.842543781	5	1.89E+01	0	5
-0.077195232	9	2.46E+00	-0.171107648	9
-0.185787639	6	2.50E+00	-0.048119845	6
-0.236056964	7	3.65E+00	0	7
-0.364969976	6	4.87E+00	0	6
0.035469575	12	1.84E+00	0	12

-0.121480133	8	2.64E+00	-0.782557403	8
-0.34412947	5	3.58E+00	-0.028349776	5
-0.316018199	5	3.26E+00	-0.027948045	5
0.055972312	12	1.63E+00	0.191044417	12
-0.032846874	21	7.61E+00	0.05012651	21
-0.029345317	1	8.03E-01	-6.70E-05	1
0.130992079	7	8.09E-01	-0.068692243	7
0.054669719	22	3.60E+00	0.034045795	22
-0.531026001	2	2.69E+00	-0.125162655	2
-0.939966142	2	6.60E+00	-0.425429311	2
-0.192805796	5	2.16E+00	0.407886949	5
-1	2	9.35E+00	-1	2
-0.19724396	7	3.11E+00	-0.030031216	7
-0.059904682	2	9.59E-01	-1	2
-0.193482174	18	2.06E+01	-0.213085719	18
0.063230512	13	1.68E+00	0.601268054	13
-0.052741897	5	1.35E+00	0.004767073	5
0.403322158	21	1.23E-01	0.371379115	21
0.798581449	43	3.20E-05	1	43
1	1	9.05E-02	2	1
0.122433721	22	1.85E+00	0.160428697	22
0.018115878	12	2.04E+00	0.025649555	12
0.310829656	14	3.38E-01	0.445340308	14
-0.058224044	14	4.12E+00	0.182179022	14
-0.568550445	5	7.57E+00	-0.003242782	5
0	5	1.13E+00	-0.088397003	5
-0.625737658	8	2.53E+01	-0.447699399	8
-0.451213343	6	6.71E+00	-0.036959815	6
0.403896172	46	3.13E-02	0.298859362	46
0.061998769	9	1.25E+00	-0.212409437	9
0.051261882	2	7.52E-01	0	2
0.021744412	3	8.79E-01	0	3
0.175699784	5	6.31E-01	0.247705663	5
-0.036597565	10	2.26E+00	0.191104892	10
-0.532216563	12	5.59E+01	-0.46641643	12
0	2	8.41E-01	0	2
0.058861838	11	1.48E+00	0.01682708	11
-0.146358508	23	3.04E+01	0.09545338	23
0.012433965	9	1.59E+00	0.024693715	9
0.153652552	6	7.07E-01	-0.338407195	6
-0.260407258	8	4.92E+00	-0.497666238	8
-0.388455094	4	3.24E+00	0	4
-0.111943279	8	2.53E+00	0	8
-0.408131501	7	7.38E+00	-0.184748099	7
-0.075439362	5	1.46E+00	-0.000156709	5
-0.157824842	9	3.64E+00	-0.225311016	9
0.043509145	4	9.03E-01	-0.172188177	4

-0.026672794	1	7.99E-01	-0.044311531	1
-0.178711577	4	1.74E+00	0.136061826	4
-0.000459525	1	7.62E-01	-0.067619586	1
-0.763500827	11	1.52E+02	-0.389769215	11
-0.01845626	3	9.75E-01	0	3
-0.015385439	2	8.70E-01	0.025460006	2
-0.095971711	5	1.56E+00	0.232776798	5
-0.081172279	7	1.93E+00	-0.333569407	7
0.251241507	2	4.85E-01	-1	2
-0.00192602	6	1.26E+00	-0.003832254	6
-0.197839409	22	4.31E+01	-0.310067511	22
-0.190909259	3	1.52E+00	0	3
-0.302740469	2	1.63E+00	0	2
-0.150079861	5	1.87E+00	-0.155028172	5
-0.261010973	4	2.22E+00	0.067838444	4
-0.176675289	10	4.72E+00	-0.148158877	10
-0.243267301	5	2.55E+00	-0.010706198	5
-0.096447407	11	3.55E+00	-0.137882557	11
0	2	8.41E-01	0	2
-0.177595174	19	2.14E+01	-0.204601076	19
-0.311450704	31	9.43E+02	-0.538401977	31
-0.163119203	7	2.70E+00	0.839748682	7
1	8	8.47E-03	2	8
0.108158045	10	1.06E+00	-0.09573047	10
0.099669424	25	2.78E+00	0.283820095	25
0.032921213	4	9.31E-01	-0.415876012	4
-0.141903452	14	7.27E+00	0.376421801	14
0.441243067	40	2.33E-02	0.387564298	40
0.030276329	9	1.46E+00	0.122061435	9
-0.017293228	3	9.72E-01	-0.072061995	3
-0.558780625	6	1.00E+01	-0.451481995	6
-0.457544634	1	1.74E+00	0	1
-0.112111393	20	1.40E+01	-0.083963986	20
-0.782116801	3	6.96E+00	-0.430191324	3
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
-0.779863397	9	7.51E+01	-1	9
-0.062357108	3	1.09E+00	-0.021242029	3
0	2	8.41E-01	0	2
-0.159692637	3	1.40E+00	-0.007964992	3
-0.903401499	9	1.37E+02	0.907177963	9
-0.028856848	2	8.96E-01	-5.94E-05	2
0.031943811	3	8.56E-01	0.087113436	3
0	1	7.61E-01	0	1
0	4	1.03E+00	0	4
-0.114622381	5	1.66E+00	-0.178171108	5
-0.248047839	2	1.45E+00	-0.927637923	2

-0.004010089	2	8.49E-01	-0.024317487	2
-0.241312219	2	1.43E+00	-0.067748222	2
-0.162238956	2	1.20E+00	0	2
0	3	9.29E-01	0	3
0.108501816	5	7.90E-01	-0.148784399	5
-0.305418438	2	1.64E+00	0	2
-0.011409715	2	8.62E-01	0	2
-0.087738162	8	2.27E+00	-0.044811093	8
-0.001937408	7	1.40E+00	-0.154789836	7
-0.406324188	8	9.46E+00	0.598153667	8
0	3	9.29E-01	0	3
0	1	7.61E-01	0	1
0.498126609	4	2.35E-01	-0.340401722	4
0.684908116	6	9.80E-02	0.10092637	6
-0.215996724	5	2.33E+00	-0.001237774	5
-0.0498515	5	1.34E+00	-0.313257752	5
0	2	8.41E-01	0	2
0	2	8.41E-01	0	2
-0.026672794	1	7.99E-01	0	1
-0.092688703	20	1.17E+01	-0.169298985	20
-0.363210728	8	7.79E+00	-0.21477137	8
-0.038802091	2	9.16E-01	0	2
-0.645975366	9	3.92E+01	-1	9
-0.435972295	2	2.19E+00	-0.073627778	2
-2	21	4.22E+07	-1	21
-0.116339049	2	1.09E+00	-0.128951834	2
0	5	1.13E+00	-0.214039102	5
0.012525522	2	8.18E-01	-0.063551853	2
-0.258670216	3	1.81E+00	-0.382469128	3
-0.02900308	5	1.25E+00	-0.264620346	5
0	2	8.41E-01	0.248706078	2
0.272357899	7	4.53E-01	0.728311456	7
0.586280289	9	9.74E-02	-0.117414591	9
0	9	1.69E+00	-0.005394615	9
0.105698461	18	1.72E+00	0.251612167	18
0.128802519	7	8.16E-01	-0.199757023	7
-0.114937577	15	6.99E+00	0.14785514	15
-0.15738076	13	6.88E+00	-0.185515856	13
0	10	1.87E+00	0	10
-0.129047008	15	7.73E+00	-0.382463747	15
0.018061085	4	9.73E-01	-0.030166635	4
0.618050309	7	1.10E-01	0.377676892	7
-0.014155207	3	9.64E-01	0.191462843	3
0.09221613	12	1.31E+00	0.384883645	12
0	3	9.29E-01	0	3
0	9	1.69E+00	0	9
-0.012762849	1	7.79E-01	0	1

0.090777765	23	2.70E+00	0.115472892	23
0.636481698	6	1.17E-01	0.083548621	6
0.002672631	5	1.12E+00	0	5
0	9	1.69E+00	0.266408075	9
-0.045738715	15	4.26E+00	-0.267667565	15
0.769806225	6	7.15E-02	1	6
-0.067553792	16	5.65E+00	-0.076146903	16
0.245114324	23	5.57E-01	0.223266658	23
0.514492591	18	5.77E-02	0.26785774	18
-0.0409842	13	3.27E+00	-5.60E-06	13
-0.245536531	5	2.57E+00	0.414029758	5
0.045055285	5	9.76E-01	0.706800601	5
0	10	1.87E+00	0	10
-0.266566975	10	7.56E+00	-0.138755019	10
-0.152005241	12	5.68E+00	-0.255391978	12
-0.206897877	2	1.32E+00	-0.093435176	2
0.024002095	9	1.50E+00	-0.347551353	9
-0.098135256	7	2.07E+00	-0.057050171	7
-0.026934694	6	1.38E+00	0.002943672	6
-1	14	4.64E+04	-0.246119582	14
-0.67622158	4	7.58E+00	-2	4
-0.074382114	8	2.13E+00	-1	8
-0.097623501	8	2.37E+00	0.192393983	8
0.222394618	5	5.40E-01	-0.831514502	5
-0.300765574	2	1.63E+00	-0.811973971	2
-0.830486378	2	5.19E+00	-0.51294958	2
-0.378598112	4	3.14E+00	-0.733408999	4
-1	3	2.11E+01	-1	3
-0.763129944	4	9.80E+00	-0.141756325	4
-0.56002616	10	3.53E+01	-0.966222587	10
0.742110992	2	1.65E-01	-0.287462529	2
-0.604295412	7	1.65E+01	0.776693801	7
-0.474289061	2	2.38E+00	-0.064134997	2
-0.304621465	4	2.53E+00	0	4
0.282441699	2	4.53E-01	-0.056492967	2
-0.215314378	10	5.78E+00	0.041639092	10
0	1	7.61E-01	0	1
-0.0022735	2	8.45E-01	0	2
-0.173657418	5	2.03E+00	0	5
0.050248761	6	1.04E+00	0	6
0.355629959	9	2.99E-01	-0.034704841	9
0.010513603	2	8.22E-01	0	2
0	2	8.41E-01	0	2
0	4	1.03E+00	0	4
-0.586340869	2	3.04E+00	0	2
-0.098498749	6	1.81E+00	0	6
0.18693429	2	5.58E-01	-0.393489328	2

-0.031292578	8	1.76E+00	0.006530345	8
-0.02545489	12	2.65E+00	-0.110681063	12
0	4	1.03E+00	0	4
0.18587341	12	7.45E-01	-0.033864643	12
0.014603441	7	1.30E+00	0.017022923	7
-0.049221206	45	1.52E+02	0.025009103	45
-0.196966986	6	2.61E+00	-0.000200869	6
0.03329094	9	1.44E+00	-0.018366233	9
-0.010447909	3	9.55E-01	-0.026939905	3
-0.000536661	11	2.07E+00	0.071167832	11
0	12	2.28E+00	0	12
-0.555226066	24	2.70E+03	-0.717410145	24
0	6	1.25E+00	0	6
0.015239825	3	8.94E-01	0	3
0.028378348	15	2.51E+00	0.097612068	15
-0.08859242	2	1.02E+00	-0.112407258	2
-0.040850469	8	1.84E+00	-0.124505825	8
0	4	1.03E+00	-0.103700503	4
0.019459453	8	1.40E+00	-0.145716778	8
0.153261456	4	6.53E-01	-0.000327141	4
0	4	1.03E+00	0	4
0.123174295	6	7.92E-01	0.001401232	6
0.023404554	2	7.99E-01	0.091783941	2
0.199038839	3	5.57E-01	0.060112601	3
0.061571197	6	9.96E-01	0.009891624	6
-0.371567239	24	3.86E+02	-0.572487854	24
-0.291816811	10	8.63E+00	-0.026912278	10
-0.089222994	9	2.61E+00	0	9
-0.419049814	13	3.67E+01	-0.105234616	13
-0.304519924	10	9.23E+00	-0.4993024	10
-0.349011233	15	3.74E+01	-0.568798602	15
-0.641497949	9	3.83E+01	-0.433725727	9
4	8	2.15E-08	4	8
0.039562094	11	1.65E+00	-0.000739928	11
-0.053253247	11	2.78E+00	0.175751817	11
0	8	1.53E+00	-0.055298328	8
0	2	8.41E-01	0	2
0.020850017	27	7.94E+00	0.020735319	27
0.028407036	3	8.64E-01	0.289529538	3
0	4	1.03E+00	0.010616739	4
0	8	1.53E+00	0	8
0.618536514	7	1.09E-01	0.290857266	7
-0.106876754	8	2.47E+00	-0.155136103	8
1	8	7.58E-03	1	8
-0.149573886	5	1.87E+00	-0.007204542	5
0.013939633	1	7.42E-01	0	1
0.092745075	9	1.08E+00	-0.033118974	9

0.828252866	3	1.10E-01	-0.383750488	3
0	8	1.53E+00	-0.00402939	8
0	3	9.29E-01	0	3
-0.040383386	12	2.90E+00	0.015556914	12
-0.023442595	10	2.11E+00	0.379673708	10
0.290782448	11	4.01E-01	0.419268441	11
-0.19813901	7	3.12E+00	0.047546922	7
-0.001474504	8	1.54E+00	0.033498181	8
0	1	7.61E-01	0	1
-0.442902313	5	4.97E+00	-1	5
0.035477808	3	8.48E-01	0.018502443	3
-0.427169426	4	3.63E+00	-5.56E-05	4
-0.080658136	6	1.69E+00	0.471559627	6
-0.683084187	4	7.73E+00	-0.783248971	4
-0.905593087	3	9.56E+00	-0.715682419	3
-0.108797899	8	2.49E+00	0.009345294	8
-0.718296909	1	2.79E+00	-1	1
-0.273083729	15	2.17E+01	-0.449483508	15
-0.247652049	8	4.64E+00	-0.058838377	8
-0.14436287	6	2.14E+00	-0.042475096	6
-0.019163662	2	8.77E-01	0	2
-0.324815141	3	2.14E+00	-0.378082437	3
-0.710448465	6	1.76E+01	-0.451070367	6
-0.082602792	1	8.84E-01	-0.046606439	1
-0.00355164	3	9.38E-01	-0.005903574	3
-0.989199443	5	3.08E+01	-0.335081855	5
-0.645542892	4	6.92E+00	-0.546041649	4
-0.083549417	1	8.86E-01	-0.056925308	1
-0.650567754	3	4.96E+00	-0.809695052	3
-1	6	2.76E+02	-0.933019091	6
-0.653117064	2	3.52E+00	-0.096496794	2
-2	2	2.93E+01	-0.511680456	2
-0.958966879	5	2.79E+01	-0.751456169	5
-0.671716031	8	3.11E+01	-0.26737343	8
-0.018176919	3	9.74E-01	-0.431877669	3
0	2	8.41E-01	-0.720944611	2
-0.587260432	3	4.21E+00	-1	3
-0.501691514	4	4.52E+00	-0.023393163	4
-1	9	2.37E+03	-0.704015318	9
0.25779343	36	4.96E-01	0.359090129	36
-0.112865613	5	1.65E+00	-0.214469965	5
-0.066572037	37	7.74E+01	-0.204087079	37
-0.00246121	6	1.26E+00	0	6
-0.088977955	5	1.53E+00	0	5
0	3	9.29E-01	0	3
0.032690514	6	1.11E+00	-0.0116345	6
-0.000141669	1	7.62E-01	0	1

-0.497428118	3	3.34E+00	-0.059977346	3
-0.014580234	2	8.69E-01	-0.02417397	2
-0.28037939	8	5.38E+00	-0.261661812	8
-0.627756837	3	4.68E+00	-0.074960457	3
0.571505548	7	1.33E-01	-0.005141972	7
0.141791346	8	8.10E-01	0.017188661	8
-0.786783721	3	7.04E+00	0	3
0	1	7.61E-01	0	1
0.113979286	15	1.36E+00	0.095134461	15
-0.234344421	7	3.62E+00	-0.305596368	7
0	2	8.41E-01	0	2
-0.124493521	3	1.28E+00	0.006642093	3
0.157590109	4	6.44E-01	0.02325549	4
0.163101658	18	1.07E+00	0.335934887	18
0.023328323	11	1.81E+00	-0.429723186	11
0.059087405	1	6.84E-01	0	1
-0.245171121	11	8.20E+00	-0.057517963	11
0.016936748	2	8.11E-01	-0.26881261	2
-0.621398074	6	1.26E+01	0.173746006	6
0.476005718	9	1.67E-01	-0.392458346	9
-0.000107188	3	9.30E-01	0.016022527	3
0	4	1.03E+00	0.016448147	4
-0.137231321	3	1.32E+00	0.310921038	3
0.001474388	3	9.26E-01	-0.013680481	3
-0.038141372	2	9.15E-01	0	2
0	1	7.61E-01	-0.042232036	1
0	1	7.61E-01	-0.055179976	1
0.704689655	2	1.79E-01	-0.849344578	2
-0.467109156	2	2.34E+00	-1	2
-0.925414609	4	1.58E+01	-0.309624315	4
-0.857199289	3	8.44E+00	0.835031619	3
-0.000353711	1	7.62E-01	0.051921024	1
0	2	8.41E-01	0	2
0.930140583	62	2.37E-08	1	62
0.411203134	11	2.04E-01	2	11
0.822619345	7	4.74E-02	3	7
0.077303422	13	1.53E+00	0.152312387	13
0.035274659	15	2.39E+00	0.064494939	15
-0.09794734	4	1.37E+00	-0.275327686	4
-0.176500342	11	5.57E+00	-0.278468821	11
0.368081656	79	1.59E-02	0.688980757	79
0	1	7.61E-01	0	1
-0.127780418	4	1.50E+00	-0.00063547	4
-0.199906763	3	1.55E+00	-0.09803955	3
0.275719445	21	4.12E-01	0.388768182	21
-0.010193739	9	1.78E+00	-0.128343906	9
-0.286993788	4	2.40E+00	-0.257798701	4

-0.03399162	9	1.99E+00	0.108265419	9
0.86981863	4	7.85E-02	0.8951963	4
1	1	9.99E-02	1	1
-0.243238201	5	2.55E+00	0.027368949	5
0.022409141	7	1.26E+00	0	7
0.140819159	5	7.09E-01	0.395053827	5
0.077431915	39	9.47E+00	0.064021937	39
0.077818494	8	1.08E+00	-0.000133339	8
-0.029447357	14	3.39E+00	0.000278427	14
0.134416511	3	6.57E-01	0.226902462	3
-0.870633015	6	3.20E+01	0.040428873	6
0.68993985	5	1.13E-01	0.219211935	5
-0.337837906	5	3.50E+00	0.179449516	5
-0.087034408	3	1.16E+00	-0.80289559	3
1	4	4.14E-02	0.032394138	4
0.231107472	3	5.13E-01	-0.033726177	3
0.214139732	11	6.17E-01	-0.43517994	11
-0.350863904	8	7.38E+00	-0.091187562	8
-0.703561054	4	8.22E+00	0.09037984	4
-0.012328389	6	1.31E+00	-0.000255842	6
0	2	8.41E-01	0	2
-0.006479367	4	1.05E+00	0.157154212	4
-0.665394075	11	8.74E+01	-0.305158739	11
0.03309728	12	1.87E+00	-0.92973847	12
2	34	1.95E-12	2	34
-0.675615918	8	3.16E+01	-0.711663231	8
0.172628563	13	8.34E-01	-0.223391578	13
-0.073466735	1	8.70E-01	-0.062893326	1
-0.183850569	6	2.48E+00	-1	6
-0.331084549	9	8.46E+00	-0.593091608	9
-0.260284136	6	3.30E+00	0	6
-0.17979467	3	1.48E+00	-0.309372686	3
-0.701636551	13	2.24E+02	-0.689823969	13
-1	13	2.74E+03	-0.752388643	13
1	5	1.16E-02	2	5
0	1	7.61E-01	0	1
0.128963325	36	3.51E+00	0.806272753	36
0	3	9.29E-01	0	3
0.087336705	7	9.67E-01	-0.14265905	7
-0.15198406	20	2.01E+01	-0.255961674	20
-0.090536558	13	4.49E+00	-0.226425268	13
0.01129289	10	1.76E+00	0.002483827	10
0.003636401	12	2.23E+00	0.279901684	12
0.124287631	4	7.11E-01	0.913517084	4
0.006149756	16	3.24E+00	0.37268275	16
-0.099120899	7	2.08E+00	2	7
0.219081845	12	6.10E-01	0.111108541	12

0	3	9.29E-01	0	3
-0.205309922	4	1.88E+00	0.284710834	4
0.023135476	3	8.76E-01	-0.530224035	3
-0.181510287	10	4.84E+00	-0.018206642	10
-0.075145487	34	6.02E+01	-0.061059694	34
-0.196501362	6	2.60E+00	-0.079076808	6
0.201712881	8	6.19E-01	0.029422815	8
0.37227818	12	2.43E-01	0.716214274	12
-0.1903509	6	2.54E+00	-0.062360258	6
-0.198195314	17	1.80E+01	-0.244142819	17
-0.908362505	5	2.35E+01	-0.739389134	5
-0.555539124	8	1.85E+01	-0.995030141	8
-0.280374138	5	2.89E+00	0.230154005	5
0.160932865	13	8.99E-01	0.042480993	13
-0.000282926	3	9.30E-01	-0.000470763	3
-0.185250967	7	2.96E+00	0	7
2	29	4.13E-09	2	29
-0.734981727	4	9.02E+00	-0.640375003	4
-0.027863292	6	1.39E+00	0	6
0.207634949	21	7.84E-01	0.166515832	21
-0.008721298	4	1.05E+00	0.004769257	4
-0.143344253	14	7.34E+00	-0.335450531	14
0	1	7.61E-01	0.015960188	1
0.267180268	20	4.48E-01	0.297092051	20
0.023362737	7	1.26E+00	0.018343993	7
-0.043861407	6	1.48E+00	-0.137426033	6
0.194540226	21	8.88E-01	0.102394197	21
-0.018267047	2	8.76E-01	0	2
0.035067232	18	3.09E+00	0.030463832	18
0.078723654	9	1.15E+00	0.278271399	9
0.019580353	1	7.35E-01	0.016547929	1
0.31556402	8	3.71E-01	0.201001769	8
-0.378082847	11	1.73E+01	-0.513727952	11
-0.522662882	7	1.18E+01	0.444127709	7
-0.314422452	11	1.21E+01	-0.164793605	11
-0.278108029	21	7.73E+01	0.095597778	21
1	6	3.03E-02	0.27561051	6
-0.026994915	2	8.92E-01	-0.023217885	2
-0.076497241	7	1.89E+00	-0.185611005	7
-0.399874307	5	4.31E+00	-0.586916139	5
0.000500377	5	1.13E+00	-0.282930543	5
0.17747443	3	5.89E-01	-0.556576701	3
-0.368913262	4	3.06E+00	-0.926665225	4
-1	4	5.36E+01	-2	4
-1	9	1.57E+03	-0.640344402	9
-1	8	6.14E+02	-0.291337779	8
-0.994660811	6	5.07E+01	-0.380149533	6

-0.941231742	5	2.63E+01	-0.675811276	5
-0.262641131	3	1.83E+00	-0.519071913	3
0.055393429	3	8.06E-01	0.118345474	3
1	13	2.74E-03	1	13
-0.107584158	5	1.62E+00	0.24849751	5
-0.038297351	9	2.04E+00	-0.089902298	9
0	5	1.13E+00	0	5
0.14082388	11	9.33E-01	0.110483049	11
0.074869482	31	5.60E+00	0.232971052	31
0.922507934	9	1.90E-02	2	9
0.307680899	7	3.92E-01	0.205385902	7
0.0734357	2	7.16E-01	0.086411028	2
-0.040377889	8	1.83E+00	0	8
-0.633332424	11	7.29E+01	-0.289166518	11
-0.005475552	4	1.04E+00	0.116369175	4
2	12	1.41E-05	2	12
1	14	1.25E-03	2	14
0.239146062	5	5.10E-01	0.903323058	5
-0.100597405	12	4.17E+00	-0.519181187	12
-0.607562928	31	4.80E+04	-0.529972808	31
0	2	8.41E-01	-0.016400319	2
0	3	9.29E-01	0	3
-0.061429743	5	1.39E+00	0	5
-0.010232092	6	1.30E+00	0.409546355	6
-0.701856162	43	1.38E+07	-0.257222123	43
-0.588153622	2	3.05E+00	-0.642651992	2
-0.170742441	6	2.36E+00	-0.637581919	6
0	1	7.61E-01	0.034159033	1
-0.283430215	3	1.93E+00	0.078891416	3
-0.101068038	1	9.14E-01	0.023863096	1
-0.348629498	13	2.34E+01	-0.151279618	13
-0.122074492	10	3.54E+00	-0.343868395	10
0.063116968	1	6.79E-01	0.154796221	1
0.631043397	46	4.17E-04	0.978191639	46
-0.083305214	8	2.22E+00	-0.259204776	8
0	2	8.41E-01	-1	2
-0.02546013	6	1.38E+00	0.002437546	6
0.109889312	7	8.82E-01	0.717848661	7
-0.120382282	5	1.70E+00	0.775414775	5
-0.256555934	5	2.67E+00	-0.687442077	5
0	3	9.29E-01	0	3
-0.038081607	5	1.29E+00	-5.12E-06	5
0.722504358	1	2.06E-01	0.4393292	1
0.554233343	12	8.13E-02	0.337869858	12
-0.176102827	5	2.04E+00	-0.454650445	5
-0.097887419	4	1.37E+00	-0.370770443	4
0.198364215	6	5.99E-01	0.149644806	6

1	9	5.11E-03	1	9
-0.785025062	6	2.32E+01	-0.233624088	6
-0.548102066	3	3.81E+00	-2	3
0.138194002	5	7.15E-01	0.428661376	5
0.105682137	3	7.08E-01	0.3166729	3
0.00667472	5	1.11E+00	-0.037710901	5
0.268308995	11	4.55E-01	1	11
0.186055985	2	5.59E-01	0.759207703	2
1	2	3.47E-02	2	2
0.203420928	7	6.01E-01	0.906327459	7
0.289359613	9	4.13E-01	0.676370656	9
-0.319055126	4	2.64E+00	-0.389838338	4
-0.047742819	2	9.34E-01	0.326468578	2
0.021255697	5	1.06E+00	0.371013186	5
-0.542339613	2	2.76E+00	0.79160351	2
0.151354228	14	9.97E-01	-0.570009297	14
-0.448673092	5	5.07E+00	-0.468280142	5
0	1	7.61E-01	0	1
-0.01832742	3	9.74E-01	-0.763186242	3
-0.636711151	2	3.40E+00	-0.054884399	2
-0.843365624	19	6.95E+03	-0.704308758	19
0	2	8.41E-01	-0.06591938	2
0	2	8.41E-01	-0.030651209	2
-0.446056982	4	3.84E+00	-0.110211488	4
-0.337421648	2	1.76E+00	0	2
-0.028140105	4	1.12E+00	-0.528556216	4
0	3	9.29E-01	-0.252568688	3
-0.242453071	10	6.66E+00	-0.573279625	10
0.757380475	5	9.05E-02	1	5
0.082058016	14	1.59E+00	0.033532571	14
-0.078629138	2	9.99E-01	0	2
0	1	7.61E-01	0	1
-1	6	9.98E+01	-1	6
-0.396112293	12	2.47E+01	-0.092016629	12
-0.00499425	3	9.41E-01	-0.037366747	3
0.012201786	3	9.01E-01	0	3
0.019580353	1	7.35E-01	0	1
-0.189783275	4	1.80E+00	-1	4
-0.370541975	19	1.14E+02	-0.391992276	19
-0.944841931	2	6.67E+00	0.27419068	2
-0.928219431	1	4.09E+00	-0.796797942	1
-1	6	5.74E+01	-1	6
-0.017922661	4	1.08E+00	-1	4
-0.002512333	4	1.03E+00	-0.555220615	4
-1	5	5.10E+01	-0.970159481	5
-0.238744725	6	3.05E+00	-0.798259301	6
-0.089245894	3	1.17E+00	0	3

-0.0090634	3	9.51E-01	0	3
-1	5	5.01E+01	-0.827912594	5
0.04198923	3	8.34E-01	-0.526497253	3
0.625235893	20	1.74E-02	0.644976916	20
-0.289450034	7	4.54E+00	0.309544466	7
0.449365254	49	1.06E-02	0.631376726	49
0.043906275	6	1.06E+00	0.129804876	6
0.001962486	10	1.85E+00	-0.00937832	10
-0.265453198	3	1.84E+00	-0.024598328	3
0.419596259	6	2.63E-01	-0.213362085	6
0.440378585	8	2.12E-01	0.574872919	8
0.064575026	11	1.43E+00	-0.002767699	11
0.035720368	12	1.84E+00	0.040417824	12
0.318903421	12	3.35E-01	1	12
0.420883872	45	2.41E-02	0.814024312	45
0.469309225	16	9.85E-02	1	16
0.403944761	38	4.84E-02	0.807341335	38
0.980439935	4	5.66E-02	1	4
1	7	6.81E-03	1	7
1	14	4.19E-04	1	14
0.796229983	18	5.56E-03	1	18
0.081678607	3	7.53E-01	-0.050985034	3
-0.363048867	9	9.89E+00	0.054479952	9
2	15	1.57E-06	3	15
0.095347802	1	6.41E-01	0.27220398	1
0.108780182	2	6.63E-01	0.213644063	2
0.002402158	5	1.13E+00	0.659739144	5
-0.22742632	11	7.42E+00	-0.162017796	11
-0.928307156	11	3.84E+02	-0.735751518	11
0.073385768	10	1.27E+00	-0.066480527	10
-0.146733222	5	1.85E+00	0.008492356	5
0.791659907	2	1.48E-01	0.213103736	2
0.855421956	18	3.40E-03	1	18
-0.05674891	13	3.62E+00	0.473866676	13
0.981325696	6	3.25E-02	0.32169985	6
2	6	8.46E-04	3	6
0.744811228	23	3.38E-03	0.929879324	23
-0.044304201	2	9.27E-01	0.354634224	2
-0.082310103	7	1.94E+00	0.225307674	7
0.552677597	17	4.70E-02	0.853016265	17
2	13	4.17E-07	3	13
0.303638486	5	4.12E-01	0.481261989	5
0.474844754	2	2.97E-01	1	2
-0.320363055	11	1.25E+01	0.342785768	11
-0.571586899	6	1.05E+01	0.051006748	6
0.002893886	7	1.37E+00	0.109133404	7
0.004384913	3	9.19E-01	0.002929984	3

1	57	1.66E-09	2	57
0.122540259	11	1.03E+00	0.099680657	11
-0.006258017	3	9.44E-01	0.010361662	3
-0.271475021	10	7.76E+00	-0.028109494	10
-0.235378287	20	4.27E+01	-0.18266173	20
0.040722311	15	2.29E+00	-0.012074653	15
-0.005071859	7	1.41E+00	-0.170231075	7
0.164973564	28	1.52E+00	0.256019078	28
0	3	9.29E-01	0	3
-0.072002363	17	6.63E+00	-0.014626367	17
-0.003345102	5	1.15E+00	0	5
-0.115776404	5	1.67E+00	-0.016931762	5
-0.026146192	6	1.38E+00	0.064253907	6
-0.035814414	2	9.10E-01	0.059131291	2
-0.119187811	14	6.23E+00	-0.558665065	14
0.080260749	6	9.30E-01	-0.043994472	6
-1	3	2.68E+01	-1	3
-0.273716053	9	6.40E+00	-0.600149178	9
-0.027687602	2	8.94E-01	-0.689212968	2
-0.302706434	3	2.03E+00	0.303874377	3
-0.227129241	8	4.23E+00	0.251506497	8
0.187689044	3	5.73E-01	-0.078919288	3
0.000319869	11	2.06E+00	-0.066078581	11
0	5	1.13E+00	0	5
-0.709848365	9	5.34E+01	-0.782650331	9
-0.065779556	1	8.58E-01	-0.767058752	1
-0.664081742	6	1.48E+01	-0.497774549	6
0	6	1.25E+00	0	6
0	7	1.38E+00	0	7
0	5	1.13E+00	0	5
0	6	1.25E+00	0	6
0	7	1.38E+00	0	7
0	5	1.13E+00	0	5
0.267415507	21	4.46E-01	0.916531834	21
-0.218624884	10	5.88E+00	-0.138721349	10
0	8	1.53E+00	-0.006977063	8
-0.040128082	14	3.65E+00	-0.072260288	14
-0.077036329	7	1.90E+00	0.11583886	7
-0.159049426	16	1.13E+01	0.233863994	16
-0.077811486	5	1.47E+00	0.028967295	5
-0.399350385	5	4.30E+00	0.029461311	5
0	2	8.41E-01	0	2
0.48696279	21	5.60E-02	0.496830335	21
0.266125704	37	4.37E-01	0.166678864	37
0.471389847	6	2.17E-01	-0.155918067	6
0.303113368	4	4.19E-01	-0.502036487	4
-0.292624797	4	2.44E+00	-0.140436549	4

-0.439944333	16	9.36E+01	0.423378705	16
0.253680135	11	4.94E-01	0.557220975	11
-0.095411392	5	1.56E+00	0.009819279	5
-0.200995803	13	9.10E+00	-0.501535841	13
0	2	8.41E-01	0	2
-0.042602382	5	1.31E+00	-0.128375214	5
0.056875497	18	2.58E+00	-0.326038844	18
-0.466535656	3	3.09E+00	-0.260278836	3
0.042774544	43	2.33E+01	-0.097389346	43
-0.001676942	4	1.03E+00	-0.303434068	4
0.805678446	21	2.75E-03	2	21
0.015791743	7	1.30E+00	-0.008629654	7
-0.332904945	20	1.03E+02	-0.233458973	20
-0.16355657	11	5.18E+00	-0.16165516	11
0.337942922	8	3.36E-01	0.040347518	8
0.148533279	16	1.11E+00	0.268686412	16
0.475239642	4	2.52E-01	1	4
0.234989681	10	5.44E-01	0.068898752	10
0.356841323	14	2.48E-01	-0.298891785	14
-0.062785573	15	4.81E+00	-0.325954082	15
0.029718157	12	1.90E+00	-0.137699281	12
-0.041871979	1	8.21E-01	-1	1
-0.059510007	10	2.55E+00	0.380836307	10
-0.326116059	4	2.69E+00	-0.496687171	4
-0.735376893	8	4.14E+01	-0.813209676	8
0	2	8.41E-01	0	2
-0.029314824	4	1.12E+00	-0.04708265	4
-0.345063561	5	3.59E+00	-0.404353754	5
0.041195427	14	2.10E+00	-0.104341052	14
0.41990502	31	5.74E-02	0.966665639	31
0.655296314	28	3.97E-03	0.589099627	28
0.907852183	7	3.34E-02	0.788826983	7
-0.221828721	6	2.86E+00	-0.449999191	6
0.635979294	7	1.02E-01	0.339138724	7
0.083666529	18	2.07E+00	0.489540755	18
-0.143328222	23	2.95E+01	0.216386087	23
-0.643455335	12	1.09E+02	0.030713503	12
0.107403542	7	8.91E-01	-0.027301269	7
-0.408454279	3	2.66E+00	-0.759303435	3
0.368872021	42	7.18E-02	0.871424181	42
0.129290892	10	9.47E-01	1	10
0.605525962	15	4.02E-02	1	15
0.206412534	5	5.69E-01	0.531167004	5
-0.017256296	1	7.86E-01	-3.95E-05	1
-0.121388134	11	4.08E+00	-0.177610317	11
-0.564726204	8	1.92E+01	-0.261542032	8
-0.027069682	6	1.39E+00	0.446582565	6

0.366278044	27	1.37E-01	2	27
-0.093759963	18	9.02E+00	0.093538315	18
-0.007918577	2	8.56E-01	0	2
0.766771241	16	1.05E-02	0.583401052	16
-0.182984871	10	4.88E+00	-0.412985666	10
0.265462173	23	4.52E-01	0.376899051	23
0.346500943	10	3.03E-01	-0.204884948	10
0.92174752	4	6.73E-02	0.896150041	4
0.620694781	6	1.24E-01	-0.638164289	6
-0.024838482	4	1.10E+00	-1	4
0.278386688	6	4.45E-01	-0.305486902	6
0.880039828	11	1.45E-02	0.957326163	11
-0.66038269	16	4.93E+02	-0.620177962	16
0.310719044	22	2.90E-01	0.092996677	22
-0.082221598	5	1.49E+00	-0.194618764	5
-0.937423882	17	6.30E+03	-1	17
0.287377415	7	4.26E-01	-0.168340734	7
0.036875403	6	1.09E+00	0.297811932	6
0.425838039	16	1.37E-01	0.687962388	16
-0.027218147	10	2.15E+00	0.297970392	10
0.487573259	15	9.36E-02	0.437184423	15
0.894302719	9	2.18E-02	1	9
0.029304687	15	2.49E+00	0.333094656	15
0.15816348	10	8.14E-01	0.413660224	10
0.321694066	8	3.61E-01	-0.093750091	8
0.312522215	15	3.28E-01	0.403232257	15
-0.506138925	11	3.56E+01	-0.219009236	11
0.229824389	9	5.52E-01	-0.258302044	9
0.201948301	7	6.04E-01	-0.181377034	7
-0.767393791	16	1.11E+03	0.015963548	16
-0.297270214	12	1.36E+01	-0.038301957	12
-0.574368482	7	1.46E+01	-0.172564855	7
0.635342082	6	1.18E-01	0.450064064	6
-0.129189329	5	1.75E+00	0.115671156	5
1	10	2.15E-03	0.945696307	10
-0.278248761	15	2.25E+01	0.267104147	15
0.681115626	29	2.47E-03	0.878529564	29
0.620277119	9	8.26E-02	1	9
0.39973007	11	2.17E-01	-0.213048553	11
0.495618093	11	1.27E-01	0.212101981	11
0.267798493	5	4.64E-01	0.214680491	5
0.034422317	10	1.56E+00	0.700275561	10
-0.124674512	4	1.48E+00	0.076189073	4
0.211396873	5	5.60E-01	-0.039385041	5
-0.123912464	3	1.28E+00	0.562639326	3
0.355105307	15	2.42E-01	0.996040723	15
0.293812498	8	4.09E-01	-0.095679334	8

-0.200480932	5	2.21E+00	0.078118188	5
0.503814616	18	6.31E-02	1	18
-0.108023325	1	9.26E-01	-0.000144775	1
-0.000192343	16	3.40E+00	0.002746053	16
0.705828398	12	3.27E-02	0.519125016	12
0.360765021	1	3.96E-01	0.567750405	1
-0.003133879	3	9.37E-01	-0.146172139	3
0.139335117	26	1.89E+00	0.653608164	26
-0.086769358	2	1.02E+00	0	2
-0.080229196	2	1.00E+00	0	2
0.056750332	22	3.53E+00	0.144711536	22
-0.248221629	5	2.60E+00	-0.281762597	5
0.158010339	12	8.81E-01	0.254033927	12
-0.032692299	5	1.26E+00	0.068956666	5
0.185327565	11	7.26E-01	0.11801695	11
1	7	6.20E-03	0.401145185	7
0.766837077	10	3.33E-02	1	10
-0.186473369	2	1.27E+00	-0.089250974	2
0.074397808	16	1.94E+00	-0.301731781	16
0.513650045	8	1.53E-01	0.720768224	8
0.101678765	3	7.15E-01	-0.118354201	3
-0.222701739	20	3.81E+01	0.276378862	20
0.252969184	8	4.92E-01	1	8
-0.170526669	3	1.44E+00	0.021148845	3
-0.168446712	9	3.83E+00	-0.565153506	9
0.381460165	18	1.74E-01	1	18
0.310913668	44	1.90E-01	0.408110735	44
-1	12	1.04E+03	-1	12
-1	4	7.53E+01	-2	4
-0.172955112	38	4.79E+02	-0.084341761	38
0.572746073	27	1.22E-02	0.482554974	27
0.23558989	14	5.63E-01	0.007592583	14
-0.783137161	3	6.98E+00	-1	3
-0.824043624	9	9.32E+01	-0.592555665	9
-0.382261578	7	6.64E+00	0.156311502	7
0.019825821	7	1.28E+00	0.819416	7
0.088203783	50	1.64E+01	0.268981414	50
-0.51486909	16	1.65E+02	-0.101416611	16
0.005492263	3	9.16E-01	-0.298882033	3
-0.157482213	4	1.64E+00	0.099213271	4
0.017446116	13	2.25E+00	0.854539709	13
-0.252750282	3	1.78E+00	-0.468267741	3
0.16361583	4	6.33E-01	-0.172814106	4
0.476724983	3	2.72E-01	0.378197176	3
0.303304426	12	3.68E-01	0.218410184	12
0.081173659	21	2.59E+00	0.258101352	21
-0.368289657	14	3.37E+01	-0.149203865	14

0.696290976	20	9.14E-03	0.646100599	20
0.286965552	6	4.31E-01	0.089105789	6
-0.246276781	8	4.61E+00	-0.660129199	8
0.169906531	7	6.89E-01	-0.86293247	7
-0.231202836	4	2.03E+00	-0.777986973	4
-1	13	5.31E+03	-0.169500843	13
-0.692268382	6	1.65E+01	-0.913228372	6
-0.635170301	7	1.87E+01	-0.259623672	7
-0.000136952	3	9.30E-01	-0.019634111	3
-0.16781197	4	1.69E+00	0	4
0.383644394	2	3.63E-01	-0.000903969	2
0.025126274	1	7.28E-01	0	1
-0.694883945	7	2.39E+01	-0.522207897	7
-0.27202055	3	1.87E+00	-0.398775086	3
-0.110993928	1	9.31E-01	0	1
-0.207087109	10	5.53E+00	-0.476877067	10
-0.37494964	3	2.44E+00	-0.054753127	3
-0.74561603	2	4.31E+00	-1	2
-1	12	1.81E+04	-2	12
-0.20137208	2	1.31E+00	-0.060347221	2
-0.082791514	6	1.70E+00	-0.319117447	6
0	1	7.61E-01	-0.046606439	1
-0.182132203	2	1.25E+00	-0.598743437	2
-1	4	2.12E+01	0	4
0	3	9.29E-01	-0.222455785	3
-0.153210685	1	1.00E+00	0	1
-0.360985125	7	6.09E+00	0.154989543	7
-0.136655601	2	1.13E+00	0.27422264	2
-0.335840581	2	1.76E+00	-0.020464701	2
0.283750198	4	4.44E-01	0.626646493	4
1	18	5.98E-04	2	18
0.706946557	6	9.03E-02	2	6
0.325170719	5	3.83E-01	1	5
-0.311915713	17	4.44E+01	-0.143343035	17
-0.252132878	5	2.63E+00	0.152560857	5
-0.808839877	6	2.54E+01	-0.011849379	6
2	33	4.09E-09	2	33
0.125548079	3	6.73E-01	0.232944064	3
-0.166245158	1	1.03E+00	0.456514766	1
-0.086162974	7	1.97E+00	-0.389748373	7
-0.145848319	10	4.01E+00	-0.51629784	10
-0.311864907	5	3.21E+00	0.004148117	5
-0.647351319	4	6.96E+00	0.334220366	4
-0.315152987	4	2.61E+00	0.67863141	4
0.848132227	28	3.83E-04	0.988615532	28
-0.135419695	7	2.41E+00	-0.562460348	7
0.404818321	16	1.60E-01	0.020787403	16

0.314507106	80	8.50E-02	0.473270345	80
-0.976326328	49	3.17E+10	-1	49
-0.778317119	5	1.52E+01	-1	5
-0.125467602	41	3.49E+02	0.111728156	41
0.68624481	42	2.80E-04	1	42
-0.065771192	8	2.05E+00	0.134720863	8
-0.56796551	6	1.04E+01	-0.511357986	6
-0.197241919	14	1.06E+01	0.08230122	14
-0.135957963	3	1.32E+00	0.762228585	3
0	6	1.25E+00	0	6
0.464834615	11	1.51E-01	0.353844917	11
-1	2	1.17E+01	-0.846412462	2
-0.724040649	9	5.73E+01	-0.577832301	9
-0.67901171	18	1.16E+03	-0.68231721	18
-0.89470332	10	2.04E+02	-0.363022177	10
-0.957956813	20	3.00E+04	-1	20
0	1	7.61E-01	0	1
-0.137366716	10	3.84E+00	0.222962288	10
0.482856343	9	1.61E-01	0.382837467	9
0	1	7.61E-01	0	1
-0.032627665	2	9.04E-01	-0.190413846	2
-0.323908834	5	3.34E+00	0.420287592	5
-0.238834319	6	3.05E+00	-0.279162935	6
-0.398160221	2	2.01E+00	0	2
-0.703599544	6	1.72E+01	0	6
-0.411517018	6	5.79E+00	0.405428111	6
0	4	1.03E+00	-0.107381002	4
-0.000141901	7	1.38E+00	-0.088135837	7
-0.414767339	3	2.70E+00	0	3
-0.690133897	4	7.90E+00	-0.122883046	4
0	2	8.41E-01	0	2
-0.247340617	4	2.13E+00	0.065029618	4
0.564214124	6	1.54E-01	0.585727012	6
-1	6	6.03E+01	-0.079212433	6
-0.30978561	5	3.19E+00	-0.691964237	5
-0.655480469	13	1.66E+02	-0.382576398	13
-0.008964984	6	1.30E+00	0	6
0.191270625	4	5.83E-01	1	4
-0.081822114	6	1.70E+00	-0.134485235	6
-0.220559268	4	1.97E+00	-0.123301543	4
0.616604251	3	1.90E-01	-0.010080544	3
0.39244981	3	3.38E-01	0.935898521	3
0.688919861	9	5.91E-02	0.745418642	9
0.481656078	1	3.18E-01	0.630250433	1
0.57076035	16	4.58E-02	0.378659007	16
-0.343473096	9	8.99E+00	0.093411514	9
-0.018206261	8	1.66E+00	0.3209845	8

1	8	1.02E-02	0.452806032	8
0.639795172	13	4.21E-02	0.440026469	13
-0.154321046	4	1.62E+00	0.515343829	4
-0.076854877	5	1.47E+00	-1	5
0.336092732	4	3.80E-01	0.854707765	4
0.376487016	5	3.23E-01	0.197309439	5
-0.875266097	23	5.20E+04	0.334605932	23
-0.086670569	4	1.33E+00	-0.319814339	4
-0.439981677	11	2.46E+01	-1	11
-0.88078273	4	1.39E+01	-1	4
-0.290733813	56	1.39E+05	-0.171510586	56
0.084418973	7	9.79E-01	-0.234856032	7
0	6	1.25E+00	0	6
0	4	1.03E+00	0	4
0	6	1.25E+00	0	6
0	3	9.29E-01	-0.017801389	3
-0.424161355	13	3.79E+01	-0.099681744	13
0	3	9.29E-01	0.624209045	3
0.159721303	3	6.16E-01	-0.141264003	3
-0.804792162	6	2.50E+01	-0.042371674	6
-0.960548954	12	7.34E+02	-0.294796135	12
-0.220841944	6	2.85E+00	-1	6
-1	22	1.45E+05	-0.47687557	22
-1	9	5.73E+02	-0.35804934	9
-0.86601631	9	1.14E+02	0.608370658	9
0.258756437	10	4.80E-01	0.021761939	10
0.703020818	33	9.56E-04	1	33
0.134475656	13	1.06E+00	0.061932615	13
-0.575469219	5	7.74E+00	0.392425421	5
-0.365730532	9	1.00E+01	0.338706922	9
0	4	1.03E+00	0	4
0.87692082	20	1.78E-03	1	20
-0.870080829	7	4.91E+01	-0.912866293	7
0.26110991	3	4.75E-01	0.025305173	3
0.453894964	17	1.03E-01	1	17
-0.054850207	4	1.21E+00	-1	4
-0.569544363	4	5.53E+00	-0.157534975	4
0.441736809	2	3.19E-01	0.344164416	2
0.173045907	1	5.57E-01	0.133354309	1
-0.115892583	8	2.57E+00	0.29851257	8
-0.477194033	7	9.80E+00	-0.058794139	7
0	2	8.41E-01	-0.234229972	2
0.128450151	3	6.68E-01	0.499683949	3
-0.306394295	5	3.15E+00	-0.655769962	5
0.056133327	9	1.29E+00	-0.114643076	9
-0.107100552	18	1.01E+01	0.499678472	18
-0.503165682	10	2.62E+01	-1	10

1	27	4.55E-06	2	27
0.027745867	1	7.24E-01	0.177787968	1
0.451162391	7	2.17E-01	0.541502493	7
-0.102387179	5	1.60E+00	-0.433628494	5
-0.079008741	4	1.30E+00	0.551594125	4
-0.559238226	25	3.86E+03	-0.367865563	25
-0.054208318	10	2.48E+00	0.141971289	10
-0.339996192	12	1.76E+01	-0.195989721	12
-0.006858625	16	3.57E+00	1	16
0.514811767	24	3.22E-02	0.492490303	24
0.445305517	6	2.39E-01	0.030241829	6
-0.292152649	6	3.71E+00	1	6
0.53884455	17	5.24E-02	1	17
0.437600742	18	1.09E-01	0.655109281	18
-0.277231205	2	1.54E+00	1	2
0.569298111	11	8.36E-02	0.451660772	11
2	9	6.03E-05	1	9
2	6	2.14E-04	3	6
0.201415659	7	6.06E-01	0.44313725	7
-0.375015548	9	1.05E+01	0.270568709	9
-0.12351287	4	1.48E+00	-0.423818505	4
1	12	4.67E-03	0.707660624	12
0.116899939	12	1.13E+00	0.077058442	12
0.712417251	13	2.64E-02	0.44473962	13
0.091665918	15	1.59E+00	0.880119848	15
0.167164106	42	2.44E+00	0.815602418	42
0.87905311	17	3.54E-03	2	17
0.457007036	45	1.23E-02	0.323634597	45
-0.782320826	3	6.96E+00	-0.564111924	3
0.798401342	5	7.89E-02	0.327453118	5
0.356004684	4	3.58E-01	0.121077415	4
0.901190043	6	4.38E-02	0.997062298	6
-0.24854878	14	1.50E+01	0.337920298	14
-0.025261351	1	7.97E-01	-0.083262892	1
-0.108496738	11	3.80E+00	0.196038604	11
-0.036984474	2	9.12E-01	-0.060363081	2
-0.465028717	15	8.57E+01	0.124466678	15
0.430651028	8	2.22E-01	0.998054091	8
-0.24968328	11	8.41E+00	0.392015281	11
0.193148051	9	6.60E-01	0.481982731	9
0.979840902	7	2.49E-02	1	7
-0.13243193	10	3.74E+00	0.437182369	10
-0.063276739	2	9.66E-01	-0.060003159	2
0	1	7.61E-01	0	1
-0.394130624	13	3.13E+01	-0.210895446	13
-0.399904523	24	5.21E+02	-0.039006569	24
0.685857282	25	4.46E-03	0.999204338	25

-0.72276362	2	4.10E+00	0.3002584	2
0.473982182	19	7.45E-02	1	19
-0.519787316	11	3.85E+01	-0.008638626	11
-0.072149765	4	1.27E+00	0.1109144	4
-0.121697096	7	2.28E+00	0.071859125	7
0.337625817	6	3.57E-01	0.203155232	6
0.639712804	10	6.50E-02	-0.272735042	10
-0.712262578	16	7.30E+02	-0.257474362	16
-0.007263388	9	1.75E+00	0.012121841	9
0.080398601	14	1.61E+00	0.28645814	14
0.326307187	20	2.62E-01	0.18964407	20
0.050590717	18	2.72E+00	0.875587271	18
0.86224476	18	3.21E-03	2	18
1	4	2.01E-02	1	4
0.182398824	7	6.55E-01	0.266332805	7
2	17	9.21E-06	3	17
0.272854453	6	4.54E-01	0.141962897	6
-0.094693058	10	3.07E+00	-0.260499461	10
0.020588016	1	7.34E-01	-0.033982096	1
0.350913774	29	1.54E-01	0.664852113	29
-0.162022691	6	2.29E+00	0.159979815	6
0.248390108	5	4.95E-01	0.234745285	5
0.421615867	4	2.95E-01	-0.105330519	4
-1	7	1.90E+02	-0.543954773	7
0.650233755	36	1.28E-03	0.794956959	36
0.200059398	1	5.30E-01	0.035995012	1
-0.435876449	4	3.72E+00	-0.301319422	4
2	18	6.64E-06	1	18
0.437505534	99	4.60E-04	0.808568266	99
0.836776852	15	7.69E-03	2	15
0.697554456	8	6.70E-02	0.612422795	8
0.198416116	22	8.76E-01	0.330283793	22
0.181842117	17	8.87E-01	0.89505852	17
0.384392074	5	3.14E-01	0.112596463	5
0.398627519	11	2.18E-01	0.381875877	11
0.0495481	19	2.97E+00	0.432914507	19
0.506087535	118	5.25E-06	0.675170199	118
-0.041651005	1	8.21E-01	-0.022491244	1
0.446820179	57	6.33E-03	0.668560394	57
1	5	1.57E-02	2	5
0.156128202	5	6.73E-01	0.524167647	5
-0.407374163	5	4.42E+00	-0.025734466	5
-0.008004616	10	1.95E+00	-0.140888769	10
0.578541007	4	1.86E-01	-0.29697881	4
-0.078102918	4	1.29E+00	0.163596411	4
0.405060487	11	2.11E-01	0.467263673	11
0.479970742	17	8.36E-02	0.990098384	17

-0.08132926	13	4.23E+00	0.143622195	13
-0.669785057	11	8.95E+01	-0.833042006	11
-0.577040357	13	1.01E+02	0.661076313	13
-0.080666013	13	4.21E+00	0.69264086	13
0.266959193	10	4.60E-01	-0.336634315	10
0.020901409	4	9.65E-01	-0.143903882	4
-0.051154013	6	1.52E+00	0.787902365	6
-0.195862677	21	3.55E+01	0.31137501	21
-0.019804836	1	7.89E-01	-8.84E-05	1
2	35	1.64E-09	1	35
0.528199051	15	7.00E-02	0.859045747	15
0.192623555	12	7.15E-01	0.405778025	12
0.761331034	19	6.14E-03	1	19
0.507122103	6	1.90E-01	2	6
-0.364074758	7	6.16E+00	-0.529403597	7
-0.038934834	19	6.41E+00	0.364575816	19
0.252925812	11	4.96E-01	0.727054424	11
0.007518577	2	8.27E-01	0.118920685	2
-0.078829333	15	5.40E+00	0.070133555	15
-0.268847352	13	1.40E+01	0.25328037	13
-0.012239843	2	8.64E-01	-0.102380854	2
-0.302626838	21	9.75E+01	0.244972878	21
2	14	2.19E-07	2	14
0.084525587	19	2.19E+00	1	19
0.116546959	1	6.17E-01	-0.029533652	1
-0.386064518	2	1.96E+00	-0.660350362	2
0.910879365	22	7.95E-04	1	22
-0.06653186	6	1.60E+00	-1.97E-05	6
0.70405758	15	1.99E-02	0.588556839	15
-0.08886257	8	2.28E+00	0.308356904	8
0.031958233	10	1.58E+00	1	10
-0.44996375	12	3.41E+01	-0.792377627	12
-0.420679945	4	3.56E+00	-0.151868729	4
0.951664083	10	1.26E-02	0.821040052	10
-0.39307074	8	8.91E+00	0.313178267	8
0.162165455	11	8.27E-01	-0.0405596	11
0.688791191	7	8.20E-02	0.958670149	7
-0.118875005	9	3.01E+00	-0.854764644	9
0.414806361	12	1.88E-01	0.499462271	12
2	7	5.12E-05	3	7
3	8	5.38E-06	4	8
1	7	3.39E-03	2	7
3	63	2.88E-27	3	63
-0.313080187	4	2.59E+00	0.600245603	4
0.662146961	9	6.73E-02	0.407226795	9
2	3	1.72E-02	0.418462282	3
-0.424996048	16	8.36E+01	-0.345508449	16

0.012053023	5	1.09E+00	0.938211358	5
-0.526934238	12	5.41E+01	-0.631874728	12
-0.079725422	9	2.49E+00	-0.072077908	9
0.791884013	26	1.14E-03	1	26
1	12	7.19E-04	0.970886416	12
-0.404131588	2	2.04E+00	-2	2
0.199967472	8	6.24E-01	0.357883073	8
0.56719331	32	7.23E-03	0.679197032	32
0.758119454	37	2.06E-04	0.964057777	37
2	45	9.06E-12	2	45
0.189856306	8	6.53E-01	0.939758989	8
-0.393326156	10	1.47E+01	-0.786114658	10
0.116101861	13	1.20E+00	-0.16163033	13
0.123393722	7	8.34E-01	0.099925153	7
-0.089697818	3	1.17E+00	0.405274106	3
-0.11618086	5	1.67E+00	0.269245994	5
-0.821494674	11	2.10E+02	-1	11
0.213413173	11	6.20E-01	-0.158146971	11
0.254260098	3	4.83E-01	-0.607916917	3
0.104905353	3	7.09E-01	0.005235885	3
0	1	7.61E-01	0	1
-0.004280124	11	2.11E+00	0.620678687	11
-0.10979341	5	1.64E+00	-0.283352161	5
-0.510024446	11	3.64E+01	-0.268069368	11
-1	6	6.14E+01	-0.712619303	6
-0.274498919	7	4.27E+00	-0.346426681	7
-0.63810099	7	1.90E+01	-0.239289718	7
-0.350494941	6	4.62E+00	0.093905056	6
-0.010117093	14	2.98E+00	-0.0406527	14
-0.083467655	1	8.86E-01	-6.53E-05	1
0.123174486	31	2.95E+00	0.383101622	31
-0.449025412	2	2.25E+00	0.235515682	2
0.316382692	7	3.78E-01	0.049493163	7
-0.104618898	3	1.22E+00	-0.098069125	3
-0.407686459	9	1.23E+01	-0.348753468	9
1	15	1.71E-04	2	15
0.962142839	5	4.57E-02	0.325049775	5
0.218718581	7	5.64E-01	0.703669878	7
-0.245214031	7	3.78E+00	-0.122811901	7
0.106651766	6	8.43E-01	-0.533987211	6
-0.086688325	16	6.52E+00	0.290170148	16
-0.568848952	11	5.07E+01	-0.109723602	11
1	29	3.10E-06	2	29
0.379238141	12	2.33E-01	1	12
-0.323563207	2	1.71E+00	-0.505672448	2
-0.457091017	5	5.22E+00	-0.306997186	5
0.12641415	11	1.01E+00	0.530696486	11

0.903155958	7	3.40E-02	0.52347114	7
-0.80411366	5	1.66E+01	-0.167074484	5
-0.366437145	3	2.39E+00	-0.066199336	3
-0.520059746	4	4.78E+00	-0.633651126	4
-0.600695426	6	1.17E+01	-0.395938947	6
-0.682967882	9	4.69E+01	0.095132732	9
1	43	6.55E-07	1	43
-0.019102182	1	7.88E-01	0	1
0.01378678	13	2.30E+00	-0.376891646	13
-0.014705269	2	8.69E-01	-0.091137905	2
-0.557932082	7	1.37E+01	-0.840707643	7
0.601127944	9	9.06E-02	1	9
0.207901485	14	6.79E-01	0.57889188	14
-0.054841696	17	5.79E+00	0.294987321	17
0.266464289	22	4.49E-01	0.80719925	22
-0.194839763	4	1.83E+00	1	4
0.192547104	10	6.79E-01	0.95277947	10
-0.074701748	39	1.14E+02	-0.229866209	39
0.40520024	27	8.70E-02	0.855534451	27
0.586713174	27	1.03E-02	1	27
-0.526114879	2	2.67E+00	-0.259938376	2
0.125293885	8	8.72E-01	0.712939655	8
0.388099209	3	3.42E-01	0.563879215	3
-0.265752397	21	6.88E+01	-0.085357902	21
-0.163747166	13	7.17E+00	-0.758812626	13
-0.077625233	9	2.46E+00	-0.115979658	9
0.186435738	2	5.59E-01	0.696171805	2
0.643574866	12	4.75E-02	0.755447849	12
-0.184511572	13	8.19E+00	0.226261116	13
0.20666889	16	7.14E-01	-0.162232792	16
-0.073262823	6	1.65E+00	-0.014030302	6
0.048565241	5	9.64E-01	-0.03508992	5
0.141420876	21	1.47E+00	0.561374751	21
0.025778695	10	1.63E+00	0.16844564	10
-0.390272658	8	8.80E+00	-0.647767062	8
-0.117553444	5	1.68E+00	-0.797965017	5
-0.140823623	25	3.90E+01	0.033526619	25
0.645836487	6	1.13E-01	1	6
-0.878229655	8	7.85E+01	-0.456733009	8
-0.646442773	4	6.94E+00	-0.821633037	4
-0.296752835	11	1.10E+01	0.776821572	11
-0.123847301	7	2.30E+00	-0.778107544	7
-0.220393878	17	2.15E+01	0.041913478	17
0.886843429	12	1.10E-02	0.514868792	12
1	14	6.99E-04	1	14
0.054897249	20	3.07E+00	0.72154651	20
-0.677009585	6	1.56E+01	-0.28708755	6

0.427198269	8	2.25E-01	0.831726309	8
0.27774568	7	4.43E-01	-0.191343467	7
1	6	8.56E-03	0.787433929	6
-0.141221929	7	2.47E+00	-1	7
-0.728839521	2	4.16E+00	-0.621885871	2
-0.629705771	3	4.70E+00	-0.794200343	3
-0.515161603	12	5.04E+01	-0.318465164	12
0	2	8.41E-01	0	2
-0.657083552	3	5.04E+00	-0.128073276	3
-0.128731621	2	1.12E+00	-0.875742066	2
0.049055591	8	1.23E+00	-0.130970233	8
0.565519267	16	4.77E-02	0.813194704	16
0.043160469	7	1.16E+00	0.806189989	7
2	5	2.57E-03	2	5
0.171586262	10	7.58E-01	0.4343317	10
-0.164506227	7	2.72E+00	-1	7
-0.162624282	6	2.29E+00	1	6
0.864651489	9	2.51E-02	1	9
0.463145245	3	2.82E-01	-0.031664434	3
-0.197713548	64	6.75E+04	-0.101357248	64
1	23	2.20E-06	1	23
0.189429156	1	5.40E-01	0.525800507	1
-0.268163946	4	2.27E+00	0.070089152	4
0.750671989	37	2.32E-04	1	37
-0.409573226	7	7.43E+00	0.248068982	7
-0.059728307	30	2.95E+01	0.105616208	30
0.161472423	2	5.90E-01	0.103996	2
-1	5	3.55E+01	-0.816617268	5
0.708354463	8	6.38E-02	1	8
-0.41193657	6	5.80E+00	-0.645714549	6
0.458434187	4	2.65E-01	0.833249305	4
-0.013143369	4	1.07E+00	-0.007048438	4
-0.001014945	5	1.14E+00	-0.156639316	5
-0.416231788	15	6.04E+01	-0.622416079	15
-0.709727034	25	2.01E+04	-0.948142707	25
0.68430845	4	1.36E-01	2	4
1	11	5.62E-03	2	11
2	2	1.31E-02	3	2
0.724860687	11	3.48E-02	1	11
0.23629636	11	5.45E-01	0.328554345	11
2	1	4.39E-02	1	1
0.990346164	8	1.80E-02	2	8
-0.190054279	5	2.14E+00	-0.268760993	5
-1	5	7.16E+01	0.776123164	5
0.285695455	13	4.05E-01	0.649887352	13
0.110659923	18	1.65E+00	-0.244491825	18
0.551888962	25	1.94E-02	0.608366526	25

-0.322559223	8	6.50E+00	0.075595591	8
0.362460486	29	1.33E-01	0.348420721	29
-0.003201271	4	1.04E+00	0.017067563	4
-0.628489274	16	3.88E+02	-0.601536095	16
-0.94307651	3	1.05E+01	-1	3
-1	8	1.53E+02	-0.588074283	8
-0.119415094	7	2.26E+00	0.06312534	7
-0.189652848	6	2.54E+00	0.852681263	6
0.222353825	7	5.56E-01	-0.130946936	7
-1	5	3.49E+01	-0.986234267	5
0.013443601	3	8.98E-01	-0.192252068	3
-0.294167308	10	8.74E+00	0.045563943	10
0.37811723	40	6.68E-02	1	40
0.233397587	3	5.10E-01	2	3
0.357526322	11	2.75E-01	0.465100608	11
-0.167312639	7	2.75E+00	-0.081609597	7
0.062354941	6	9.94E-01	-0.451391422	6
-0.057583648	6	1.55E+00	-0.204509998	6
0.197189002	31	1.10E+00	0.498229377	31
3	10	2.53E-06	3	10
-0.005903851	4	1.04E+00	-0.337134639	4
-0.880088113	13	7.00E+02	-1	13
-0.573881437	5	7.70E+00	-0.848077649	5
-0.819643609	4	1.16E+01	-0.90411162	4
0.057317775	15	2.04E+00	-0.23254126	15
-0.028058693	11	2.41E+00	0.111004705	11
2	26	2.61E-07	2	26
2	1	3.54E-02	3	1
2	1	4.56E-02	2	1
0.157420849	11	8.50E-01	-0.080426543	11
0.101266904	1	6.34E-01	-0.172750234	1
-0.085326558	2	1.01E+00	0.02931343	2
-1	9	5.11E+02	0.851726457	9
0.317144374	3	4.11E-01	-0.361253495	3
0.14896291	3	6.33E-01	0.080959507	3
0.382243008	13	2.18E-01	0.302493067	13
0.667012346	14	3.03E-02	1	14
0.247122399	11	5.13E-01	1	11
0.202454854	2	5.40E-01	0.167510655	2
0.310860812	14	3.38E-01	-0.098728036	14
-0.225519428	8	4.20E+00	-0.243959898	8
-0.170037147	2	1.22E+00	-2	2
0.048717657	12	1.70E+00	0.281561766	12
0.146884337	18	1.22E+00	0.506711432	18
0.911924849	30	1.07E-04	0.703791776	30
-0.613538475	12	9.11E+01	0.293137213	12
-0.003654019	18	4.27E+00	0.710237461	18

-0.64028668	2	3.42E+00	-0.889441511	2
-0.019465283	8	1.67E+00	0.052360221	8
0.582866008	8	1.12E-01	0.727711943	8
0.276948991	10	4.36E-01	0.177768843	10
-0.990368254	8	1.30E+02	-0.87109384	8
-0.016646877	4	1.08E+00	-0.221933934	4
-0.767777079	9	7.09E+01	-0.12987764	9
-0.845832608	2	5.37E+00	-2	2
-0.512494527	3	3.48E+00	-0.551661554	3
-0.029606226	1	8.03E-01	0	1
-0.556415826	7	1.36E+01	-0.834612994	7
-0.079205094	2	1.00E+00	-0.124525759	2
-0.160731122	1	1.02E+00	0	1
-1	3	1.41E+01	-0.668318155	3
-0.541625652	3	3.75E+00	-0.263329244	3
-0.310200639	6	3.97E+00	-0.409571857	6
0.239800829	3	5.01E-01	-0.441740085	3
0.949878106	19	1.19E-03	1	19
0.682775278	10	5.18E-02	0.97676928	10
0.199138723	15	7.38E-01	0.376267944	15
0.350907229	11	2.86E-01	0.386812079	11
0.561199101	12	7.80E-02	0.514920116	12
-0.656608441	4	7.15E+00	-0.179101486	4
0.833159311	16	6.34E-03	1	16
-0.84160357	17	2.95E+03	-0.699871143	17
0.208383329	5	5.66E-01	1	5
-0.162722334	12	6.06E+00	-0.009957948	12
0.208914974	3	5.43E-01	-0.044708129	3
0.945196437	9	1.70E-02	0.872986347	9
0.545165282	40	4.10E-03	0.554584594	40
0.143669482	3	6.42E-01	0.232674479	3
0.612117551	35	2.62E-03	1	35
0.374307035	6	3.11E-01	0.20359521	6
-0.513696051	9	2.06E+01	-0.189934393	9
1	10	7.55E-04	2	10
3	12	1.49E-07	3	12
1	22	1.35E-05	1	22
-0.000252116	1	7.62E-01	0	1
-0.400480907	11	1.97E+01	-0.126854901	11
0.343383307	14	2.71E-01	0.740879983	14
0.205593911	2	5.36E-01	-0.801206617	2
-0.45142062	16	1.02E+02	-0.098272862	16
-2	12	3.57E+05	-1	12
0.383905474	11	2.37E-01	0.276256102	11
-0.360134994	14	3.19E+01	0.096463567	14
-0.239932289	2	1.42E+00	-0.05724292	2
0.185534724	10	7.05E-01	0.926136194	10

1	5	3.89E-02	0.542206592	5
0.261503443	41	4.69E-01	0.958072759	41
2	28	1.38E-07	2	28
0.496704377	13	1.05E-01	1	13
0.39108011	12	2.17E-01	-0.588424326	12
0.106744921	14	1.35E+00	0.035106169	14
-0.964931312	10	2.95E+02	-0.592931399	10
-0.332649456	6	4.32E+00	-2	6
-0.148462752	1	9.96E-01	-0.169622156	1
1	17	1.17E-03	2	17
0.015504424	12	2.07E+00	0.353587057	12
0.107780555	12	1.19E+00	0.085676519	12
-0.187254905	3	1.50E+00	-0.081832994	3
-0.298856437	8	5.84E+00	0.332246025	8
-0.399391993	8	9.17E+00	-0.761674192	8
0.652288293	8	8.21E-02	0.447960331	8
-1	17	4.44E+05	-0.871034758	17
0.210530782	5	5.62E-01	0.130183246	5
0.438494843	6	2.45E-01	0.980789039	6
3	19	3.91E-10	3	19
2	2	2.74E-02	2	2
0.610556777	15	3.88E-02	0.948531537	15
-0.035701079	11	2.52E+00	0.294807906	11
-1	20	9.50E+04	-1	20
0.59429856	21	2.03E-02	0.605331094	21
0	2	8.41E-01	-0.035485998	2
-0.318122983	7	5.10E+00	0.115408368	7
0.644634686	11	5.47E-02	0.648905985	11
-0.568089745	11	5.05E+01	0.065330638	11
0.266064294	14	4.58E-01	0.355745081	14
-0.01361685	15	3.39E+00	-0.462272039	15
0.067224219	9	1.22E+00	-0.246507222	9
0.114545671	12	1.14E+00	0.297026062	12
-0.027627227	7	1.55E+00	0.107530445	7
0.383190199	35	7.75E-02	0.366179643	35
0.580099028	81	1.53E-05	1	81
0.256956223	10	4.84E-01	0.268845631	10
0.182111803	3	5.82E-01	0.520964338	3
0.007897121	25	7.62E+00	0.16269312	25
-0.64157222	16	4.28E+02	-0.487686584	16
-0.157374197	8	3.10E+00	0.098357886	8
0.082774711	8	1.05E+00	0.342656143	8
0.388389574	11	2.31E-01	0.457650757	11
0.259052794	15	4.81E-01	0.583951842	15
0.309242047	20	3.06E-01	0.607352353	20
0.07525731	3	7.66E-01	0	3
0.818429778	32	2.34E-04	0.905172258	32

0.152918427	13	9.46E-01	1	13
2	7	8.18E-05	3	7
2	13	8.06E-06	3	13
0.306994584	13	3.53E-01	-0.597447294	13
1	16	9.93E-05	2	16
0.700398688	85	1.59E-07	1	85
2	55	3.15E-13	2	55
-0.175482937	14	9.13E+00	0.310300564	14
0.274695384	8	4.46E-01	-0.513767179	8
0	3	9.29E-01	-0.007817715	3
0.294059592	5	4.25E-01	0.043298354	5
-0.677669119	4	7.61E+00	-0.155403794	4
0.603621907	11	6.89E-02	0.088504765	11
0.030853541	2	7.86E-01	0.308855612	2
0.557559949	8	1.25E-01	0.368142493	8
0.070256921	4	8.34E-01	1	4
-0.284732405	6	3.61E+00	-0.159089672	6
0	2	8.41E-01	-0.103458077	2
-0.057784285	1	8.45E-01	-0.142700825	1
-0.802617507	5	1.65E+01	-0.386578874	5
0.750523999	11	3.01E-02	1	11
0.586866361	11	7.57E-02	0.395804462	11
0.524937928	8	1.45E-01	0.919712604	8
0.236273637	7	5.25E-01	0.612793658	7
0.631029798	14	3.86E-02	0.857092487	14
0.077227028	11	1.33E+00	0.504828889	11
2	31	4.72E-13	3	31
0.091621374	4	7.83E-01	1	4
0.0426177	6	1.07E+00	-0.018503026	6
2	19	1.79E-09	3	19
0.020970578	14	2.41E+00	0.161551637	14
0.715027561	2	1.75E-01	-0.365151717	2
1	8	1.19E-02	0.111477423	8
1	7	2.20E-02	0.983306894	7
0.058666404	8	1.18E+00	-0.211724247	8
-0.36036484	2	1.85E+00	0.399765951	2
-0.494908136	11	3.35E+01	0.14406376	11
0.298466559	10	3.90E-01	0.59273453	10
0.22270602	9	5.72E-01	0.539277494	9
0.53917014	6	1.69E-01	0.090078947	6
-0.781169174	2	4.66E+00	-1	2
0.014818525	3	8.95E-01	0.038546147	3
-0.153055617	5	1.89E+00	0.05004312	5
-0.037260462	30	2.21E+01	0.199095575	30
0.471974674	20	6.99E-02	0.67698534	20
0.960928011	11	9.21E-03	2	11
0.14469845	3	6.40E-01	-0.790522806	3

0.172876763	32	1.58E+00	0.731249042	32
0.11622208	8	9.08E-01	-0.239011613	8
-0.291233434	9	6.97E+00	0.062654265	9
1	8	1.14E-02	0.425462799	8
0.336831773	2	4.02E-01	0.320668386	2
-0.212697065	5	2.31E+00	-0.21978719	5
0.170894919	18	1.00E+00	0.42246191	18
0.095233488	20	2.13E+00	0.0905687	20
-0.087945189	5	1.52E+00	-0.259197726	5
-0.008831364	10	1.95E+00	-0.332924819	10
0.060303194	27	5.00E+00	0.708612644	27
0.376529328	27	1.22E-01	0.487487598	27
-0.015023968	14	3.08E+00	-0.106015187	14
0.636099748	36	1.59E-03	0.911985984	36
-0.039538649	7	1.63E+00	-0.076849629	7
0.190055009	7	6.35E-01	-0.147085757	7
-0.821348165	7	4.02E+01	0.320899085	7
-1	8	4.85E+02	0.203530379	8
-0.703245339	2	3.93E+00	0.190622366	2
0.039797255	11	1.65E+00	-0.072616073	11
-0.195899187	10	5.22E+00	-0.180363985	10
0.592133283	3	2.02E-01	0.637848844	3
0.104143053	20	1.96E+00	-0.084351053	20
0.120434211	5	7.59E-01	-0.188659712	5
0.328537324	11	3.24E-01	0.199720109	11
0.490006545	12	1.20E-01	0.264450063	12
-0.590969216	3	4.25E+00	0.22413781	3
0.130142572	3	6.65E-01	0.609443178	3
0.270612173	17	4.39E-01	0.144795266	17
-0.289767615	6	3.68E+00	0.353886171	6
0.132143322	13	1.08E+00	0.242324268	13
-0.134174776	16	9.33E+00	0.371234959	16
0.376602469	20	1.66E-01	0.373639288	20
-0.389659082	88	3.77E+09	-0.45596481	88
0.787711301	7	5.47E-02	0.717980134	7
-0.304330421	4	2.52E+00	-0.100436406	4
0.71648486	4	1.23E-01	-0.647969014	4
-0.170050823	12	6.33E+00	0.450564544	12
0.093288554	18	1.91E+00	0.54929801	18
2	21	4.70E-07	2	21
-0.209214588	4	1.91E+00	0.260517138	4
-0.368023624	2	1.88E+00	0.2374673	2
-0.859381626	1	3.61E+00	-0.155000104	1
-1	6	1.54E+02	-0.962673112	6
-0.826816161	13	4.98E+02	-0.759676569	13
0.360974293	29	1.36E-01	0.056164181	29
0.672361619	1	2.25E-01	0.852650251	1

-0.398521601	1	1.57E+00	-0.656345173	1
0.135053083	2	6.26E-01	0.570003599	2
0.065464399	8	1.14E+00	-0.54181506	8
0.351080516	41	1.01E-01	0.962543905	41
-0.897704961	3	9.37E+00	0.437992109	3
0.290178632	17	3.76E-01	0.301231435	17
-0.18972432	3	1.51E+00	0.006248077	3
0.328792861	51	1.14E-01	0.401366504	51
1	7	7.54E-03	3	7
-0.810689213	9	8.73E+01	-0.865084946	9
-0.381427228	18	9.83E+01	-0.27939632	18
0.064653622	5	9.14E-01	0.602508035	5
-0.328037237	6	4.25E+00	-0.174706156	6
0.183947306	17	8.73E-01	-0.094229571	17
0.087925221	9	1.10E+00	0.637564425	9
-0.068852087	4	1.26E+00	-0.125810948	4
-0.659147678	19	1.40E+03	-1	19
-0.121739706	8	2.64E+00	0.034219433	8
0.431132081	1	3.49E-01	0.698622093	1
0.528659171	30	1.50E-02	0.743070518	30
0.545945017	19	3.99E-02	2	19
-0.072905187	11	3.11E+00	1	11
-0.464884557	6	7.06E+00	-0.168072002	6
1	12	3.90E-03	1	12
1	16	5.38E-05	2	16
-0.199303333	10	5.31E+00	0.405594774	10
0.161005739	9	7.72E-01	0.234266661	9
2	34	1.83E-10	3	34
0.178422462	13	8.04E-01	0.390304522	13
0.306799492	9	3.80E-01	0.062560373	9
-0.158757831	4	1.64E+00	0.019154377	4
-0.058615558	7	1.76E+00	0.116776592	7
0.280127268	6	4.42E-01	0.813692768	6
-0.049721926	11	2.73E+00	-0.414728015	11
-0.227338138	2	1.38E+00	-0.376256793	2
-0.701105563	15	4.65E+02	0.061784448	15
0.377313029	24	1.38E-01	0.472461786	24
0.579120552	3	2.09E-01	1	3
0.684370592	4	1.36E-01	1	4
1	12	2.49E-03	2	12
-0.265233234	4	2.25E+00	-0.080441234	4
-0.414155376	9	1.27E+01	0.058704405	9
-0.063144059	7	1.79E+00	0.340583547	7
2	16	3.14E-05	1	16
0.38895564	6	2.95E-01	0.123676817	6
-0.63904845	6	1.35E+01	0.185667691	6
0.462666088	29	3.80E-02	0.439826262	29

-0.204610743	16	1.59E+01	0.151240334	16
1	8	1.47E-02	-0.200938376	8
0.090112579	11	1.24E+00	-0.258535433	11
-0.046942832	11	2.69E+00	0.767100359	11
-0.097904807	2	1.04E+00	-0.040490235	2
-0.126590711	5	1.73E+00	0.793671471	5
1	3	3.37E-02	0.057603788	3
0.068335084	9	1.21E+00	0.264879047	9
0.241909484	4	5.02E-01	0.012521075	4
0.007549552	19	4.28E+00	0.509908351	19
-0.146770081	11	4.71E+00	-0.04604223	11
0.505745906	13	9.91E-02	-0.08380581	13
0.707477674	3	1.50E-01	-0.430825939	3
-0.387887825	26	7.53E+02	-0.266479601	26
0.885096111	17	3.37E-03	1	17
-0.365013784	26	5.81E+02	0.498142158	26
-1	2	1.12E+01	0.868709885	2
-0.022998291	9	1.89E+00	0.940632972	9
0.228837185	4	5.22E-01	0.36727616	4
-0.35491654	6	4.69E+00	-0.004225548	6
-0.529522805	6	8.98E+00	-0.377157168	6
-0.752943817	12	2.11E+02	0.394938731	12
-0.158056823	7	2.65E+00	-0.750633583	7
-0.377873282	4	3.14E+00	-0.485877322	4
-2	7	2.25E+04	-2	7
-0.018929039	12	2.55E+00	1	12
-0.321374139	6	4.14E+00	0.112890649	6
0.304638766	13	3.59E-01	0.75590257	13
0.003792794	15	2.99E+00	0.455150148	15
0.944837038	16	2.73E-03	2	16
-0.361958555	21	1.71E+02	-0.323519194	21
-0.039092128	18	5.73E+00	0.222132005	18
-1	4	3.77E+01	-2	4
-0.738612356	3	6.22E+00	-0.344195131	3
-0.572569647	2	2.95E+00	-0.900334291	2
-0.190044496	3	1.52E+00	0.160942462	3
3	20	1.24E-11	4	20
0.208762909	9	6.12E-01	0.345664019	9
0.298070004	6	4.13E-01	0.000803363	6
0.084956796	1	6.53E-01	-0.000150597	1
-0.477404048	10	2.29E+01	-0.178071148	10
-0.192638806	5	2.16E+00	-0.661785008	5
0.468642045	9	1.73E-01	-0.207048453	9
0.018516023	6	1.17E+00	-0.027867422	6
-0.372207579	6	5.00E+00	-0.054190627	6
-0.120289503	2	1.09E+00	0.65912711	2
0.809274467	20	3.28E-03	0.944163514	20

0.051639474	18	2.70E+00	-0.308727034	18
-0.290059507	13	1.61E+01	0.535560431	13
-0.177619719	13	7.83E+00	-0.246947438	13
-0.277200452	2	1.54E+00	0.034917256	2
-0.033264647	1	8.09E-01	0	1
-0.184789751	2	1.26E+00	0.427429616	2
-1	3	3.29E+01	-0.744964741	3
0.116444298	3	6.89E-01	-0.012841919	3
-1	6	3.17E+02	-0.565893872	6
-0.053671331	2	9.46E-01	0	2
0.33063322	3	3.97E-01	-0.059216889	3
-0.123667731	6	1.98E+00	0.32563022	6
0.107076159	9	1.00E+00	-0.427937213	9
-0.052421082	9	2.18E+00	-0.517102765	9
-0.074112378	5	1.45E+00	1	5
-0.10728493	5	1.62E+00	0.770398789	5
0.372381507	1	3.88E-01	0.433507227	1
0.528741684	13	8.56E-02	0.413693596	13
-0.109447217	13	5.07E+00	0.189984271	13
-0.230137354	4	2.03E+00	-0.005653849	4
-0.084743716	11	3.32E+00	0.481641082	11
-0.746087468	4	9.32E+00	-1	4
1	14	2.72E-03	0.878235428	14
1	19	1.15E-04	0.829370004	19
0.689643798	18	1.35E-02	2	18
0.401344847	7	2.67E-01	0.100611821	7
0.960014114	8	2.06E-02	0.519744849	8
-0.502137796	20	4.80E+02	-0.224086058	20
0.069704426	16	2.01E+00	0.590629121	16
-0.652583423	18	9.35E+02	-0.188120151	18
-0.203467895	13	9.24E+00	0.937991814	13
-0.431738315	20	2.54E+02	-0.12821175	20
0.118130003	7	8.53E-01	0.331969	7
0.0038752	8	1.50E+00	0.12573668	8
-0.225254121	7	3.49E+00	-0.11379908	7
-0.341491594	6	4.46E+00	-0.62524086	6
0.63740909	11	5.70E-02	0.266357584	11
0.106925336	14	1.35E+00	-0.105210753	14
-0.279594985	15	2.27E+01	-0.27377476	15
-0.122837545	3	1.27E+00	-0.150689354	3
0.837554333	4	8.63E-02	1	4
-0.290111944	9	6.93E+00	0.169704487	9
-0.07064988	2	9.82E-01	-0.030797154	2
0.422686644	5	2.77E-01	0.031836284	5
-0.148577793	3	1.36E+00	0.096741549	3
-0.457544634	1	1.74E+00	0.698622093	1
1	14	2.40E-04	2	14

0.118617871	6	8.06E-01	0.12289726	6
2	6	5.43E-04	3	6
0.22049879	18	6.63E-01	-0.286877415	18
-0.940560462	14	1.63E+03	1	14
-0.123370902	4	1.48E+00	0	4
0.913384759	18	2.10E-03	0.551303623	18
1	6	9.26E-03	0.109353139	6
0.490451472	3	2.63E-01	-0.227970997	3
0.084098058	4	8.01E-01	0.847551388	4
-0.000262904	1	7.62E-01	0.03855552	1
0.554604002	47	1.59E-03	1	47
-0.585523694	8	2.11E+01	0.165551035	8
-0.157064449	2	1.19E+00	0.497917493	2
-0.048135056	1	8.31E-01	-0.040338981	1
-0.88611154	1	3.79E+00	-1	1
-0.580039643	13	1.03E+02	-0.948794382	13
-0.041636272	8	1.84E+00	0.27293604	8
-0.01844768	1	7.87E-01	-0.030704756	1
-0.039799304	2	9.18E-01	-0.065434106	2
-0.836619809	13	5.30E+02	-0.935376439	13
0.324825484	26	2.29E-01	1	26
0.207759028	4	5.55E-01	-0.206775062	4
-0.275739567	7	4.29E+00	-0.448922526	7
-0.804388551	1	3.27E+00	-0.831694201	1
-0.659228059	6	1.46E+01	-0.563878644	6
-1	15	2.70E+04	0.284521615	15
-1	13	4.40E+03	-0.305595156	13
0.597710721	15	4.26E-02	0.31508247	15
-0.064706205	15	4.88E+00	0.52273414	15
0.383330419	9	2.62E-01	0.26625132	9
0.573314874	18	3.54E-02	1	18
0.357190965	9	2.97E-01	-0.093462756	9
0.571846839	7	1.33E-01	-0.115346342	7
0.746116091	6	7.81E-02	-0.143984525	6
1	6	8.03E-03	1	6
-0.06015224	22	1.11E+01	0.270153548	22
1	11	2.56E-03	1	11
0.467330297	5	2.38E-01	-0.081041538	5
0.322704167	33	1.99E-01	0.896751546	33
-0.507204158	7	1.11E+01	0.304285954	7
0.209580878	22	7.85E-01	0.50518652	22
2	27	6.25E-08	2	27
-0.31086774	5	3.20E+00	0.546741329	5
0.016083065	3	8.92E-01	-0.684326944	3
-0.079662111	6	1.69E+00	-0.968538099	6
2	13	1.01E-04	2	13
0.125904089	9	9.15E-01	-0.030731444	9

-0.157711612	11	5.01E+00	-0.047767658	11
-0.144512478	14	7.40E+00	-0.064227698	14
-0.205316465	10	5.48E+00	-0.547241205	10
-0.325202148	7	5.25E+00	-0.152840178	7
0.827161323	15	8.23E-03	1	15
-0.150359819	21	2.31E+01	0.208611651	21
0.394485752	13	2.02E-01	1	13
0.184945497	28	1.19E+00	0.310853929	28
-0.084768544	6	1.72E+00	0.297093707	6
0.445833917	14	1.35E-01	-0.155871071	14
0.336328404	6	3.59E-01	-0.176408828	6
0.490523856	20	5.91E-02	0.805256766	20
1	7	1.74E-02	0.965677856	7
-0.080832649	9	2.50E+00	0.496842825	9
-0.122651607	9	3.07E+00	-0.363335884	9
-0.098156806	13	4.71E+00	0.057546565	13
-0.068551038	9	2.36E+00	-0.066116907	9
-1	18	2.23E+04	-1	18
-0.256908388	9	5.90E+00	-0.174159448	9
-0.287116507	11	1.04E+01	-0.293792775	11
0.709986767	10	4.49E-02	0.937927025	10
-0.06287303	13	3.76E+00	-0.015479737	13
-0.210333142	9	4.70E+00	0.736554353	9
3	8	1.67E-06	4	8
0.235969601	53	8.12E-01	0.511719806	53
-0.198491592	15	1.27E+01	0.016087872	15
-0.34163908	2	1.78E+00	0.048698492	2
-0.796315313	8	5.44E+01	-0.061767773	8
-0.170769429	7	2.79E+00	-0.023235787	7
2	12	5.48E-05	0.988123918	12
0.060459594	4	8.59E-01	0.119166483	4
0.983618431	31	3.24E-05	2	31
0.426903115	5	2.73E-01	0.34924588	5
0.491520989	8	1.69E-01	1	8
-0.252243484	5	2.63E+00	-0.166256239	5
-0.140088768	16	9.76E+00	-0.207390924	16
0.110892318	4	7.40E-01	-0.561394159	4
-0.155308389	18	1.50E+01	0.191879192	18
-0.086560606	2	1.02E+00	0.050101856	2
-0.520832952	7	1.17E+01	0.059042155	7
0.270531981	4	4.61E-01	0.86480948	4
0.400256139	17	1.57E-01	0.441028771	17
-0.356826794	5	3.73E+00	-0.159738326	5
-0.685882296	8	3.31E+01	0.183749706	8
-0.105298271	2	1.06E+00	-1	2
-0.118219977	7	2.25E+00	-0.141123273	7
-0.031504902	4	1.13E+00	-0.052086384	4

-0.487340442	5	5.77E+00	-1	5
-0.47733454	12	4.02E+01	-0.077975017	12
0.338990879	6	3.55E-01	0.291986926	6
-0.117755418	4	1.45E+00	0	4
0.490925232	22	4.94E-02	0.846068736	22
-0.061738281	2	9.63E-01	-0.035519149	2
-0.006342064	5	1.16E+00	-0.007015896	5
0	1	7.61E-01	-0.020779426	1
0.355558505	19	2.08E-01	0.693570232	19
-0.273465219	9	6.39E+00	-1	9
-0.19701675	7	3.11E+00	-0.198016021	7
-0.110291202	14	5.87E+00	1	14
0.440506354	9	1.98E-01	-0.198719324	9
0.158696982	12	8.77E-01	-0.078234459	12
1	29	8.66E-07	2	29
0.239951724	9	5.25E-01	-0.088026424	9
-0.041349038	4	1.16E+00	0.063642977	4
-1	5	3.53E+01	0.522060703	5
-0.459143408	13	4.74E+01	0.073425707	13
0.047032215	4	8.93E-01	0.17538824	4
0.041965557	1	7.06E-01	0.169400145	1
-0.060034342	15	4.72E+00	0.494052564	15
0.674842925	16	2.09E-02	1	16
-0.320745606	2	1.70E+00	-0.316699529	2
0.134045908	15	1.18E+00	0.997176947	15
0.449009415	17	1.07E-01	0.924624717	17
-0.391465559	9	1.14E+01	0.005885619	9
0.490111247	7	1.85E-01	0.50206964	7
2	13	6.44E-05	2	13
-0.429131451	10	1.77E+01	-0.407467434	10
-0.326874287	5	3.38E+00	0.208207783	5
-0.161887648	2	1.20E+00	0.087354249	2
-0.21150092	11	6.78E+00	-0.196239035	11
0.195647654	14	7.38E-01	0.662778062	14
-0.032805358	2	9.04E-01	0.073860778	2
-1	14	6.66E+04	-0.620996706	14
-0.904037221	9	1.38E+02	-1	9
0	1	7.61E-01	0	1
0.328686419	38	1.61E-01	0.508075927	38
0.746387958	4	1.13E-01	-0.46840216	4
-0.867412888	8	7.48E+01	-0.954145803	8
0.533421513	30	1.41E-02	0.549675836	30
-0.829659685	7	4.16E+01	-0.776759599	7
-0.814340509	26	9.58E+04	-0.249312531	26
0.255723267	14	4.91E-01	0.079150597	14
0.12869181	3	6.67E-01	-0.48978892	3
-0.888630174	5	2.20E+01	-0.099707515	5

-1	3	1.84E+01	-1	3
0.294497741	8	4.08E-01	-0.000694794	8
0.012451918	21	4.96E+00	0.2083	21
-0.06328446	3	1.09E+00	-0.104459409	3
-0.22802942	8	4.25E+00	0.439586023	8
-0.216281652	6	2.80E+00	-0.306394372	6
2	27	1.10E-07	2	27
1	18	2.73E-04	1	18
0.816139476	18	4.71E-03	1	18
0.166784762	42	2.45E+00	0.433051137	42
0.034444107	5	1.01E+00	0.494822177	5
0.011517018	4	9.92E-01	-0.353685595	4
0.532170475	13	8.37E-02	2	13
-0.282306357	3	1.92E+00	-0.029191228	3
-0.209740372	8	3.92E+00	0.361339252	8
1	22	2.70E-05	1	22
0.174486693	6	6.55E-01	0.323013845	6
-0.19976259	5	2.21E+00	0.116168814	5
0.349555095	14	2.60E-01	0.599431026	14
-0.059434131	1	8.48E-01	0	1
-0.349721331	5	3.64E+00	0	5
-2	1	1.49E+01	1	1
0.202636259	2	5.39E-01	1	2
-0.237286862	2	1.42E+00	0.600228919	2
-0.070060032	1	8.64E-01	0.115113875	1
-0.075661438	4	1.28E+00	2	4
0.814879087	1	1.74E-01	2	1
0.55485907	6	1.59E-01	0.593272361	6
0.910449879	3	8.92E-02	0.431999523	3
0.509244087	5	2.07E-01	-0.038892573	5
0.596423975	22	1.75E-02	0.471945962	22
1	6	2.21E-02	0.950701998	6
0.433782397	4	2.85E-01	1	4
0.068632279	3	7.79E-01	-0.316551491	3
0.255393104	25	5.04E-01	0.726470943	25
0.206262055	6	5.82E-01	-0.290445287	6
-0.722269324	9	5.68E+01	-0.448721961	9
-0.021995737	2	8.83E-01	0	2
-0.06524739	2	9.71E-01	-1.00E-05	2
0.094520798	2	6.84E-01	-0.145880136	2
-0.758325493	4	9.66E+00	-0.059170521	4
-0.313702054	5	3.23E+00	-0.356067283	5
-0.079774441	4	1.30E+00	-0.378069649	4
-0.304317102	10	9.22E+00	-0.631727082	10
-0.058965119	3	1.08E+00	0	3
-0.000421017	3	9.30E-01	0	3
-0.133332389	4	1.52E+00	0.029757959	4

0.092957797	5	8.32E-01	0.369515969	5
-0.099640075	6	1.82E+00	0.075955479	6
0.609954041	9	8.68E-02	0.240003071	9
0.848093956	13	1.11E-02	1	13
0.142939615	23	1.58E+00	0.328902224	23
2	7	1.15E-03	2	7
-0.050386368	11	2.74E+00	0.011581363	11
0.264969595	8	4.66E-01	0.211887003	8
0.224734036	2	5.14E-01	0	2
-0.56922927	5	7.58E+00	-0.447249518	5
0.422218821	32	5.24E-02	0.253722669	32
-0.017821022	1	7.86E-01	-0.058784672	1
-0.386435936	6	5.28E+00	-0.093392416	6
-0.173098933	42	9.31E+02	0.279826566	42
-1	8	1.85E+02	0.087807026	8
-0.276082332	8	5.27E+00	0.541863206	8
0.632229684	3	1.83E-01	0.065633268	3
-0.23033809	8	4.30E+00	-0.443942845	8
0.880387802	7	3.74E-02	0.126569429	7
-0.350639546	12	1.88E+01	0.114931154	12
-0.228901567	12	9.02E+00	0.126961722	12
0.125711197	7	8.26E-01	-0.406197407	7
-0.018716023	7	1.49E+00	-0.791615519	7
0.56273992	3	2.18E-01	-0.133561894	3
0.511462713	6	1.87E-01	0.130735741	6
0.154977277	7	7.33E-01	0.372828466	7
0.13506242	10	9.19E-01	-0.159044055	10
0.169889211	23	1.20E+00	0.230421555	23
2	1	3.29E-02	2	1
-0.071630487	33	5.04E+01	-0.128774532	33
-0.035878797	7	1.60E+00	0.012674073	7
-0.118510989	23	2.29E+01	0.236202514	23
-0.426347014	3	2.78E+00	-0.180172457	3
0.769232089	25	1.79E-03	0.984561354	25
0.024408643	1	7.29E-01	-0.083262892	1
-0.967171799	3	1.12E+01	-0.28405223	3
-0.531293173	3	3.65E+00	-1	3
0.370918573	73	1.88E-02	0.515665541	73
-0.232991808	7	3.60E+00	0.27340124	7
-0.615777224	5	8.86E+00	-0.976446576	5
0.152805021	8	7.71E-01	0.71550045	8
0.147464915	9	8.24E-01	-0.309341355	9
0.169175782	12	8.24E-01	-0.066594738	12
0.979515676	9	1.44E-02	0.944775748	9
0.838442773	14	9.47E-03	2	14
-0.173656063	38	4.84E+02	0.164527608	38
0.099734054	2	6.76E-01	0.068796822	2

0.237672628	14	5.55E-01	0.649801659	14
0.115553744	1	6.18E-01	0.066114177	1
1	29	4.59E-07	2	29
-0.030551996	7	1.57E+00	-0.049444843	7
-0.502501034	6	8.12E+00	-0.381960905	6
-0.107885604	13	5.02E+00	-0.243421135	13
-0.128430054	2	1.11E+00	-8.44E-05	2
0.330746596	22	2.39E-01	0.205676701	22
2	10	2.07E-05	3	10
0.191115528	6	6.15E-01	0.300309198	6
-0.181719037	3	1.48E+00	0.208263908	3
-0.05448683	20	8.28E+00	0.580032681	20
0.472711928	11	1.44E-01	0.911499242	11
-0.505684628	15	1.15E+02	-0.429154942	15
-0.438448826	2	2.20E+00	-0.529400006	2
-0.718596952	7	2.64E+01	-0.07567749	7
-0.271674444	8	5.17E+00	-0.003490034	8
-0.086100671	8	2.25E+00	0.054009533	8
4	11	1.76E-09	5	11
-0.097460295	14	5.38E+00	0.084713976	14
-0.983276526	3	1.17E+01	-2	3
0.084981162	9	1.12E+00	0.121784374	9
-0.117061462	4	1.45E+00	-0.413640993	4
0.289348679	64	2.26E-01	0.485786726	64
-0.218496791	2	1.36E+00	-0.749094136	2
0.054933762	6	1.02E+00	0.215274152	6
0	3	9.29E-01	0.027870625	3
0.207864038	5	5.67E-01	0.938927601	5
0.339950186	9	3.23E-01	2	9
-0.518449548	6	8.62E+00	0.396592152	6
-0.150445383	4	1.60E+00	0.551336601	4
-0.809327668	15	1.01E+03	-0.606189015	15
-0.19484709	5	2.17E+00	1	5
-0.234179114	5	2.48E+00	-0.375772493	5
0.367967075	30	1.19E-01	0.560576091	30
0.069083713	3	7.78E-01	0.385828421	3
-0.910450631	6	3.71E+01	0.335944422	6
0.807412046	11	2.19E-02	1	11
-0.269973259	8	5.13E+00	0.043902422	8
-0.054191351	2	9.47E-01	0	2
-0.171107836	14	8.86E+00	-0.501265494	14
-0.02605198	16	4.13E+00	0.000116696	16
-0.941188048	1	4.18E+00	-0.048692135	1
-0.081996231	9	2.52E+00	0.151827999	9
1	29	2.04E-05	2	29
0.880239559	1	1.55E-01	1	1
0.124255496	5	7.49E-01	0.765362701	5

-0.962376874	15	3.02E+03	-0.76918394	15
-0.373434253	4	3.10E+00	-0.882771346	4
0.085751157	23	2.84E+00	0.510152735	23
-0.468903572	10	2.19E+01	-0.212157691	10
-0.077340397	2	9.97E-01	0.025238554	2
0.024935225	4	9.54E-01	-0.042769157	4
-0.405467478	5	4.39E+00	-0.455345616	5
0.330738094	9	3.38E-01	0.684000815	9
-0.165297393	6	2.32E+00	0.500952094	6
0.728588073	8	5.83E-02	0.394140121	8
0.018741458	20	4.26E+00	-0.166598356	20
-0.29277354	10	8.68E+00	0.28694936	10
0.120726835	3	6.81E-01	-0.311878409	3
1	22	4.07E-05	2	22
0.019486309	10	1.68E+00	-0.226753235	10
-0.930670498	9	1.57E+02	0.437253977	9
-0.406023235	12	2.62E+01	0.281670618	12
0.303015958	5	4.12E-01	0.074117829	5
-0.389236759	2	1.97E+00	0.58950217	2
-0.373690965	2	1.91E+00	-0.105337997	2
-0.976110971	5	2.95E+01	-2	5
0.425917358	6	2.57E-01	-0.047379468	6
0.605448093	9	8.87E-02	1	9
3	6	1.08E-04	3	6
2	8	9.05E-04	2	8
0.537604511	11	9.99E-02	0.631150304	11
-0.313545803	20	8.68E+01	0.088500108	20
0.23096336	5	5.25E-01	-0.386928616	5
0.152971004	6	7.09E-01	-0.327699745	6
0.427203208	42	2.59E-02	0.632640179	42
-0.124563132	7	2.31E+00	-0.603943389	7
-0.296291705	4	2.46E+00	-0.422243139	4
-0.003836294	2	8.48E-01	-0.294222823	2
-0.47953347	1	1.81E+00	-2	1
-0.876290725	3	8.87E+00	-0.455947918	3
0.393524132	10	2.37E-01	0.749140799	10
-0.265632393	11	9.20E+00	0.24982301	11
0.337649411	14	2.82E-01	0.015514653	14
0.235225749	6	5.22E-01	-0.227452725	6
0.323121719	10	3.42E-01	0.339115408	10
-0.57718814	11	5.32E+01	-0.515057765	11
-0.055378155	24	1.35E+01	0.103794233	24
0.436466854	19	1.03E-01	1	19
0.796523531	6	6.47E-02	1	6
0.48356647	3	2.68E-01	0.546923383	3
0.813321186	22	2.07E-03	0.668691997	22
0.484634725	8	1.74E-01	0.191791562	8

-0.384328668	3	2.50E+00	0.139644935	3
0.092494947	11	1.22E+00	0.741000344	11
-0.110146057	3	1.23E+00	0	3
-0.305913433	2	1.64E+00	-0.276284972	2
0.127437553	7	8.21E-01	-0.599450314	7
0.428391138	4	2.89E-01	-0.043176256	4
0.777102801	3	1.26E-01	0.641310751	3
-0.3845419	10	1.40E+01	-0.536567769	10
-0.396287364	2	2.01E+00	0	2
-0.509939644	19	3.84E+02	0.00341945	19
-0.287506441	1	1.28E+00	-0.000156906	1
4	2	8.22E-05	6	2
0.388578229	6	2.95E-01	0.014757033	6
0.855921556	9	2.62E-02	2	9
0.142668688	5	7.04E-01	-0.050701839	5
-0.484871826	9	1.79E+01	0.103381042	9
0.837583825	16	6.13E-03	2	16
3	10	1.98E-06	2	10
1	15	9.45E-04	2	15
1	13	1.65E-03	1	13
-0.688916134	5	1.13E+01	-1	5
0.156390667	5	6.73E-01	-0.582635488	5
0.568620986	7	1.34E-01	-0.111467788	7
2	2	1.16E-02	0.83649668	2
0.709978813	16	1.60E-02	1	16
-0.08652308	4	1.33E+00	0.023128789	4
-0.102294191	4	1.39E+00	-0.003185588	4
0.473352377	17	8.81E-02	0.853528833	17
0.389724779	21	1.40E-01	0.579086773	21
-0.781678736	11	1.68E+02	-0.555524872	11
-0.271862297	5	2.81E+00	0.212623382	5
-0.073743794	5	1.45E+00	0.082681239	5
0.502551649	13	1.01E-01	0.343622088	13
0.823717363	12	1.61E-02	2	12
-0.21359961	8	3.99E+00	0.131664468	8
-1	7	1.84E+02	-2	7
-0.288335292	3	1.95E+00	0.046008514	3
-0.523297743	26	3.51E+03	-0.62323272	26
0.146536784	6	7.26E-01	0.16559836	6
-0.229585986	3	1.68E+00	-1	3
0.23435067	7	5.29E-01	-0.177710311	7
-0.0003439	2	8.42E-01	0	2
-0.254023156	2	1.47E+00	-0.884798494	2
0.165961092	2	5.85E-01	-0.821660255	2
-0.763879208	3	6.64E+00	-0.224339466	3
-1	2	2.07E+01	-1	2
-2	2	9.53E+01	-2	2

-0.103665541	2	1.06E+00	-0.105347742	2
0.874440011	19	2.30E-03	1	19
0.327597985	5	3.80E-01	-0.402976655	5
0.385194449	18	1.69E-01	1	18
0.001562379	21	5.50E+00	0.878526229	21
1	22	2.16E-05	2	22
-0.220361824	3	1.64E+00	-0.413313862	3
-0.418196423	6	5.94E+00	-0.397845421	6
-0.072639024	10	2.73E+00	0.117846988	10
-0.265393828	5	2.75E+00	0.996623507	5
-0.226316057	8	4.22E+00	-0.93995649	8
1	7	1.29E-02	0.660739722	7
-0.326495563	5	3.37E+00	0.018533156	5
-0.420591559	4	3.56E+00	0.03742085	4
-0.227959537	4	2.01E+00	1	4
0.4844739	4	2.45E-01	0.014268309	4
1	16	3.89E-04	2	16
0.083681299	5	8.58E-01	0.000121933	5
1	4	1.46E-02	1	4
0.317481297	28	2.39E-01	0.290215913	28
0.005945214	20	4.79E+00	-0.247526272	20
0.990965005	5	4.15E-02	-0.061024996	5
-0.331479723	7	5.39E+00	-0.635161365	7
0.3984085	12	2.08E-01	0.692780284	12
-1	10	3.83E+02	0.317185801	10
-0.368138003	4	3.05E+00	-0.20976454	4
-0.513175501	1	1.93E+00	-1	1
-0.055590638	1	8.42E-01	0	1
-0.835495609	2	5.25E+00	-0.799229267	2
-0.714934968	2	4.03E+00	-1	2
-0.31224009	3	2.08E+00	-0.179036272	3
0.620893642	4	1.64E-01	1	4
0.494033826	11	1.28E-01	0.522563717	11
-0.348724471	2	1.81E+00	0.683614064	2
1	4	2.44E-02	2	4
-0.313310477	15	2.89E+01	0.043851032	15
-0.2374693	5	2.51E+00	-0.755303387	5
0.401049628	6	2.82E-01	0.10273587	6
-0.605372289	8	2.31E+01	-0.174487807	8
0.153954627	23	1.41E+00	-0.451661062	23
0.743572012	5	9.48E-02	-0.102156954	5
0.097987184	9	1.05E+00	0.107847176	9
0.016023903	8	1.42E+00	0.45946098	8
2	5	2.19E-03	1	5
-0.278600683	8	5.33E+00	0.225433983	8
-0.000477225	2	8.42E-01	0.556731138	2
2	22	7.04E-09	3	22

1	33	1.06E-07	2	33
-0.579675266	8	2.06E+01	-0.166704353	8
-0.319957915	13	1.95E+01	0.266129533	13
-0.081766273	1	8.83E-01	-3.83E-05	1
-0.293511055	4	2.44E+00	-0.213639621	4
0.969953762	16	2.26E-03	0.26213396	16
4	3	1.63E-05	3	3
0.583123043	10	8.75E-02	0.455297343	10
0.148419554	2	6.08E-01	0.227986209	2
-0.372010139	15	4.40E+01	-0.428269541	15
-0.747878552	3	6.37E+00	-0.967023037	3
-0.438596931	2	2.20E+00	-0.171685914	2
-0.177916619	3	1.47E+00	1	3
-0.155416316	3	1.39E+00	-0.107573277	3
-0.0204823	2	8.80E-01	0	2
-0.132639538	4	1.52E+00	-0.057617448	4
-0.018423962	1	7.87E-01	0.030662612	1
0.559908275	20	3.15E-02	0.680840276	20
-0.463709004	7	9.28E+00	-0.31451453	7
0.58587788	10	8.62E-02	-0.049053984	10
-0.10008035	4	1.38E+00	0.62115843	4
0.346671479	24	1.91E-01	1	24
2	2	1.44E-02	2	2
1	23	2.66E-05	2	23
0.812720465	9	3.24E-02	0.452346536	9
-0.310508235	7	4.95E+00	-0.023463409	7
-0.332634679	9	8.53E+00	0.037849107	9
0.016075948	10	1.72E+00	-0.139053259	10
1	9	2.96E-03	2	9
-0.339235139	14	2.77E+01	-0.450063899	14
-1	4	2.30E+01	-2	4
0.216845636	3	5.32E-01	-0.117482572	3
0.000279478	2	8.41E-01	-0.035915914	2
0.357259027	2	3.84E-01	-0.530209675	2
-0.753385279	2	4.39E+00	-1	2
-0.785777723	16	1.27E+03	-0.986419741	16
-0.319468526	17	4.71E+01	0.051811583	17
-0.82280299	2	5.11E+00	-1	2
0.106673493	20	1.92E+00	-0.266085941	20
-0.403005853	14	4.27E+01	-0.944120132	14
0.192488516	11	6.97E-01	-0.010822067	11
0.678467431	9	6.22E-02	0.372304346	9
0.767484769	79	5.24E-08	0.979116239	79
-0.257397884	7	3.98E+00	0.529407197	7
-0.046576694	16	4.82E+00	0.43451487	16
0.137634746	5	7.16E-01	0.027555869	5
0.543233575	25	2.14E-02	0.912927841	25

2	8	8.48E-04	1	8
-0.432113226	6	6.25E+00	-0.020931695	6
-0.325224311	2	1.72E+00	0	2
-0.025413781	1	7.97E-01	0.0421743	1
-0.133681536	3	1.31E+00	-0.699391135	3
-0.821300174	3	7.70E+00	-0.463094049	3
-0.053046603	2	9.45E-01	-0.217008636	2
-0.44481824	5	5.01E+00	0.196670755	5
-0.410676538	5	4.47E+00	0.051120754	5
-0.049824255	3	1.06E+00	-0.00294776	3
-0.627059776	13	1.39E+02	-0.954181695	13
-0.079867606	2	1.00E+00	-0.002564893	2
-0.116600101	8	2.58E+00	-0.603970337	8
0.465799531	40	1.54E-02	0.442518327	40
-0.489148316	3	3.27E+00	0.101392545	3
-0.14239301	16	9.93E+00	-0.359880199	16
0.204984371	10	6.36E-01	0.474332519	10
-0.517370556	12	5.11E+01	-0.379582193	12
-0.456235546	2	2.29E+00	-0.566289543	2
-0.633315509	2	3.37E+00	-0.502408984	2
-0.268990888	8	5.11E+00	0.664437032	8
0.679493956	10	5.27E-02	0.870916606	10
-0.915477574	6	3.78E+01	-0.637756149	6
-1	4	2.04E+01	-0.762458579	4
-0.000262904	1	7.62E-01	-0.112857223	1
0.320366827	6	3.80E-01	0.483161892	6
0.034440578	6	1.10E+00	-0.489746389	6
0	2	8.41E-01	-0.004000161	2
-0.285703557	5	2.94E+00	-0.351078081	5
-0.173510136	19	2.06E+01	-0.443780961	19
-0.446434785	2	2.24E+00	0.119680834	2
0.011128612	6	1.20E+00	-0.525174488	6
0.781367983	14	1.39E-02	2	14
-0.078630887	13	4.16E+00	0.157952695	13
0.258920251	15	4.81E-01	0.292101316	15
-0.200768084	16	1.54E+01	-0.571448417	16
0.877162699	2	1.23E-01	1	2
1	55	2.26E-08	1	55
-0.074348895	6	1.65E+00	0.056689768	6
-0.345311974	7	5.71E+00	0.132946935	7
0.427815269	96	8.15E-04	0.506337312	96
0.11696734	1	6.16E-01	-4.69E-05	1
-0.174309186	2	1.23E+00	-0.224023886	2
0.133234154	7	8.01E-01	0.161337529	7
0.143522527	9	8.40E-01	0.038462484	9
0.747766272	7	6.44E-02	1	7
1	5	1.19E-02	0.181847362	5

-0.399195904	6	5.53E+00	0.189434622	6
-0.063205161	1	8.54E-01	-0.035557437	1
-0.80892668	7	3.82E+01	-0.833732885	7
-2	6	5.92E+02	-2	6
-0.735611864	8	4.14E+01	-0.800589757	8
0.391341036	95	3.44E-03	0.68674912	95
0.088083791	1	6.49E-01	0.183232131	1
-0.624594953	12	9.74E+01	-1	12
-0.028223803	2	8.95E-01	0.000262917	2
0.333556376	24	2.19E-01	0.736784474	24
1	3	6.14E-02	-0.100367318	3
-0.617199666	7	1.74E+01	-0.678370255	7
0.638557719	35	1.77E-03	0.946405009	35
-0.203509004	7	3.19E+00	-0.202480651	7
0.039115864	8	1.28E+00	0.076496785	8
-0.067876449	5	1.42E+00	0.070924999	5
0.085481758	2	6.97E-01	0.317753352	2
0.002942416	3	9.22E-01	0.010037213	3
-0.117453075	9	2.99E+00	-0.067644614	9
0.832694328	22	1.71E-03	0.82496839	22
-0.626030807	6	1.29E+01	0.298639804	6
0.726834428	3	1.43E-01	-0.1363494	3
0.071211883	3	7.74E-01	0.030814195	3
-0.042977765	1	8.23E-01	-0.037020146	1
0.132710041	5	7.28E-01	0.244966807	5
1	3	4.38E-02	0.623667825	3
-0.012111215	8	1.61E+00	0.725951582	8
0.291892824	12	3.94E-01	1	12
0.991694681	13	4.43E-03	1	13
-0.646644061	2	3.47E+00	-0.801073764	2
-0.310496289	18	5.46E+01	0.501305	18
0.435678718	22	8.50E-02	0.962903015	22
-0.468605088	7	9.46E+00	0.157435219	7
0.221568291	5	5.41E-01	0.467611028	5
0.105432025	13	1.28E+00	-0.28045695	13
0.226301606	11	5.77E-01	-0.520476152	11
0.29197072	95	1.46E-01	0.583098745	95
1	10	2.19E-03	2	10
-0.126088423	5	1.73E+00	-0.169198803	5
-0.291724191	10	8.63E+00	-0.564927001	10
-0.124835742	12	4.82E+00	-0.160935338	12
-0.28986112	12	1.30E+01	0.806602436	12
0.315020913	5	3.96E-01	0.640971539	5
0.356035008	27	1.55E-01	0.432671226	27
0.50908357	4	2.28E-01	0.713364351	4
0.342890163	6	3.50E-01	-0.420977799	6
-0.040127107	13	3.25E+00	0.540821558	13

0.757010601	51	1.48E-05	0.539135754	51
-0.313942864	19	6.99E+01	-0.161820447	19
-0.02597101	22	7.96E+00	1	22
-0.56013933	10	3.53E+01	-0.338197584	10
-0.343026407	6	4.49E+00	-0.687772755	6
-0.765184902	5	1.46E+01	0.197338473	5
0.742133487	4	1.14E-01	-0.176107457	4
0.404593872	10	2.23E-01	0.090675623	10
0.72768981	5	9.99E-02	0.151494525	5
-0.73050605	8	4.05E+01	-0.438645813	8
0.010010954	1	7.48E-01	-0.017204337	1
-0.19596067	2	1.29E+00	-0.009625334	2
-0.251880417	2	1.46E+00	0	2
-0.356581492	8	7.57E+00	-0.240440357	8
-0.118477269	28	4.72E+01	0.200343358	28
-0.009779035	10	1.96E+00	0.218443023	10
0.346953067	27	1.73E-01	-0.225310422	27
0.10588388	9	1.01E+00	0.502096862	9
-0.346040939	6	4.54E+00	1	6
0.612221172	8	9.82E-02	0.093005843	8
-0.620274432	7	1.76E+01	-0.07829484	7
-0.371285013	25	4.90E+02	-0.539151843	25
-0.43871754	6	6.41E+00	-0.40315617	6
0.174821264	9	7.21E-01	0.671616265	9
-0.639701541	10	5.36E+01	0.332572534	10
1	20	1.13E-04	2	20
0.635561336	18	2.11E-02	0.252691116	18
-0.138270119	4	1.54E+00	0.04382921	4
-0.302675659	10	9.14E+00	0.26717336	10
-0.585674676	23	2.70E+03	-0.602958516	23
0.852862525	9	2.66E-02	2	9
-0.008654989	23	7.44E+00	0.69822011	23
0.792230275	16	8.63E-03	0.92623265	16
-0.319354615	21	1.14E+02	0.527464334	21
0.126154719	8	8.68E-01	-0.267857813	8
0.742559808	20	6.01E-03	1	20
0.700855549	8	6.60E-02	0.689125069	8
0.434887219	12	1.67E-01	0.827778312	12
0.03586045	12	1.84E+00	0.40224996	12
-0.052893381	18	6.42E+00	0.165253228	18
0.410170803	8	2.43E-01	0.731691463	8
0.181049927	9	7.00E-01	-0.304082871	9
-0.310108568	28	4.82E+02	0.065842495	28
-0.033270939	12	2.78E+00	-0.287878544	12
0.542840089	20	3.68E-02	0.871089502	20
0.064524667	1	6.78E-01	0.1141315	1
-0.204184179	9	4.56E+00	-0.897214791	9

0.056786561	19	2.79E+00	0.410720626	19
-0.775810021	5	1.51E+01	-0.749145008	5
-1	7	2.85E+02	-0.932407213	7
0.450150831	8	2.03E-01	-0.280527683	8
0.499591843	70	5.67E-04	0.918970348	70
1	4	5.23E-02	1	4
0.16737218	3	6.04E-01	0.825035988	3
0.504659459	4	2.31E-01	0.544265282	4
0.40055377	46	3.33E-02	0.442157332	46
0.624363629	5	1.41E-01	0.728433492	5
0.133324651	2	6.28E-01	0.131957911	2
-0.03887436	6	1.45E+00	-0.010272003	6
-0.423950569	5	4.67E+00	-0.599376285	5
2	15	6.23E-05	1	15
0.93240494	4	6.52E-02	-0.000658525	4
0.442028287	9	1.97E-01	1	9
0.171097283	6	6.63E-01	-0.103232832	6
0.011696556	9	1.60E+00	-0.083401359	9
-1	7	3.49E+02	-0.635949141	7
-0.386024432	5	4.11E+00	0.874275072	5
-0.001453486	9	1.70E+00	0.094581609	9
0.663320795	36	1.05E-03	0.941930239	36
0.967724742	7	2.61E-02	1	7
-0.477084867	14	7.05E+01	-0.502572595	14
-0.628052928	10	5.04E+01	-0.841949536	10
0	1	7.61E-01	-0.020310475	1
0	2	8.41E-01	-0.048429382	2
-0.480695241	7	9.94E+00	0.574571441	7
0.271877492	18	4.33E-01	0.427028108	18
0.180356638	9	7.02E-01	-0.243767615	9
0	1	7.61E-01	0	1
-0.32287544	31	1.10E+03	0.188781889	31
-0.502870428	4	4.54E+00	-0.884770152	4
-0.395440375	19	1.42E+02	-0.817733994	19
-0.387826886	9	1.12E+01	-0.112987842	9
0.479217217	13	1.17E-01	0.773195283	13
-0.55069881	2	2.81E+00	0.128618598	2
0.064511465	2	7.30E-01	-0.000449526	2
0.841384338	1	1.66E-01	0.256309057	1
-0.220672612	9	4.94E+00	-0.426811929	9
-0.304187746	8	5.98E+00	-0.394990588	8
-0.607535802	10	4.53E+01	0.650569702	10
-0.710239175	10	7.76E+01	-0.590902168	10
-0.575464001	13	9.97E+01	-0.175763656	13
1	6	2.78E-02	-0.305083178	6
-0.616561047	16	3.55E+02	-1	16
-0.1934373	2	1.29E+00	-1	2

-0.130476236	5	1.75E+00	-0.101987479	5
-0.325850849	3	2.15E+00	0.114759566	3
-0.492397158	8	1.39E+01	-0.426223472	8
-0.154761938	5	1.90E+00	-0.085850515	5
0.812862957	11	2.12E-02	0.764588601	11
-0.045010572	16	4.76E+00	0.485338136	16
1	22	8.06E-06	2	22
-0.47938574	13	5.40E+01	-0.418464593	13
-0.803199341	8	5.61E+01	-0.874806337	8
-0.530945366	18	3.40E+02	-0.44078942	18
-0.208873993	16	1.64E+01	0.099171307	16
0.348759718	19	2.21E-01	0.700749407	19
-0.313473901	2	1.67E+00	0.297663107	2
-0.051802202	4	1.20E+00	0.724388045	4
-0.38778489	2	1.97E+00	-0.203046661	2
-0.308576583	16	3.48E+01	0.004687875	16
0.675722248	13	3.34E-02	0.975198132	13
-0.001114271	2	8.43E-01	0.791335527	2
-0.692884433	4	7.96E+00	-0.83358084	4
0.519038077	7	1.65E-01	0.045371578	7
-0.336594322	4	2.78E+00	-0.275562314	4
-0.241514985	4	2.10E+00	-0.625319435	4
-0.207037477	21	3.95E+01	0.203424532	21
0.30239493	23	3.10E-01	0.397995032	23
0.34997106	2	3.91E-01	-0.045240515	2
0.518830261	6	1.82E-01	-0.316311545	6
0.233153891	10	5.49E-01	0.569488085	10
-0.177749468	3	1.47E+00	-0.170037636	3
0.04045918	9	1.39E+00	-0.748777031	9
-0.362994576	13	2.56E+01	0.765745883	13
-0.266604315	15	2.07E+01	0.348402106	15
-0.00571427	2	8.52E-01	0.017604519	2
-0.110061135	6	1.89E+00	0.151756853	6
0.591734437	23	1.61E-02	0.623831792	23
-0.207886705	17	1.95E+01	-0.215942531	17
0.799508462	21	2.92E-03	0.75949357	21
-0.011780956	9	1.79E+00	0.928428854	9
-0.294802885	26	2.62E+02	0.243662567	26
0.58898017	7	1.24E-01	0.958711959	7
1	2	8.53E-02	0.181217077	2
0.316620358	37	1.99E-01	0.52307814	37
-0.631301331	5	9.33E+00	-0.509135277	5
0.598810167	42	1.29E-03	0.669317611	42
0.188396249	5	6.05E-01	0.956042733	5
0.650533122	15	2.92E-02	0.420972924	15
0.00446488	2	8.33E-01	-0.007518766	2
-1	4	3.41E+01	-2	4

0.375531232	11	2.49E-01	0.624431024	11
0.280705481	12	4.21E-01	-0.04847589	12
-0.101146714	33	7.63E+01	0.340159075	33
-0.178974832	4	1.74E+00	-1	4
0.003276	3	9.21E-01	-0.005707093	3
-0.023989814	31	2.08E+01	0.294312594	31
0.296576868	5	4.21E-01	0.096386921	5
-0.196281137	16	1.49E+01	0.218025339	16
-0.278614353	7	4.34E+00	0.095416307	7
1	49	1.79E-09	2	49
0.759729854	4	1.09E-01	0.845147211	4
-0.764140756	12	2.25E+02	-0.278088697	12
-0.700524446	14	3.20E+02	0.706013136	14
0.168739142	3	6.02E-01	0.370332499	3
0.559831165	64	2.06E-04	0.786802578	64
0.340667087	1	4.11E-01	0.276671684	1
0.533718857	76	1.16E-04	0.9259169	76
0.924762785	6	4.02E-02	-0.102962279	6
-0.69954325	13	2.21E+02	-0.736475156	13
-0.220832186	13	1.03E+01	-0.443472761	13
-0.429902962	13	3.93E+01	-0.169545693	13
0.376263012	16	1.99E-01	0.008917248	16
0.465313691	6	2.22E-01	-0.199592207	6
-0.182794185	5	2.09E+00	-0.247518015	5
-2	6	1.69E+03	-2	6
0.033923154	2	7.81E-01	-0.028767292	2
-0.97691625	3	1.15E+01	0.797903018	3
-1	7	9.81E+01	-0.877402921	7
-0.001937621	1	7.64E-01	-0.576395891	1
-0.277831173	5	2.87E+00	1	5
-0.068238763	14	4.41E+00	0.585655737	14
1	12	8.24E-04	1	12
-0.343113552	5	3.57E+00	0.162809681	5
0.126906597	16	1.30E+00	0.731011231	16
0.012639893	5	1.09E+00	0.817702509	5
-0.412966183	8	9.74E+00	-0.212493368	8
0.464345303	20	7.49E-02	0.453971379	20
-0.11274017	6	1.91E+00	-0.081729941	6
0.32097068	12	3.31E-01	0.373306825	12
-0.546451338	2	2.79E+00	-1.80E-05	2
-0.406208316	10	1.57E+01	-0.391345138	10
-0.73038062	3	6.09E+00	-0.393990713	3
-0.447710562	6	6.63E+00	-1	6
0.792692077	11	2.38E-02	0.730320493	11
-0.206102048	11	6.58E+00	0.300348785	11
0.411382546	1	3.62E-01	0.698622093	1
-0.061368115	4	1.23E+00	-0.105095788	4

-0.394389784	23	3.83E+02	0.070470573	23
-0.033490546	19	6.12E+00	-0.097171734	19
0.409348423	19	1.31E-01	1	19
0.763250787	5	8.87E-02	0.836244404	5
-0.511725743	9	2.04E+01	0.279813943	9
0.473666035	14	1.12E-01	0.533697186	14
0.669873731	2	1.94E-01	-2	2
-0.114693084	4	1.44E+00	-0.308792258	4
-0.229716043	2	1.39E+00	-0.352438431	2
-0.392787893	25	6.21E+02	-0.326186813	25
1	33	1.55E-07	1	33
-0.235105282	11	7.75E+00	0.104669291	11
-0.355416206	2	1.83E+00	-0.283821392	2
-0.29732579	11	1.10E+01	0.124846721	11
0.365295786	8	2.97E-01	0.829033897	8
0.160631512	4	6.39E-01	0.461863572	4
-0.455055216	5	5.18E+00	0.580110233	5
-0.26990959	5	2.79E+00	0.616408364	5
0.511359854	10	1.27E-01	0.957523109	10
-0.107155287	4	1.41E+00	0.555545555	4
0.28570793	3	4.45E-01	0.110827078	3
0.017976226	1	7.37E-01	0.031745743	1
-0.576302914	4	5.64E+00	-0.857942993	4
0.147565402	21	1.38E+00	0.452236949	21
1	6	2.60E-02	1	6
-0.002538732	5	1.14E+00	-0.210849099	5
0.520492351	4	2.20E-01	2	4
0.302485593	7	4.00E-01	-0.100855446	7
0.015984559	11	1.88E+00	-1	11
-0.781068265	25	4.41E+04	-1	25
-0.30283545	4	2.51E+00	0.563424364	4
-0.372007624	3	2.42E+00	-0.460474308	3
0.806736399	15	9.53E-03	0.994257136	15
-0.042822515	18	5.91E+00	-0.309725764	18
0.341038818	12	2.93E-01	-0.537973173	12
0.566197375	10	9.56E-02	0.463521745	10
0.104652735	72	4.34E+01	0.055962381	72
0.346985138	8	3.23E-01	-0.073375155	8
0.821827108	4	9.04E-02	0.371858776	4
0.446338434	18	1.02E-01	0.618849207	18
0.365817688	4	3.48E-01	0.014124116	4
-0.072704594	4	1.27E+00	0	4
0.221011537	4	5.34E-01	0.051848548	4
0.651694765	13	3.90E-02	1	13
0.541293032	4	2.07E-01	0.975461654	4
0.299264145	16	3.55E-01	0.625440147	16
0.219667019	11	5.98E-01	-0.097342509	11

0.383556557	24	1.29E-01	2	24
-0.008335248	2	8.57E-01	0	2
1	25	7.44E-05	1	25
0.342933927	7	3.39E-01	0.489367678	7
0.88617695	9	2.26E-02	0.758978542	9
0.033346465	3	8.53E-01	0.039007236	3
0.018783291	2	8.07E-01	0.016803024	2
1	21	7.19E-06	2	21
2	2	2.74E-02	2	2
0.298936419	2	4.37E-01	0.052210713	2
-0.5836346	19	7.28E+02	-0.75231625	19
0.691339302	6	9.57E-02	-0.026357128	6
-0.799361795	9	8.26E+01	0.565678801	9
0.228876857	6	5.35E-01	0.34449925	6
-0.127363487	6	2.01E+00	-0.50978121	6
0.132765499	6	7.65E-01	0.220948467	6
-0.001356386	3	9.33E-01	0.34318637	3
0.013075676	1	7.44E-01	0.023051404	1
-0.109938387	6	1.89E+00	-0.531811519	6
0.021135361	1	7.33E-01	0	1
-0.346996264	14	2.92E+01	0.279626256	14
-0.403681838	11	2.00E+01	-0.573933113	11
-0.006311379	3	9.45E-01	0	3
-0.121918246	7	2.28E+00	0.962845172	7
-0.151837821	22	2.74E+01	-0.039204581	22
1	19	4.94E-04	0.848660972	19
-0.461063788	15	8.33E+01	0.403396998	15
-0.131616632	12	5.03E+00	0.122234407	12
-0.293348897	10	8.70E+00	0.226040775	10
0.961020442	20	8.29E-04	1	20
1	8	8.97E-03	0.842103212	8
0.716614073	4	1.23E-01	0.856221412	4
0.075927099	20	2.54E+00	0.937242281	20
-0.097174843	2	1.04E+00	-0.436404517	2
-0.155832899	4	1.63E+00	-0.206420812	4
0.242022896	25	5.83E-01	0.509822703	25
0.458910563	3	2.85E-01	-1	3
0.146959115	14	1.03E+00	0.49134813	14
-0.496202267	4	4.45E+00	-0.340040068	4
0.260636841	4	4.75E-01	0.073384551	4
-0.267250057	46	1.08E+04	-0.528534952	46
-3	2	2.34E+02	0.108313525	2
0.126943381	5	7.42E-01	-0.636830664	5
0.594982865	11	7.23E-02	0.029269395	11
1	52	1.11E-11	2	52
0.006287573	4	1.01E+00	-0.336097254	4
-0.460740027	3	3.04E+00	0.257146756	3

1	38	4.41E-09	1	38
-0.486834186	18	2.36E+02	-0.252330101	18
0.331533363	6	3.65E-01	0.754233827	6
1	31	1.57E-06	2	31
0.303772492	39	2.35E-01	0.949232958	39
-0.337353924	6	4.40E+00	-0.646523341	6
-0.146172095	1	9.92E-01	-2	1
-2	22	2.64E+09	-1	22
-0.392530334	10	1.46E+01	-0.372209	10
-0.301087426	3	2.02E+00	0.914979111	3
0.122207381	5	7.54E-01	0.16792275	5
0.885636316	19	2.08E-03	1	19
-0.567061487	12	6.89E+01	-0.035083752	12
0.302098366	14	3.59E-01	0.60487471	14
0.055377197	42	1.72E+01	0.511124023	42
-1	16	1.39E+04	-0.667188049	16
0.219710958	8	5.71E-01	1	8
2	5	2.82E-03	1	5
-0.134705755	3	1.31E+00	-0.171032722	3
-0.609366716	4	6.22E+00	-0.831210488	4
-0.432941217	9	1.39E+01	-0.062871694	9
-0.54967763	2	2.81E+00	-0.46191239	2
0.040532256	5	9.91E-01	0.156701651	5
0.61801916	9	8.35E-02	0.903554407	9
0.083340754	1	6.55E-01	0.092700627	1
-0.025964112	6	1.38E+00	-0.396378886	6
0.59235967	5	1.57E-01	0.065355474	5
0.028355189	1	7.23E-01	0.137898869	1
0.031597242	8	1.33E+00	0.323629497	8
0.267359176	22	4.45E-01	1	22
0.04094234	8	1.27E+00	0.068552175	8
-0.269101108	6	3.41E+00	0.000726059	6
-2	8	2.14E+03	-2	8
-1	7	5.22E+02	-0.924452682	7
-1	5	5.13E+01	-1	5
-0.667329889	6	1.50E+01	-1	6
-0.240628436	6	3.07E+00	-0.304622634	6
-1	4	2.22E+01	-1	4
-0.610583897	3	4.47E+00	-0.781930747	3
-0.918750373	5	2.44E+01	-0.927188398	5
-0.702459324	8	3.57E+01	-0.495879552	8
-0.353860268	9	9.45E+00	-0.180940757	9
0.101291487	9	1.03E+00	-0.793605698	9
0.524601214	11	1.07E-01	-0.171549425	11
0.552311112	5	1.79E-01	0.505311032	5
-0.301610263	5	3.10E+00	-0.653598356	5
-0.880010508	9	1.22E+02	-0.467932299	9

0.337675286	18	2.51E-01	0.666850496	18
0.023841883	2	7.98E-01	0.928176628	2
0.03753389	2	7.75E-01	1	2
0.80211922	9	3.41E-02	1	9
0.004454011	6	1.23E+00	-0.054057044	6
0.182886683	12	7.58E-01	-0.059309049	12
-0.004603609	4	1.04E+00	0.028424243	4
0.961641621	20	8.24E-04	2	20
0.055992756	2	7.44E-01	0.07327438	2
0.220732153	21	6.93E-01	0.466132046	21
0.937553301	1	1.40E-01	-9.16E-05	1
0.356854891	35	1.14E-01	0.139132622	35
-0.749877922	6	2.04E+01	-0.112526048	6
-0.80284564	5	1.65E+01	-1	5
0.318172673	2	4.19E-01	0.027402768	2
0.012288015	3	9.00E-01	-0.36048032	3
0.610899364	5	1.48E-01	0.41078868	5
0.067343223	3	7.81E-01	-0.089340582	3
0.195016301	7	6.22E-01	0.95964592	7
-0.789376044	19	4.35E+03	-0.72855386	19
-0.878469275	5	2.13E+01	-1	5
-1	6	9.00E+01	-0.397804488	6
0.366328221	12	2.52E-01	-1	12
0.469637277	4	2.56E-01	0	4
0.038610737	2	7.73E-01	0	2
-1	4	3.90E+01	-1	4
-0.393099885	4	3.28E+00	0.22619364	4
-0.025344072	3	9.92E-01	0	3
-0.637666664	4	6.76E+00	-0.728602051	4
-0.019755809	9	1.86E+00	-0.455415024	9
0	5	1.13E+00	0	5
0	4	1.03E+00	-0.165475581	4
-0.686813295	7	2.32E+01	-0.364393325	7
0.264006013	4	4.70E-01	0.173504143	4
0.157089581	5	6.71E-01	0.005026332	5
-0.184366079	8	3.50E+00	-0.716789568	8
-0.27659707	11	9.79E+00	-0.066199908	11
0.169405057	4	6.22E-01	-0.247804845	4
1	8	1.29E-02	-0.153047242	8
0.335228698	7	3.50E-01	0.178316087	7
-0.332546948	10	1.07E+01	-0.832468609	10
0.456073083	1	3.34E-01	0.236221518	1
-0.553278926	6	9.81E+00	-0.58020942	6
-0.150617536	6	2.19E+00	0.654533111	6
-0.091352692	18	8.84E+00	0.064258367	18
-0.324730027	5	3.35E+00	-0.77992597	5
-0.336155186	4	2.77E+00	-0.291408993	4

-0.018400832	1	7.87E-01	-0.058395547	1
-0.66922916	7	2.16E+01	-0.010170433	7
-0.065961017	2	9.72E-01	1	2
0.408187139	11	2.07E-01	1	11
0.108620411	98	1.75E+02	0.150731439	98
0.344312074	13	2.78E-01	0.782379472	13
0.067417942	3	7.81E-01	0.720732348	3
0.059675057	5	9.29E-01	0.175126025	5
-0.866748092	6	3.15E+01	-1	6
-0.375872389	10	1.34E+01	-0.600360797	10
0.044356223	4	9.00E-01	0.023237286	4
0.792868163	20	3.81E-03	0.760024592	20
-1	8	1.82E+02	-0.724784769	8
-0.099822869	5	1.58E+00	-0.324408925	5
0.433885184	11	1.79E-01	0.751894649	11
0.00104406	40	3.64E+01	0.281894092	40
-0.379583889	8	8.39E+00	-1	8
-0.365839427	5	3.85E+00	-0.496738027	5
0.460034443	8	1.94E-01	0.217757501	8
0.488462211	37	1.37E-02	0.536579397	37
0.047913017	9	1.34E+00	-0.281609706	9
3	7	1.14E-06	4	7
2	5	3.75E-03	2	5
-0.334425727	7	5.46E+00	-0.458192007	7
-0.471876623	8	1.27E+01	-0.042105244	8
-0.008075199	6	1.29E+00	-0.611746993	6
0.032165104	8	1.32E+00	0.216783426	8
-0.705294685	10	7.56E+01	-0.189185602	10
-0.129689168	2	1.12E+00	-0.070906587	2
0.016086127	5	1.07E+00	0.234538042	5
0.168104484	37	2.01E+00	0.321618478	37
0.534343711	7	1.55E-01	-0.056057966	7
-0.297786343	5	3.06E+00	-0.699274191	5
-0.082473183	6	1.70E+00	-0.13430147	6
-0.36244935	7	6.12E+00	0.517554927	7
-0.753732012	9	6.62E+01	-0.331527229	9
-0.002914492	13	2.56E+00	0.157863961	13
2	9	2.68E-04	3	9
0.39042798	23	1.26E-01	0.26801267	23
-0.403421003	4	3.38E+00	-0.287160843	4
0.103965262	10	1.08E+00	-0.146693594	10
-0.021996989	2	8.83E-01	-0.018532169	2
-0.109354074	8	2.50E+00	0.000524011	8
-0.548923995	9	2.44E+01	-0.32826404	9
-0.286565903	22	1.03E+02	-0.032529332	22
-0.41639936	7	7.64E+00	-0.493070249	7
0.201951925	5	5.78E-01	0.775067243	5

0.447248635	22	7.59E-02	0.567710888	22
-0.367610844	10	1.28E+01	0.790001522	10
-0.631587468	6	1.31E+01	0.133088327	6
-0.335911785	5	3.48E+00	-0.682065825	5
-0.804545136	7	3.75E+01	-0.953176618	7
-0.603870596	3	4.40E+00	-0.027005946	3
-0.014535224	5	1.19E+00	0	5
-0.043421677	2	9.25E-01	-0.071851658	2
-0.872598797	12	4.33E+02	-0.687209817	12
-0.07662391	3	1.13E+00	-0.032355797	3
-0.312761522	3	2.08E+00	0	3
-0.099717241	2	1.05E+00	-0.027495764	2
-1	7	1.14E+02	-2	7
-1	9	5.46E+02	-0.67094912	9
-0.375193762	5	3.97E+00	0.226364683	5
-2	7	1.84E+03	-0.2211283	7
-0.614106034	7	1.72E+01	-0.336672264	7
-0.293036219	9	7.03E+00	-0.442159851	9
-0.3160109	7	5.06E+00	-0.301357546	7
-0.517015881	8	1.55E+01	-1	8
-0.682526016	4	7.72E+00	0.301583562	4
-0.217402393	4	1.95E+00	0	4
-0.299909652	5	3.09E+00	-0.466275349	5
-0.32691068	5	3.38E+00	-1	5
-0.367690726	4	3.04E+00	-0.027326847	4
0.539289127	5	1.87E-01	0.168400354	5
0.596197389	4	1.76E-01	0.172690864	4
-0.076421284	1	8.74E-01	-0.080206887	1
-0.037750586	3	1.02E+00	-3.15E-05	3
-0.254487374	3	1.79E+00	-0.000360521	3
-0.024032127	3	9.89E-01	0	3
-0.01844768	1	7.87E-01	0	1
0.648531884	8	8.34E-02	0.460209103	8
-0.188076169	6	2.52E+00	0.023873104	6
-1	2	9.09E+00	-0.678128637	2
-0.638936043	2	3.41E+00	-0.431001745	2
-0.048324281	2	9.35E-01	0.062922199	2
-0.253637302	2	1.47E+00	-0.388775739	2
0	1	7.61E-01	0	1
-0.107976122	4	1.41E+00	0.060095643	4
0.530133993	8	1.42E-01	0.890581183	8
0.149721139	11	8.87E-01	-0.301860239	11
0.247794325	15	5.21E-01	0.330223135	15
0.376940851	5	3.22E-01	-0.653570236	5
-0.033887534	13	3.12E+00	0.571629946	13
0.367011609	42	7.41E-02	0.603293219	42
-2	4	1.36E+02	-0.28286524	4

-1	2	8.53E+00	-0.720546131	2
0.053674793	16	2.26E+00	0.281706027	16
0.590612999	9	9.54E-02	1	9
0.251378303	8	4.95E-01	0.705649159	8
0.893083258	17	3.17E-03	2	17
-0.334887648	9	8.62E+00	-0.2763756	9
0.014695374	2	8.15E-01	0.024108304	2
0.373433243	4	3.40E-01	0.502793462	4
2	37	3.16E-13	3	37
-0.483229314	8	1.34E+01	-0.84187181	8
0.251914878	11	4.99E-01	0.336740516	11
0.515295043	18	5.73E-02	0.480842404	18
0.834896012	13	1.21E-02	0.574407455	13
-0.815700766	3	7.59E+00	0.040552419	3
1	37	3.71E-09	2	37
0.524305383	1	2.95E-01	0.722440479	1
-0.054856926	1	8.41E-01	-0.135531969	1
0.278337784	36	3.63E-01	0.096331433	36
-0.468618819	13	5.04E+01	-0.485247604	13
-0.176736514	8	3.38E+00	0.186452511	8
0.486450072	14	1.03E-01	1	14
-0.087056053	1	8.91E-01	-0.142700825	1
-0.027905447	6	1.39E+00	-0.021303678	6
-2	15	1.98E+06	-1	15
-2	11	2.16E+04	-2	11
-0.467727111	18	2.01E+02	-0.546015495	18
-2	22	4.09E+07	-1	22
0.456699738	26	5.12E-02	0.619640044	26
-0.308072042	5	3.17E+00	0.277134116	5
1	10	7.54E-03	1	10
-0.222321809	5	2.38E+00	-0.182509734	5
0.00969285	4	9.98E-01	-0.072986038	4
0.752243417	5	9.21E-02	0.899361962	5
3	10	3.04E-07	3	10
-0.30697445	30	7.15E+02	-0.761273383	30
1	12	1.93E-03	2	12
-0.254291891	12	1.05E+01	-0.051853284	12
-0.231992847	5	2.46E+00	-0.35113727	5
-0.774813341	6	2.24E+01	0.429142466	6
-0.010201095	273	1.31E+12	0.156850682	273
0.318747737	33	2.10E-01	0.711389662	33
-0.599382752	16	3.11E+02	-0.729979778	16
-0.627870867	16	3.86E+02	-0.688170739	16
0.939620512	26	2.12E-04	1	26
0.189745767	11	7.08E-01	-0.258310314	11
-0.752169628	11	1.42E+02	-1	11
0.050095947	18	2.73E+00	0.046380617	18

-0.688787411	4	7.87E+00	-0.566971973	4
0.088152919	5	8.45E-01	-0.194344436	5
-0.075487021	5	1.46E+00	1	5
0.978106104	4	5.70E-02	2	4
0.359481638	52	5.80E-02	0.53827329	52
2	7	9.64E-04	2	7
0.392890404	2	3.56E-01	0.140853145	2
1	29	2.09E-07	2	29
-0.157872882	6	2.25E+00	0.229938192	6
0.155570441	27	1.63E+00	0.681064233	27
0.352267039	9	3.04E-01	0.63481909	9
1	11	4.96E-04	2	11
0.17000795	10	7.65E-01	0.885330012	10
1	36	5.22E-06	1	36
0.203479172	5	5.75E-01	0.224259447	5
0.519905333	14	8.20E-02	0.627814829	14
0.261778961	3	4.74E-01	0.359563652	3
0.140255844	5	7.10E-01	2	5
0.146195204	2	6.11E-01	0.228291341	2
0.343290125	13	2.80E-01	-0.154267331	13
0.379152277	26	1.24E-01	1	26
-0.022916577	4	1.10E+00	-0.221836756	4
-0.134146142	2	1.13E+00	0.229465066	2
-0.817611509	4	1.15E+01	-0.214672529	4
-0.177902554	12	6.64E+00	0.047819738	12
-0.084019695	1	8.87E-01	-9.89E-05	1
0.519793425	9	1.35E-01	0.357612014	9
0.647716026	7	9.71E-02	0.332751409	7
-0.147936945	22	2.64E+01	0.171302856	22
0.435603444	22	8.51E-02	1	22
0.022572907	13	2.18E+00	-0.116988501	13
-0.137724747	11	4.48E+00	1	11
-1	9	3.19E+02	-1	9
-0.065595711	5	1.41E+00	0.03327397	5
0.536420019	6	1.70E-01	0.435897451	6
0.432557716	4	2.86E-01	0.431124569	4
-2	7	2.62E+03	-0.588475282	7
-0.277576411	12	1.21E+01	-0.164487532	12
-0.040843431	6	1.46E+00	-0.477985751	6
-0.297679145	10	8.90E+00	-0.222923285	10
-0.108421328	12	4.37E+00	0.499472192	12
0.069555619	12	1.50E+00	-0.084616924	12
-0.273016682	12	1.18E+01	-0.302026022	12
0.437262027	8	2.15E-01	0.793469839	8
1	10	3.59E-03	1	10
0.673742312	15	2.47E-02	0.918155744	15
-0.242186429	3	1.73E+00	-0.971152383	3

-0.401000737	11	1.97E+01	-0.493571889	11
-0.671883017	12	1.29E+02	-0.339868544	12
-0.563528457	3	3.96E+00	-0.473692747	3
0.67298331	20	1.13E-02	0.776849274	20
0.742965169	36	3.14E-04	0.957376304	36
1	5	1.25E-02	1	5
-0.154786286	22	2.83E+01	0.105101805	22
0.147765236	10	8.59E-01	0.903787144	10
0.611415255	12	5.77E-02	1	12
0.464993663	4	2.60E-01	0.322749889	4
1	13	3.15E-04	1	13
-0.031493971	4	1.13E+00	0.854531371	4
0.461820622	5	2.43E-01	0.947701894	5
-0.08973145	6	1.75E+00	0.071056657	6
0	4	1.03E+00	0.132203275	4
-0.842780871	4	1.24E+01	-1	4
-2	5	6.94E+02	-1	5
-2	4	1.15E+02	-1	4
-1	5	1.55E+02	-0.731523224	5
0	2	8.41E-01	-0.10458972	2
0	3	9.29E-01	-0.068917165	3
-0.03534359	11	2.52E+00	1	11
-0.006170841	12	2.36E+00	0.188385261	12
2	8	1.01E-03	2	8
2	8	8.46E-04	2	8
-0.567978015	8	1.95E+01	-0.763124491	8
-0.4319459	5	4.80E+00	0.157706662	5
-0.441349258	12	3.24E+01	-0.06212457	12
0.086262475	2	6.96E-01	-0.209220443	2
-0.008125266	6	1.29E+00	0.465408751	6
0.133575793	4	6.92E-01	-0.599300507	4
-0.290564525	7	4.56E+00	0.099969039	7
-0.035227163	1	8.12E-01	-0.029691723	1
-0.387603106	4	3.23E+00	0.262186995	4
-0.045232864	3	1.04E+00	-0.445887393	3
-0.532342004	6	9.08E+00	0.600486173	6
-0.194426373	7	3.07E+00	-0.396786544	7
3	5	4.78E-05	3	5
-0.097797818	2	1.04E+00	-0.135529975	2
0.303498131	21	3.17E-01	0.372916812	21
0.092602381	5	8.33E-01	-0.004262543	5
-0.503421683	4	4.55E+00	-0.00416	4
-0.07919949	1	8.79E-01	-0.038608368	1
0.078418914	21	2.66E+00	0.33181299	21
0.901308942	7	3.43E-02	2	7
-0.228345555	10	6.19E+00	-0.362475656	10
0.864783061	15	6.29E-03	0.894321664	15

1	2	7.08E-02	2	2
-0.2213017	6	2.85E+00	0.739240558	6
-0.480848814	10	2.33E+01	0.091377019	10
0.665004791	6	1.06E-01	0.367729127	6
0.354522346	4	3.60E-01	0.321735437	4
-0.123074893	10	3.56E+00	0.260112126	10
-0.086822187	4	1.33E+00	-0.282728807	4
1	13	6.28E-04	1	13
-0.20885792	4	1.90E+00	-0.188286052	4
0.122753696	4	7.14E-01	0.318684126	4
-0.545014968	5	7.00E+00	0.266581573	5
-0.684228513	5	1.11E+01	-0.701593732	5
-0.836895293	7	4.29E+01	-0.672009011	7
-0.346452998	23	2.35E+02	0.17306544	23
-0.386061162	11	1.81E+01	0.214494806	11
1	7	4.51E-03	0.800243417	7
-0.556757763	12	6.48E+01	-0.051768079	12
-0.289194228	13	1.60E+01	-0.131400416	13
0	1	7.61E-01	0	1
-0.620771412	5	9.01E+00	0.044967213	5
-0.027779994	2	8.94E-01	-0.015730354	2
0.108181201	12	1.19E+00	0.047865084	12
-0.282026515	4	2.36E+00	0.084206404	4
-0.025674539	10	2.14E+00	0.883170835	10
-0.53238307	4	4.95E+00	-0.54497491	4
0.605441762	30	5.58E-03	0.666543664	30
0.069188304	7	1.04E+00	-0.241600259	7
-0.311103659	4	2.58E+00	-0.514423389	4
0.624237756	11	6.13E-02	-0.069580931	11
0.248143852	3	4.91E-01	0.321298894	3
1	12	1.51E-03	2	12
0.913558221	18	2.10E-03	2	18
0.54367922	8	1.34E-01	0.247057259	8
-0.13464558	2	1.13E+00	-0.983918723	2
0.792459698	9	3.57E-02	0.742166138	9
0.053762037	19	2.87E+00	-0.110295084	19
0.364803736	15	2.25E-01	0.755460804	15
-0.001917466	1	7.64E-01	0.02520536	1
0.793178715	9	3.56E-02	1	9
-0.268239368	9	6.23E+00	-0.420384411	9
-0.523431035	1	1.96E+00	0.583354531	1
0.60625727	18	2.69E-02	0.197354398	18
0.710351913	3	1.49E-01	0.856380497	3
-0.025876922	2	8.90E-01	-0.076310396	2
-0.160858058	4	1.65E+00	-0.389529301	4
0.463154187	9	1.77E-01	0.931687732	9
0.615086068	6	1.27E-01	1	6

-0.849148892	4	1.26E+01	-0.97899597	4
-0.560753544	4	5.39E+00	-0.091041866	4
-0.033359613	7	1.59E+00	-0.021556364	7
-0.090425382	6	1.75E+00	0.383392043	6
-0.818902662	4	1.16E+01	-0.302801507	4
-0.055398749	18	6.56E+00	0.28915353	18
-1	11	2.58E+03	-0.324066155	11
-0.119921489	13	5.42E+00	-0.209152815	13
-0.633420053	2	3.37E+00	-0.778826398	2
0.085397397	2	6.98E-01	0.051514541	2
0.019177036	2	8.07E-01	0.047250403	2
0.486490934	3	2.66E-01	1	3
0.802579945	10	2.76E-02	2	10
0.695942285	17	1.51E-02	0.424525838	17
0.268009507	27	4.36E-01	0.316797457	27
0.920234898	4	6.76E-02	0.762480225	4
0.546965362	12	8.50E-02	-0.308467486	12
2	8	1.65E-04	1	8
-0.232894016	4	2.04E+00	0.410093817	4
-0.045706876	4	1.18E+00	0.030503539	4
0.165560097	5	6.53E-01	0.504326049	5
1	26	8.94E-05	2	26
1	19	2.00E-05	2	19
0.577381667	14	5.56E-02	1	14
-0.370615805	8	8.06E+00	-0.632522172	8
0.661287274	12	4.27E-02	1	12
-0.391598648	12	2.40E+01	0.371016281	12
-0.619057345	5	8.96E+00	0.536946476	5
-0.139870084	3	1.33E+00	0.098193241	3
0.537060723	41	4.22E-03	0.748091598	41
-0.386151279	19	1.31E+02	-0.190455233	19
-0.376376152	4	3.12E+00	-0.025340297	4
0.424287395	6	2.58E-01	0.039412516	6
0.410098885	2	3.42E-01	0	2
0.249041015	17	5.21E-01	0.681720367	17
0.159099455	5	6.67E-01	-0.068211483	5
-0.384908638	8	8.59E+00	0.274665997	8
0.60006715	40	1.64E-03	0.933779556	40
-0.678093477	6	1.56E+01	-0.741643225	6
-0.520417292	6	8.68E+00	-0.198430343	6
-0.321599451	9	8.08E+00	-0.299273777	9
-0.115827891	4	1.45E+00	0.015255337	4
0.153346936	11	8.69E-01	0.321454247	11
0.607485833	11	6.74E-02	0.909455808	11
-0.442326806	16	9.53E+01	-0.947556904	16
-0.878029416	10	1.87E+02	-0.529242734	10
-0.821912881	5	1.76E+01	0.230691345	5

0.056281596	17	2.40E+00	-0.158692426	17
1	18	3.49E-05	2	18
0.872232681	10	1.92E-02	0.896229065	10
0.235643348	4	5.12E-01	0.427874023	4
0.228938722	4	5.22E-01	0.276085668	4
0.698942425	2	1.82E-01	0.873159871	2
0.637055657	4	1.56E-01	0.237614231	4
-1	6	5.60E+01	-0.000772859	6
-0.058078458	4	1.22E+00	-0.208492679	4
-0.551656255	3	3.84E+00	-0.857093302	3
-0.096304607	3	1.19E+00	-0.13327608	3
-1	3	2.27E+01	-1	3
-0.321535876	13	1.97E+01	-0.200235509	13
0.079065782	10	1.23E+00	0.218191391	10
1	6	4.76E-03	2	6
0.379429554	26	1.23E-01	0.573341934	26
0.192674892	1	5.37E-01	1	1
0.034199546	3	8.51E-01	-0.015208184	3
0.584228111	12	6.79E-02	0.485942938	12
0.957114099	45	1.11E-06	1	45
0.530776468	13	8.45E-02	0.6148329	13
-0.482759697	16	1.29E+02	-0.34959517	16
-0.471893784	8	1.27E+01	-0.763658335	8
9.97E-05	17	3.74E+00	-0.689905623	17
-0.739137755	15	6.10E+02	-0.666192119	15
-0.692216561	14	3.03E+02	-0.509875807	14
0.070717214	10	1.29E+00	-0.245395569	10
-0.565501755	9	2.65E+01	0.097432836	9
0.564258543	26	1.51E-02	1	26
0.291455298	3	4.39E-01	0.274969114	3
0.040844828	8	1.27E+00	0.329987963	8
0.1129401	2	6.57E-01	0.035931899	2
-0.073144513	25	1.86E+01	0.294332666	25
-0.303301722	23	1.51E+02	0.617927234	23
0	2	8.41E-01	0	2
0.020929691	6	1.16E+00	-0.386876469	6
-0.208676284	8	3.90E+00	-0.854261875	8
0.013866415	5	1.08E+00	0.232056795	5
-0.243405722	5	2.56E+00	-0.248017542	5
-0.283871495	7	4.44E+00	0.402535698	7
2	5	7.33E-03	2	5
2	16	5.41E-06	2	16
-0.433205938	7	8.18E+00	0.461335637	7
-0.426911027	8	1.04E+01	-0.340341223	8
-0.381083961	2	1.94E+00	-0.845927519	2
-0.000422237	3	9.30E-01	-0.00135965	3
0.706308343	6	9.05E-02	1	6

0.027878082	21	4.29E+00	-0.085129712	21
0.278334531	7	4.42E-01	-0.145895749	7
0.327402971	5	3.80E-01	0.248953836	5
0.209403604	7	5.86E-01	0.487315224	7
-0.311139809	4	2.58E+00	-0.049758214	4
-0.077058118	4	1.29E+00	-0.416799328	4
0.534220605	9	1.25E-01	0.773222156	9
0.085211483	3	7.46E-01	-0.219088555	3
-0.302206651	2	1.63E+00	-0.476293181	2
-0.468025277	4	4.10E+00	-0.427404848	4
-0.066309776	6	1.60E+00	-0.790735039	6
-0.860054928	4	1.30E+01	-1	4
-1	5	7.04E+01	-0.443267367	5
-0.88097017	18	6.23E+03	-0.627731915	18
-0.01563823	2	8.71E-01	0	2
-0.139036387	13	6.12E+00	-0.048881379	13
-0.535679604	8	1.69E+01	-0.653550583	8
0.888301315	40	1.32E-05	0.991634662	40
-0.499400173	15	1.10E+02	-0.076627588	15
0.065773475	10	1.32E+00	-0.32945351	10
-0.044225982	12	2.97E+00	0.718840346	12
-0.45408832	29	3.63E+03	-0.292086411	29
-0.076237427	4	1.29E+00	-0.170740474	4
-0.063339478	10	2.60E+00	0.455363318	10
0.042906043	17	2.67E+00	0.492991536	17
-0.001277812	2	8.44E-01	0.043820033	2
-0.009769262	4	1.06E+00	-0.278115121	4
0.714567501	13	2.61E-02	0.778392238	13
0.173937232	23	1.15E+00	-0.016695134	23
-0.584966175	4	5.79E+00	0.610964631	4
-1	6	2.68E+02	-0.120510107	6
0.168746301	10	7.70E-01	0.38154106	10
-0.197709839	12	7.48E+00	-0.090014569	12
0.052818291	5	9.51E-01	-0.376146709	5
-0.293090031	7	4.61E+00	-0.346949857	7
-0.382618077	12	2.27E+01	-0.277710667	12
-0.648048547	2	3.48E+00	0.447378027	2
-0.115777606	2	1.08E+00	0.021240136	2
-0.102059781	5	1.59E+00	-0.000201865	5
-0.144907386	3	1.35E+00	-2.77E-06	3
-0.690519918	4	7.91E+00	-0.015508891	4
-0.607669874	6	1.20E+01	-0.865135561	6
-1	26	9.65E+06	-0.075311232	26
-0.817747432	2	5.05E+00	1	2
-0.297109145	3	2.00E+00	0.150900041	3
-0.767273772	6	2.18E+01	-0.698960586	6
-0.014788055	2	8.69E-01	0	2

0	2	8.41E-01	-0.049671152	2
-0.185465172	4	1.78E+00	-0.73635466	4
-1	4	5.57E+01	-0.457576721	4
0	1	7.61E-01	0	1
0	1	7.61E-01	0.035508714	1
0.413268136	9	2.26E-01	1	9
0.439082694	2	3.21E-01	-1	2
-0.34658296	10	1.15E+01	-0.363766481	10
0.032532741	4	9.32E-01	-0.218694139	4
3	6	4.52E-06	4	6
-0.535683977	14	1.05E+02	0.340600858	14
1	7	1.59E-02	0.726238385	7
0.843856089	7	4.34E-02	0.593629329	7
-0.353405983	2	1.83E+00	-0.000117419	2
0.44744185	4	2.74E-01	0.111235181	4
0.418580351	8	2.34E-01	1	8
0.252400576	2	4.84E-01	0.030783329	2
-0.0561835	2	9.51E-01	0.197565901	2
-2	2	4.54E+01	-0.991655491	2
-2	2	3.35E+01	-1	2
-1	3	2.23E+01	-1	3
-0.590362951	6	1.13E+01	-0.073834219	6
-0.006069508	2	8.52E-01	0	2
-0.710534751	6	1.76E+01	-0.069608708	6
-0.318015288	3	2.11E+00	-0.000288205	3
-0.606223447	17	4.57E+02	-0.399711278	17
3	30	9.31E-18	4	30
0.321691995	51	1.33E-01	0.333269667	51
0.597184613	9	9.24E-02	0.927844756	9
0.280082221	8	4.35E-01	0.093868233	8
0.717352021	9	5.15E-02	0.648562009	9
0.098537105	10	1.11E+00	1	10
0.123998986	3	6.75E-01	0.692532137	3
0.069272944	9	1.21E+00	0.57560219	9
0.58782323	15	4.57E-02	0.893373779	15
1	67	7.27E-13	2	67
-0.248064168	12	1.01E+01	0.072708924	12
1	13	2.36E-03	1	13
-0.23697045	6	3.03E+00	-0.21605524	6
0.350142678	33	1.35E-01	0.934808809	33
-0.198205211	17	1.80E+01	-0.430321065	17
0.003292454	21	5.41E+00	0.208578534	21
0.413616031	24	9.40E-02	1	24
0.316953479	4	4.02E-01	-0.005101827	4
-0.917415368	13	8.88E+02	-0.592445181	13
0.045175435	5	9.75E-01	-0.278559714	5
0.877274419	9	2.36E-02	1	9

0.182978817	18	9.06E-01	0.727922323	18
-0.319576694	4	2.64E+00	0	4
0.468834511	7	2.02E-01	0.39973288	7
-0.098559532	3	1.20E+00	-0.069946964	3
-0.137309091	15	8.21E+00	0.241662065	15
3	4	3.52E-04	2	4
-0.455177415	6	6.81E+00	-0.075264133	6
-0.080034289	3	1.14E+00	-1	3
2	13	1.51E-04	2	13
0.262031986	11	4.71E-01	0.650015894	11
0.239324636	47	7.19E-01	0.869564915	47
0.363140713	23	1.67E-01	0.527561538	23
1	10	2.59E-03	2	10
-0.194757751	25	7.05E+01	0.180467555	25
-0.496230197	1	1.87E+00	0	1
-0.297328773	8	5.80E+00	-0.267549428	8
-0.756137346	1	2.99E+00	-2	1
-0.222644338	3	1.65E+00	0.300721074	3
1	12	9.23E-04	2	12
0.78568911	16	9.07E-03	0.927261538	16
-0.277151581	18	4.14E+01	0.088432523	18
0.452841612	9	1.86E-01	0.560971335	9
-0.10125907	11	3.65E+00	-0.254913466	11
-1	5	4.85E+01	0.566717109	5
-0.345881773	10	1.15E+01	-0.521448124	10
0.286718978	6	4.31E-01	-0.415766786	6
-1	8	1.04E+03	-0.957065189	8
-2	4	1.19E+02	-0.920043347	4
-0.340957883	2	1.78E+00	-0.254518524	2
-0.639434014	5	9.59E+00	-0.373361422	5
-0.01194747	7	1.45E+00	0.24827554	7
-0.177654468	4	1.74E+00	-0.156563435	4
-0.234510971	18	2.90E+01	-0.064429004	18
-0.575371966	7	1.47E+01	-0.280160597	7
-0.352009434	6	4.64E+00	-0.29024474	6
-0.251133925	10	6.97E+00	-0.299235275	10
0.063031555	19	2.65E+00	-0.160271428	19
-0.046406002	8	1.88E+00	-0.330863382	8
0.745164558	15	1.48E-02	0.980119279	15
0.177985283	5	6.26E-01	0.322682412	5
-0.007510396	4	1.05E+00	-0.072715694	4
-0.681489459	5	1.10E+01	-0.781610433	5
-0.40973226	6	5.75E+00	-1	6
0.565589422	6	1.53E-01	0.323970938	6
0.474607821	14	1.11E-01	0.83385501	14
1	12	5.07E-03	2	12
-0.211628887	3	1.60E+00	0.414283342	3

0.268105064	6	4.62E-01	-0.300269953	6
0.09949152	10	1.11E+00	0.264439152	10
0.615607489	9	8.45E-02	0.72759036	9
-0.494931501	14	7.95E+01	-1	14
0.29846911	11	3.84E-01	0.66793089	11
-0.151693201	8	3.02E+00	0.148263471	8
1	1	1.15E-01	0.912134502	1
0.397711773	12	2.08E-01	0.644938438	12
-0.112414086	14	5.95E+00	-0.239669121	14
0.844996335	16	5.80E-03	0.817766708	16
-0.025878793	3	9.93E-01	-0.0974154	3
-0.073747852	3	1.12E+00	-1	3
-0.731012293	6	1.90E+01	-0.301035367	6
-0.323375084	6	4.17E+00	-0.314349731	6
-0.711812065	7	2.57E+01	-0.638044338	7
-0.236993412	23	7.67E+01	-0.244768447	23
0.453063222	1	3.35E-01	0.698622093	1
0.453063222	1	3.35E-01	0.698622093	1
0.453063222	1	3.35E-01	0.698622093	1
0.200254631	14	7.16E-01	0.578185503	14
-0.184463995	10	4.91E+00	-0.437128133	10
0.010735379	15	2.84E+00	0.616579797	15
0.085379959	7	9.75E-01	0.970559269	7
0.364720172	12	2.54E-01	0.579790168	12
0.184347922	4	5.95E-01	-0.653443782	4
-0.271294166	14	1.75E+01	-0.398598053	14
-0.020852886	22	7.57E+00	-0.744882966	22
0.259398857	54	4.89E-01	0.770259632	54
0.044732651	2	7.63E-01	0.037865846	2
-0.021144667	17	4.43E+00	0.948071541	17
0.141758362	3	6.45E-01	1	3
-0.268135701	10	7.62E+00	0.403129827	10
-0.235303655	10	6.42E+00	-0.252801939	10
0.0552593	4	8.72E-01	0.116290039	4
0.544350841	11	9.62E-02	-0.367842661	11
2	13	1.09E-04	2	13
1	9	1.07E-02	2	9
0.130962633	17	1.33E+00	1	17
2	18	5.88E-06	1	18
1	1	7.37E-02	0.448088244	1
0.510313298	23	3.71E-02	1	23
0.305151824	36	2.42E-01	0.830321602	36
-1	7	2.11E+02	-2	7
-0.959726958	3	1.10E+01	-0.279848953	3
-0.032774733	13	3.10E+00	0.386899629	13
1	37	2.83E-07	2	37
-0.406154852	7	7.32E+00	-0.584264946	7

0.330366744	38	1.56E-01	0.373108619	38
0.007505202	12	2.18E+00	1	12
0.024084786	12	1.97E+00	1	12
-0.652335647	15	3.28E+02	-0.320260303	15
-0.423403988	13	3.77E+01	-0.026980547	13
0.21850101	5	5.47E-01	2	5
1	32	1.89E-07	2	32
0.521376878	17	6.02E-02	0.531914739	17
0.814331611	24	1.35E-03	1	24
0.163324533	36	2.08E+00	-0.012712345	36
0.451162884	28	4.72E-02	0.098457532	28
-0.382718648	13	2.91E+01	-0.62161351	13
0.141451798	14	1.07E+00	-0.273384972	14
0.423252089	3	3.13E-01	-0.348439853	3
-0.335673392	5	3.48E+00	-0.079858058	5
-0.260994868	14	1.63E+01	-0.239729198	14
-0.06594537	8	2.06E+00	0.396770978	8
-0.056854368	5	1.37E+00	0.005724526	5
0.311910144	46	1.80E-01	0.10837131	46
-0.133106469	17	1.08E+01	-0.023334041	17
-0.199764745	18	2.18E+01	-0.063830138	18
0.024450953	9	1.50E+00	-0.05330704	9
0.256176009	11	4.87E-01	0.425186605	11
-0.307547181	14	2.23E+01	0.887671392	14
-0.277207868	15	2.23E+01	-0.26944509	15
0.019137583	6	1.17E+00	0.006376759	6
1	9	5.95E-03	0.721325459	9
0.045194461	20	3.35E+00	0.369648366	20
2	33	5.67E-09	2	33
0.030731577	1	7.20E-01	-0.209085031	1
0.251182844	17	5.12E-01	0.635882708	17
1	23	1.92E-05	2	23
0.105443212	38	5.65E+00	0.224368329	38
0.363379412	12	2.56E-01	0.473108645	12
0.31663768	14	3.25E-01	0.323462888	14
-0.566693781	4	5.48E+00	2	4
0.839979336	14	9.37E-03	2	14
0.744922615	6	7.84E-02	0.402983146	6
2	13	2.00E-05	2	13
-0.42318743	5	4.66E+00	-0.322596685	5
0.063866169	5	9.16E-01	-0.17109339	5
0.482087681	15	9.74E-02	0.744735677	15
0.226215937	6	5.40E-01	0.518468716	6
-0.422192455	5	4.64E+00	0.245858613	5
0.418131394	6	2.64E-01	-0.619486904	6
-0.251594925	5	2.63E+00	-0.620601661	5
-0.302866312	12	1.41E+01	-0.314389688	12

0.465496301	13	1.28E-01	0.447236419	13
0.005674762	3	9.16E-01	-0.009520815	3
-0.215275333	16	1.72E+01	-0.275293227	16
0.060520984	18	2.50E+00	0.422758893	18
-0.070716932	6	1.63E+00	0.353970483	6
0.923583899	24	4.23E-04	1	24
-0.335714531	4	2.77E+00	-0.363816923	4
-1	13	2.05E+03	-0.426159236	13
0.36293156	19	1.95E-01	1	19
0.382608246	15	1.98E-01	0.928310372	15
0.722939812	12	2.95E-02	0.131852014	12
0.596811683	7	1.20E-01	0.863700762	7
-0.198148994	11	6.29E+00	-0.150492386	11
-0.254874579	6	3.23E+00	0.101751874	6
-0.075329905	16	5.99E+00	-1	16
-0.099589997	21	1.43E+01	-0.233885916	21
-0.062244452	13	3.75E+00	0.247430712	13
-0.581466666	4	5.73E+00	1	4
0.439849409	2	3.21E-01	0	2
-0.275594136	10	7.93E+00	0	10
-0.49285524	2	2.48E+00	0	2
-0.000256984	2	8.42E-01	0.037702302	2
-0.254103579	6	3.22E+00	0.296240597	6
0.32497776	9	3.47E-01	0.176930929	9
-0.446640635	2	2.24E+00	-0.701274528	2
-0.124260771	2	1.10E+00	-0.063581715	2
-0.464021972	6	7.04E+00	0	6
-0.137237481	17	1.11E+01	0.000454729	17
0.183716883	4	5.96E-01	0.780043578	4
-0.118969658	16	8.32E+00	0.15037461	16
-0.222489121	5	2.38E+00	1	5
-0.458131971	26	1.67E+03	-0.160740204	26
-0.909198371	3	9.65E+00	-0.430951582	3
-0.075780049	31	4.13E+01	0.84792866	31
-0.661238679	6	1.47E+01	-0.331160664	6
-0.038957778	19	6.42E+00	0.765200412	19
-0.789336182	7	3.53E+01	-0.697354778	7
0.070982008	11	1.38E+00	0.16515752	11
-0.08153866	4	1.31E+00	0	4
-0.633119571	9	3.68E+01	-0.608522363	9
-0.59835487	5	8.36E+00	-2	5
0.005240281	2	8.32E-01	-0.020558018	2
-0.21720839	23	6.27E+01	-0.153478742	23
0.019054601	18	3.53E+00	-0.267293809	18
-0.14683167	5	1.85E+00	-0.217227109	5
-0.302733832	10	9.14E+00	-0.532235887	10
-0.139075001	16	9.68E+00	0.040099113	16

-0.806606116	23	2.58E+04	-0.761894667	23
-0.406217212	3	2.64E+00	-0.367623362	3
0.508509352	25	3.13E-02	0.49770865	25
-0.433530522	9	1.39E+01	-0.173544524	9
-0.308381499	11	1.17E+01	0.267310644	11
0.483539045	7	1.90E-01	-0.622412881	7
-0.004110614	19	4.74E+00	0.578591139	19
-0.906468661	11	3.39E+02	0.123617797	11
-0.336904116	2	1.76E+00	-0.00542209	2
-0.369926511	5	3.90E+00	-0.475205005	5
-0.595512439	7	1.59E+01	-1	7
-0.974556953	14	2.05E+03	-0.177940817	14
-1	5	4.43E+01	-0.743463871	5
-0.18557735	2	1.26E+00	-0.026888519	2
-0.15878444	3	1.40E+00	0.01596053	3
-0.375231331	36	7.41E+03	0.287236925	36
0.114519528	10	1.02E+00	0.562102214	10
0.146408368	4	6.66E-01	-0.091308801	4
-0.067722015	46	2.44E+02	0.056138517	46
0.381320955	11	2.41E-01	0.555322951	11
0.797168673	20	3.66E-03	1	20
-0.601810962	15	2.28E+02	0.161990508	15
-1	6	6.98E+01	-0.412104813	6
-0.712152328	14	3.47E+02	-0.167639928	14
-0.539645933	11	4.30E+01	0.066263151	11
0.392644111	4	3.22E-01	-0.0661776	4
0.016161135	1	7.39E-01	0	1
0.016161135	1	7.39E-01	0	1
-0.022261433	1	7.93E-01	0	1
0.24158742	8	5.18E-01	0.224699694	8
0.319959312	34	2.02E-01	0.47704468	34
-0.375368609	2	1.92E+00	-0.238453516	2
0.545697246	8	1.32E-01	0.301901883	8
-0.004130614	15	3.16E+00	0.546404071	15
0.061845617	24	3.91E+00	-0.266385835	24
-0.007803091	16	3.60E+00	-0.038164117	16
0.494569811	28	2.79E-02	0.847058101	28
0.25172389	2	4.84E-01	-0.397223784	2
0.023715304	1	7.29E-01	-0.042232036	1
0.130649978	13	1.09E+00	0.37107759	13
1	17	3.44E-04	2	17
-0.242393546	24	9.82E+01	-0.132820849	24
0.183496741	4	5.97E-01	0.356695173	4
-1	8	2.17E+02	-1	8
0.08323293	33	5.73E+00	0.434632007	33
0.551712079	13	7.39E-02	0.871110082	13
-0.109040289	16	7.72E+00	-0.173976148	16

2	8	1.56E-03	1	8
1	26	6.51E-06	1	26
-0.943098497	10	2.63E+02	-0.472775541	10
0.019328519	2	8.06E-01	0.125205361	2
0.702461757	48	7.66E-05	1	48
-0.140677041	9	3.35E+00	0.211365494	9
0.444212234	12	1.58E-01	0.979896405	12
-0.612546464	3	4.50E+00	0.210412613	3
-0.056423058	33	4.07E+01	0.030716804	33
0.554033963	20	3.32E-02	0.400762154	20
2	15	2.97E-06	2	15
-0.143354596	24	3.44E+01	0.387531585	24
0.414949982	3	3.19E-01	1	3
0.052942935	3	8.11E-01	0.015481208	3
-0.507368083	14	8.65E+01	-0.126234562	14
0.049069376	7	1.13E+00	-0.027216162	7
-0.126419339	8	2.70E+00	-0.144190207	8
0.571663021	33	6.04E-03	0.696427544	33
2	8	2.40E-04	2	8
0.727706072	9	4.89E-02	0.445566018	9
0.735439847	37	2.94E-04	1	37
0.949047363	25	2.48E-04	1	25
1	5	2.09E-02	2	5
1	16	4.05E-04	2	16
2	17	1.81E-08	3	17
0.310710634	6	3.94E-01	0.011226815	6
1	11	9.30E-04	1	11
0.823794702	71	4.94E-08	0.9970775	71
0.024262863	26	6.97E+00	0.055355366	26
0.029970472	1	7.21E-01	-0.711243936	1
0	3	9.29E-01	0.335033056	3
0.231236742	6	5.30E-01	-2	6
0.913731727	6	4.18E-02	0.001829009	6
-0.884401741	6	3.36E+01	-0.951734504	6
0.008297846	18	3.86E+00	0.20129822	18
0.819436846	38	6.42E-05	1	38
-0.045589606	7	1.67E+00	-0.449053819	7
0.372422292	6	3.13E-01	0.1891416	6
0.111434696	6	8.28E-01	0.175960068	6
-0.156195898	12	5.83E+00	-0.114246418	12
1	18	5.26E-04	1	18
-0.013711149	4	1.07E+00	0.00784374	4
0.660751764	4	1.46E-01	-0.444839292	4
0.196339569	9	6.50E-01	0.815221537	9
0.422315588	17	1.32E-01	0.835652961	17
0.395601013	11	2.22E-01	0.913695835	11
0.630957354	19	1.90E-02	0.57025856	19

0.166573031	76	8.36E+00	0.191080026	76
-0.072877462	18	7.58E+00	0.011869238	18
-0.149107424	4	1.60E+00	-0.558378547	4
-0.298719149	5	3.07E+00	-1	5
0.168485994	7	6.93E-01	0.172366548	7
-0.124249546	5	1.72E+00	0.189365383	5
0.252590018	16	5.05E-01	0.093679199	16
-0.011074015	4	1.06E+00	0.076054468	4
-0.143417037	6	2.14E+00	-0.305945913	6
0.502399434	6	1.93E-01	1	6
0.870354132	14	7.63E-03	0.90971768	14
0.568658823	7	1.34E-01	0.380752565	7
-0.165105876	2	1.21E+00	-0.104608599	2
-0.267934071	4	2.27E+00	-0.318984873	4
-0.518643933	6	8.63E+00	0.499445055	6
0.020368551	2	8.04E-01	0.033156032	2
0.046547646	1	7.00E-01	-5.52E-05	1
0.21957647	2	5.20E-01	0.035745962	2
-0.294266812	19	5.89E+01	-0.004925442	19
-2	25	1.31E+09	-1	25
-0.080274201	15	5.46E+00	0.632131945	15
0.501616203	2	2.80E-01	1	2
-0.459463599	9	1.58E+01	-0.117592149	9
0.533580425	39	5.52E-03	0.616812675	39
-0.65880598	2	3.57E+00	-0.345156489	2
-0.070466563	6	1.63E+00	0.157550796	6
-0.594672363	5	8.26E+00	0.019150731	5
0.387250386	14	2.01E-01	0.229736854	14
-0.423514407	22	3.97E+02	-0.330833284	22
-0.01307056	2	8.66E-01	0.024195703	2
0.102746488	32	4.11E+00	0.609792733	32
0.201857844	32	1.06E+00	0.237321057	32
-0.038665205	18	5.71E+00	-0.077152489	18
-0.05086368	1	8.35E-01	-0.017204337	1
-0.640156489	11	7.58E+01	-0.380409654	11
0.137928184	5	7.16E-01	0.17883559	5
0.165206462	7	7.03E-01	-0.347865578	7
-1	12	1.56E+04	-0.669202768	12
-0.129607208	2	1.12E+00	-0.370066889	2
-1	8	1.82E+02	-2	8
-0.382101796	11	1.77E+01	-0.457016908	11
-0.466447181	3	3.09E+00	0.719490491	3
-0.849507734	14	8.79E+02	-0.79832134	14
0.107823453	5	7.91E-01	0.15761816	5
0.3064131	13	3.55E-01	0.557842102	13
-0.05856595	9	2.25E+00	0.647323669	9
0.626239662	10	6.97E-02	0.533053107	10

-1	3	1.29E+01	-0.406440454	3
-1	3	2.39E+01	-0.776804545	3
0.442057354	15	1.30E-01	0.583832269	15
-0.043996237	4	1.17E+00	0.244119061	4
-0.475797988	11	3.00E+01	0.111993178	11
0.267066037	9	4.61E-01	0.403165728	9
-0.09119353	13	4.51E+00	0.331576322	13
0.940722156	6	3.78E-02	0.509877908	6
-0.09207101	13	4.53E+00	-0.052094749	13
0.104975886	16	1.54E+00	0.431522008	16
0.145196732	7	7.63E-01	0.291982405	7
-0.992755185	5	3.12E+01	-0.298647914	5
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-1	5	1.29E+02	-0.252516086	5
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0.236450934	7	5.25E-01	-0.879668198	7
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-0.377317663	5	4.00E+00	-1	5
-0.158393449	5	1.92E+00	0.530970157	5
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-0.126577952	6	2.01E+00	-0.010515184	6
-0.614063949	6	1.23E+01	0.34644876	6
-0.068626111	5	1.43E+00	-0.090015888	5
0.02555179	8	1.36E+00	-0.31888971	8
0.604161449	5	1.51E-01	-0.559934077	5
-0.213654738	6	2.77E+00	-0.163184827	6
-0.405438862	6	5.66E+00	-0.296055789	6
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0.805748168	5	7.70E-02	0.286057742	5
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0.770559262	14	1.50E-02	1	14
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0.12320645	33	3.27E+00	0.501584698	33
-0.246293936	13	1.22E+01	-0.733062826	13

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-0.101005956	10	3.17E+00	0.297267364	10
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-0.450706589	7	8.79E+00	-0.445828323	7

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6.33E+00
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1.59E-02
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3.75E-01
1.34E-01
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8.26E-01
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5.68E-01
5.68E+00
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7.22E-01
6.03E+00
7.41E-01
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3.26E+01
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1.62E+01
2.45E-02
5.04E-01
1.81E+00
9.96E-01
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6.17E-01

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4.10E+00
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1.24E-01
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4.19E+00
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1.07E+01
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6.02E+01
5.92E-01
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8.10E-01
9.66E-01
9.67E-01
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2.60E+03
1.19E+05
2.46E+02
9.85E+05
7.47E-02
6.51E-01
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3.08E+02
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2.17E-03
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1.32E+01
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7.50E-01
4.37E-04
1.06E+01
2.45E+00
6.37E+00
1.07E+00
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7.27E-01

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6.24E-01
2.44E-01
6.76E-01
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1.22E+00
7.42E+00
9.73E+00
1.03E+00
5.75E-03
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1.43E-01
9.92E-01
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1.76E-01
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2.39E+01
4.42E+02
1.92E+02
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6.46E+00
1.50E+00
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5.98E-01
6.24E-01
8.04E-01
1.36E+00
9.18E-02
8.46E-01
4.08E+00
3.23E+01
7.25E-01
2.27E+00
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6.60E-04
4.08E-01
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2.83E+00
9.68E-01
4.04E-02

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1.27E-01
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1.67E+00
2.66E+00
1.21E+01
2.08E+01
3.61E+00
4.19E+02
8.46E-01
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1.65E+01
2.00E-04
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9.02E+00
1.16E-01
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8.77E-01
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6.38E-01
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1.75E+00
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9.66E-01
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7.24E-02
1.37E+00
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1.04E-02
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2.40E-03
2.57E+00
1.36E-03
8.86E+01
2.21E+00
1.26E-03
1.11E+00
6.70E+01
2.44E+00
3.05E-02

6.17E-02
1.10E+00
4.92E-01
1.09E+00
1.24E+00
8.05E-03
1.76E+00
5.81E+00
1.18E-03
1.72E-01
3.80E-04
1.91E-01
5.28E-03
3.68E+00
7.41E-01
4.57E+00
4.11E+00
5.72E-01
2.59E-03
2.33E-02
3.96E+00
2.76E-01
8.31E+00
3.27E-01
1.93E+01
4.41E+00
4.54E+01
7.35E+00
1.22E+00
3.06E+00
7.76E-01
1.52E+00
1.07E+01
3.82E+00
3.14E+00
8.00E+00
2.40E+01
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4.08E+01
6.00E-01
5.26E-02
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4.69E-01

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1.64E-01
1.46E+01
4.44E-02
1.14E+00
6.15E+00
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3.42E-01
3.42E-01
2.01E-01
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1.54E-01
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4.51E-01
1.84E-03
2.99E-03
2.49E+02
1.57E+00
5.42E-01
1.28E-10
9.55E+00

8.22E-01
2.88E-02
7.33E-03
2.81E+01
4.15E+00
1.49E-02
3.05E-07
2.29E-01
1.91E-03
8.93E+01
1.02E+01
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1.74E+01
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1.52E+00
1.46E+01
4.99E-01
1.24E+00
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2.12E+01
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1.54E-01
6.55E-01
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9.34E-01
1.20E-01
1.56E-05
5.57E+00
3.61E-01
7.62E-01
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1.07E-03
4.85E-01
6.09E-05
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7.01E-01
7.64E+00
5.51E+00
1.35E+01

4.02E-01
9.82E-01
2.72E+01
4.50E-01
5.53E-01
4.72E-04
2.33E+00
2.96E+01
7.06E-03
2.73E-02
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1.21E-01
5.31E+00
1.09E+00
3.20E+03
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1.08E+00
1.30E-01
8.46E-01
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8.46E-01
8.02E-01
6.47E-01
1.12E+00
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6.15E+00
2.21E-01
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4.77E+01
5.29E-01
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1.50E+01

3.22E-02
1.53E-04
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3.03E+00
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4.21E-01
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1.29E-02
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5.39E-01
1.96E+02
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1.87E+01
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6.35E+00
8.63E-01
8.94E-01
5.38E+00
5.91E-04
1.09E+00
2.76E+00
1.09E-01
3.50E-02
5.56E-02
1.64E-01

1.31E+02
6.52E+00
3.49E+00
1.64E+01
9.76E-01
8.02E-01
3.12E+00
9.43E-01
3.28E+00
3.59E-02
3.54E-02
5.21E-01
9.82E-01
2.13E+00
3.74E-01
8.07E-01
7.41E-01
8.04E-01
8.32E+00
3.26E+06
1.41E-01
1.06E-01
3.28E+00
3.36E-02
1.38E+00
9.40E-01
1.20E+00
1.25E+00
1.57E+02
8.17E-01
5.65E-02
3.34E+00
1.16E+01
7.55E-01
1.42E+01
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2.75E-01
2.71E+02
8.65E-01
2.34E-01
2.01E-01
2.95E-01

1.96E+00
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1.85E-01
6.67E-01
1.73E+00
4.91E-01
7.11E-01
3.63E-01
4.69E+00
4.29E-01
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1.17E+01
1.37E+01
3.56E-01
8.46E-01
4.46E-03
1.48E+00
5.65E-01
1.56E+00
5.42E+00
4.77E+00
2.23E+00
3.19E+00
3.64E-01
6.99E+00
2.83E-03
8.67E-01
5.81E-01
1.72E+00
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6.37E-01
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3.33E-03
7.12E-01
3.43E-02
2.00E-05
1.39E-04
2.49E-01
1.04E+00
1.80E-01
1.34E+02

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7.41E-01
1.63E-01
7.12E-01
5.77E-02
2.11E-01
2.38E+00
2.50E-02
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1.71E+01
5.60E-01
5.25E+00
6.29E-01
9.66E-01
3.18E+00
2.34E+01
8.88E-01
6.29E+00

Method category	Method	Molecular detection	Necessity for a cell-type specific promoter	Requirement for new transgenic lines	Specific target device requirement	Warm populations	Immuno-precipitation with inherent noise	Animal dissociation with possible cell stress	Sequencing dynamic range	Alternative splicing information	Use with rare tissues	Limiting factors	Specificities/advantages	PMID
Dissociation-based	FACS(FANS)/RNA-seq	mRNA	Yes	Possibility to use available markers	FACS	50'000-250'000 animals	No	Yes	High	Yes	Yes with material upscaling	Fragile cells are less easily recovered Cell/nucleus purity after sorting Stress during dissociation/sorting procedure Requirement for one known cell-type specific promoter	High dynamic range Possibility to use available markers Actual transcript profiling	24521213 25372628 26651921 26675724 30266138
	Whole animal scRNA-seq	mRNA	No	No	FACS/10x for cell distribution	50'000-150'000 animals	No	Yes	High overall but low detection per cell	Yes	Yes but number of cells per tissue limited	Small representation of rare/fragile cells Shallow sequencing depth per cell High sequencing costs	No need for antibody No noise inherent to immunoprecipitation-based methods Holistic, covering many cell type in a single experiment	28818308 31488706
RNA tagging/bulking	BRT-seq	SL1-spliced mRNA	Yes	Yes	-	not specified	No	No	High	Yes	Not reported	Limited to SL1 transcripts Requirement for one known	Nucleic acid-based (no immunoprecipitation-related noise)	27567708
	PAT-seq	mRNA bound to PAB-1	Yes	Yes	-	not specified	Yes	No	High	Yes	Yes with material upscaling	Immunoprecipitation-related noise Requirement for one	Information about currently PAB-bound mRNA	28348061
	TRAP-seq	mRNA bound to ribosome	Yes	Yes	-	30'000-50'000 animals	Yes	No	High	Yes	Yes	Immunoprecipitation-related noise Requirement for one	Information about currently translated mRNA	26646677 30589566
Polymerase footprint	RAPID	Methylated DNA	Yes	Partially combinatorial (Cre/lox)	-	4'000 animals	No	No	Limited by GATC frequency	No	Yes	Dissociation limited by cell type density Low dynamic range Requirement for one known cell-type specific promoter	Versatility (easily adaptable to TF footprinting) Scalability (cost-efficient and easy implementation for large sample numbers) Amenable to a low number of cells without increase in noise	This study

Dam fusion	Tissue	All mapped reads	Valid DamID reads
GFP	Intestine	923,726	635,848
GFP	Intestine	1,040,133	667,580
RPB-6	Intestine	925,830	601,895
RPB-6	Intestine	654,936	388,161
GFP	Muscle	2,403,899	1,602,611
GFP	Muscle	6,069,738	4,052,911
RPB-6	Muscle	4,390,733	2,818,242
RPB-6	Muscle	3,848,515	2,452,845
GFP	Worm_wide	5,547,097	2,394,249
GFP	Worm_wide	3,931,529	1,723,329
RPB-6	Worm_wide	1,659,216	1,096,414
RPB-6	Worm_wide	1,896,491	1,171,922
GFP	XXX	1,497,571	933,195
GFP	XXX	1,235,358	837,830
RPB-6	XXX	1,551,848	998,087
RPB-6	XXX	1,028,478	684,604