

A Persistent Naming System Based on Graph Transformation Rules

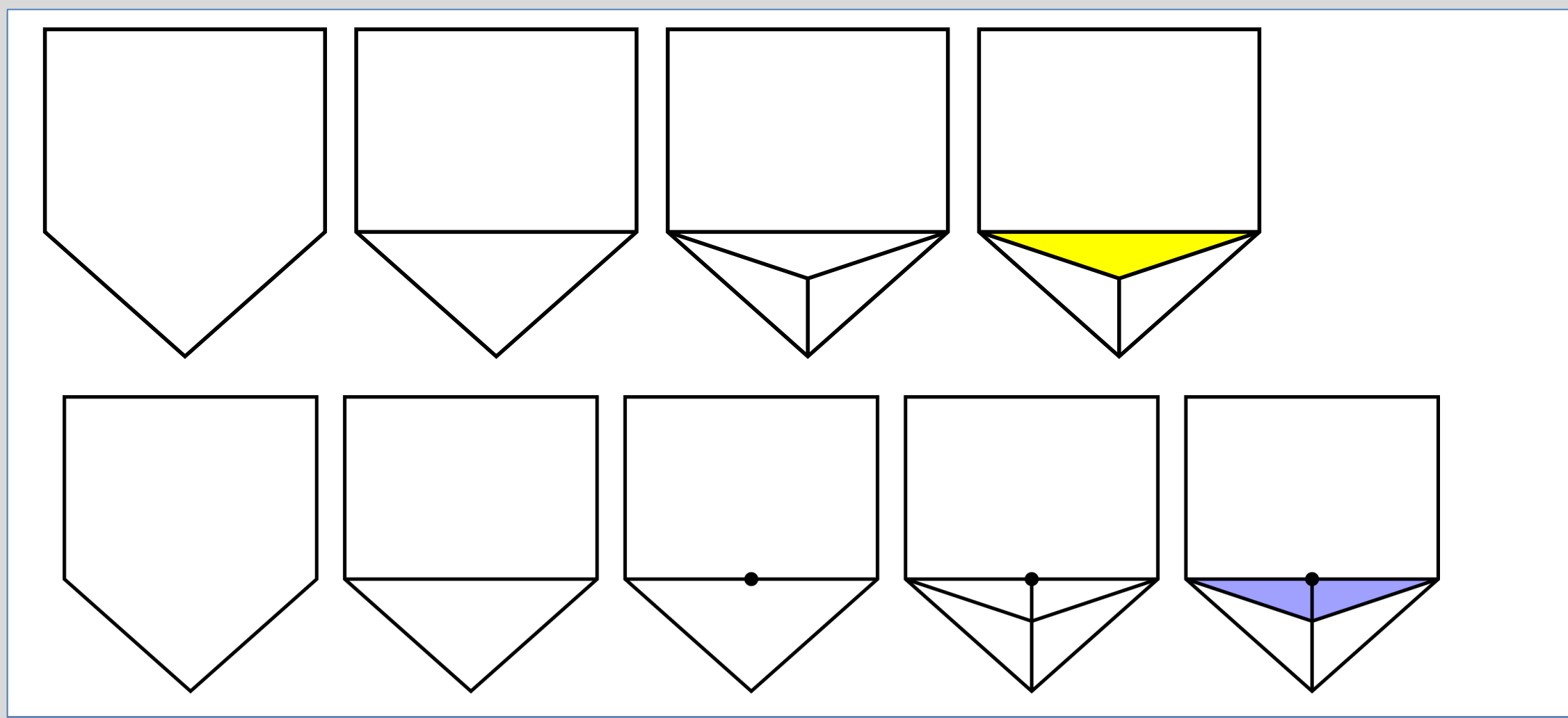
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Additional logos (optional)

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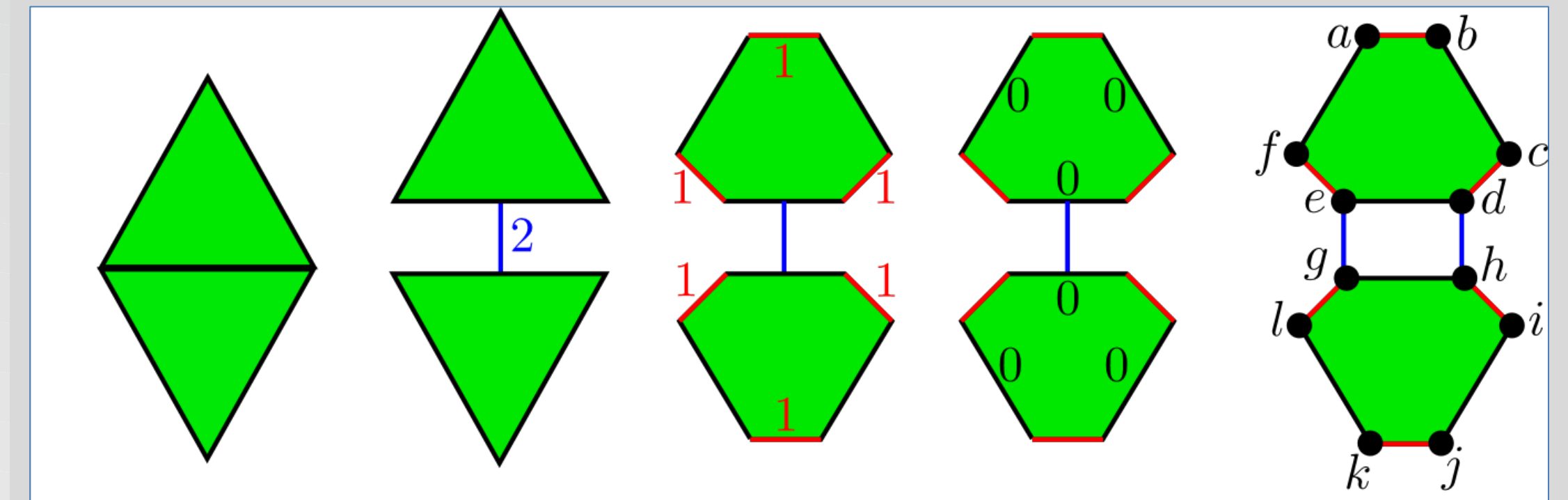
Keywords: Persistent Naming, Reevaluation, G-Maps, Jerboa, Transformation Rules

Objective



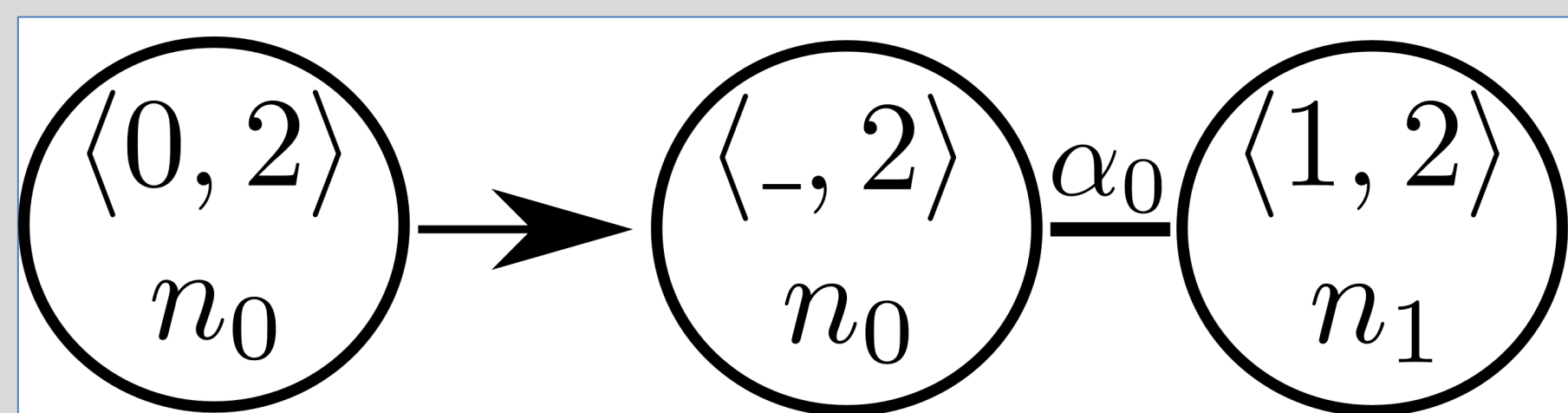
- Solve the persistent naming problem
- Match the entities

Generalized Map

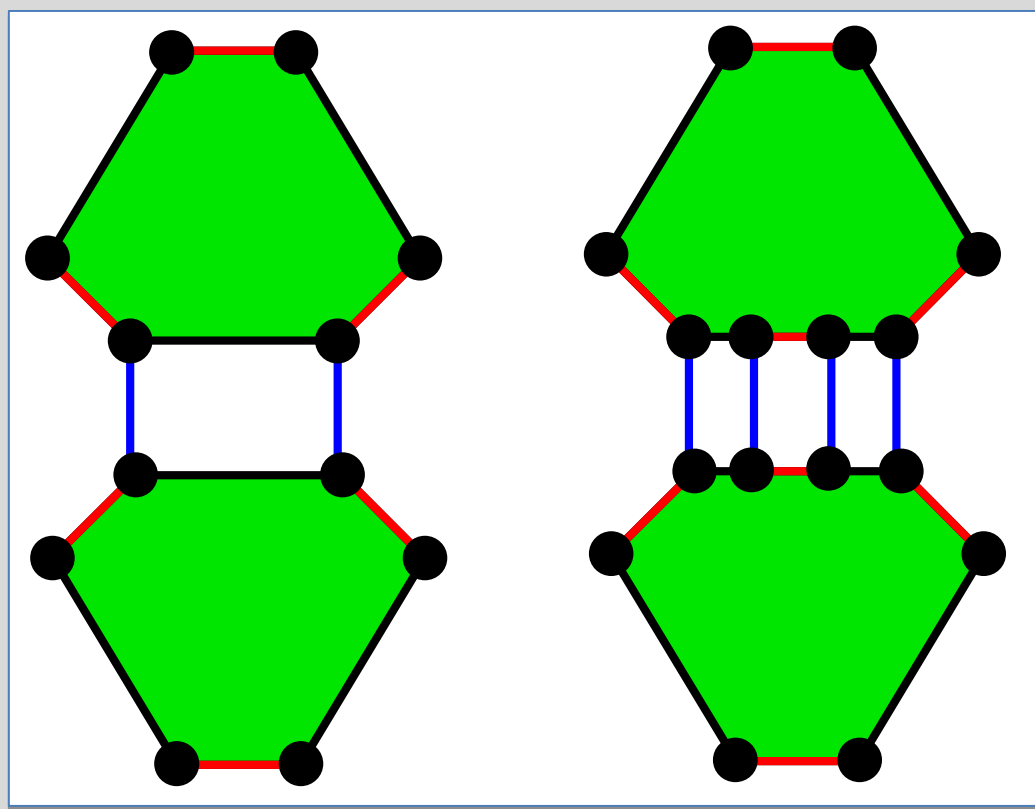


- Topological Model
- Based on boundaries

Jerboa Rules



- Rewrites a GMap

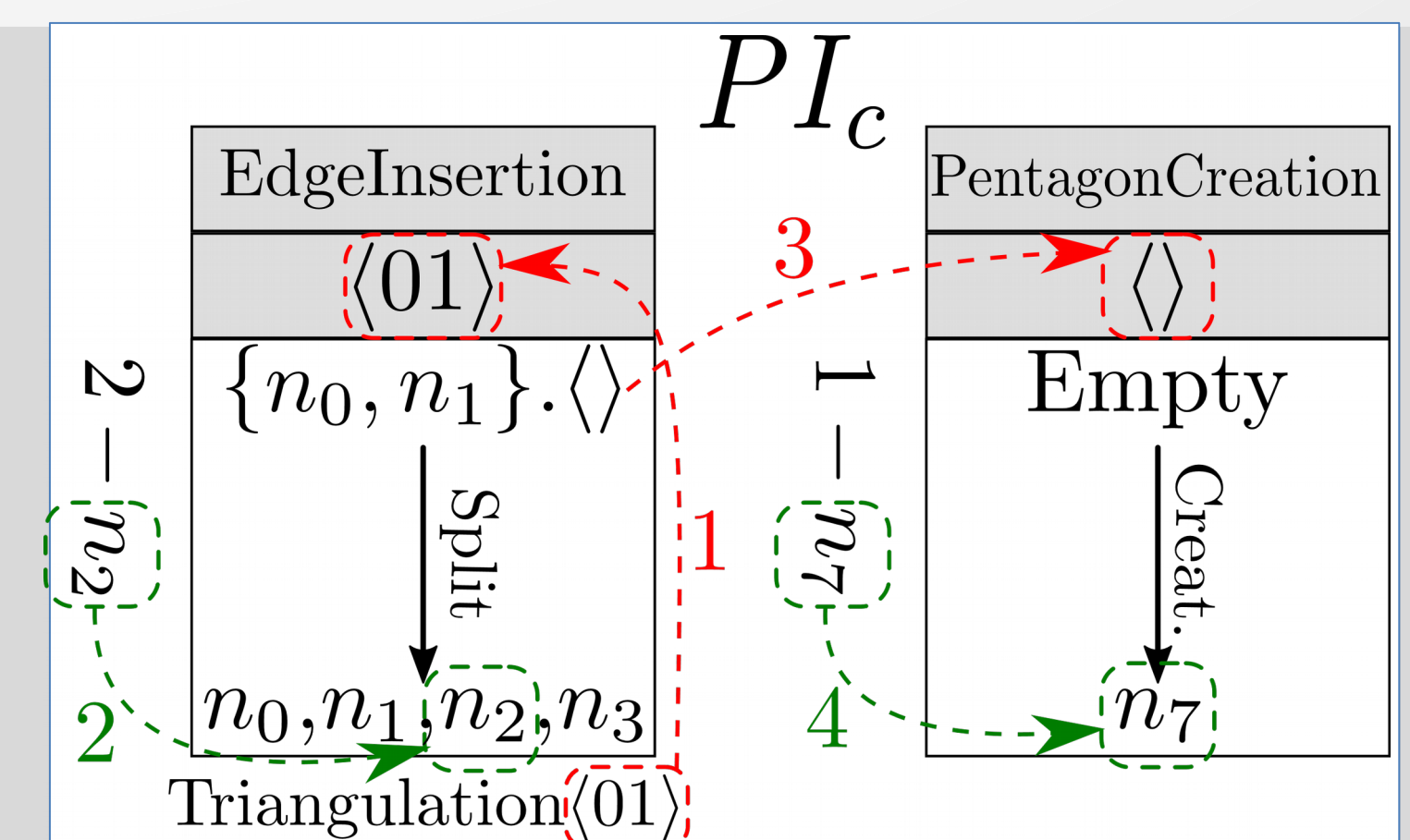
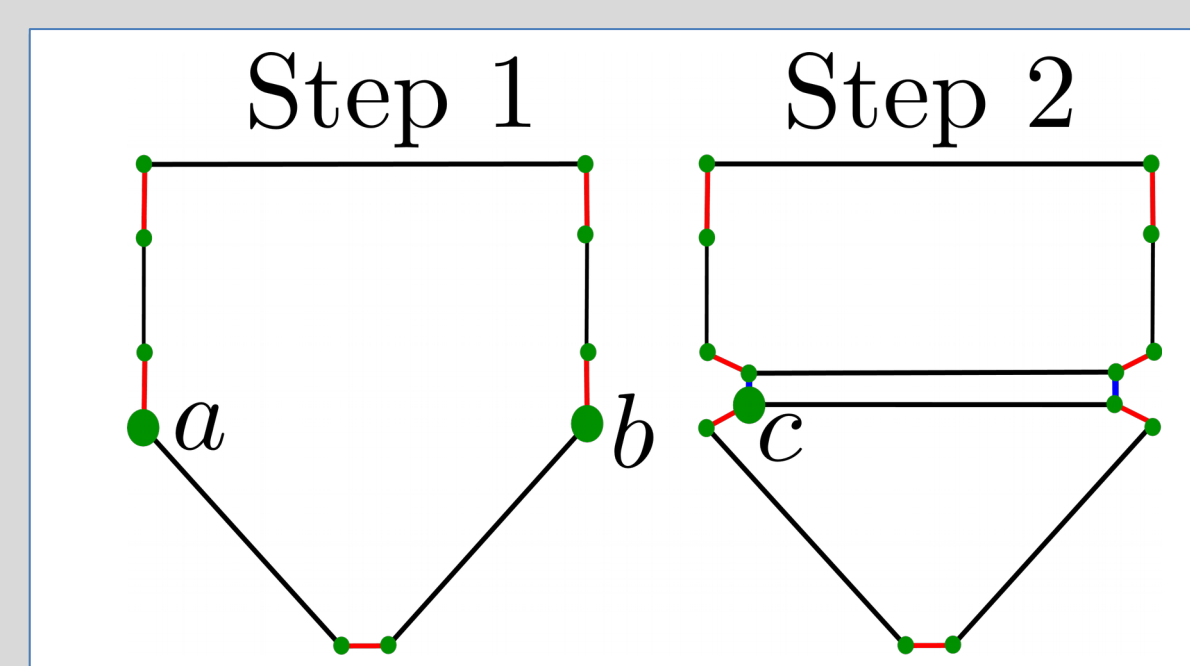


Bulletin Board

$\langle \rangle$	$\langle 0 \rangle$	$\langle 1 \rangle$	$\langle 2 \rangle$
$n_0 \cdot \langle \rangle$	$n_0 \cdot \langle \rangle$	$n_0 \cdot \langle \rangle$	$n_0 \cdot \langle 2 \rangle$
$n_0 \cdot \langle \rangle$	$n_0 \cdot \langle 0 \rangle$	$n_0 \cdot \langle 0 \rangle$	$n_0 \cdot \langle 2 \rangle$
No eff.	Split	No eff.	Creat.
n_0	n_0, n_1	n_0	n_1
$\langle 01 \rangle$	$\langle 12 \rangle$	$\langle 02 \rangle$	$\langle 012 \rangle$
$n_0 \cdot \langle 0 \rangle$	$n_0 \cdot \langle 2 \rangle$	$n_0 \cdot \langle 02 \rangle$	$n_0 \cdot \langle 02 \rangle$
Modif.	No eff.	Split	Modif.
n_0, n_1	n_0	n_0, n_1	n_0, n_1

Persistent Naming and History Record

- Homogenous and general
- Updated with every new operations
- $PN_a = 1-n_7$ and $PN_b = 1-n_4$ after Step 1, $1-n_7; 2n_0$ and $1-n_4; 2n_1$ after Step 2
- c is created from a at Step 2, and $PN_c = 1-n_7; 2-n_2$



Reevaluation

- Made thanks to the History records,
- Completed when an operation is deleted or added

