```
0
0     0     (0,0)
0     0     (1,0)
0     1     (0,1)
0     1     (1,1)
1     1     (0,1)
1     1     (1,1)
1     2     (0,0)
1     2     (1,0)
2     1     (0,1)
2     1     (1,1)
0
1
2
```