Summary

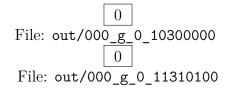
October 16, 2019

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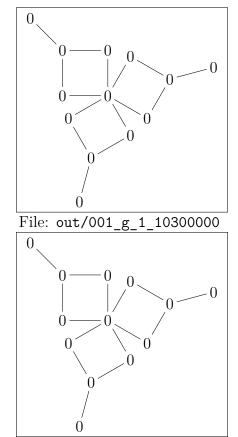
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0.1 Loaded Graphs

0.1.1 Goal



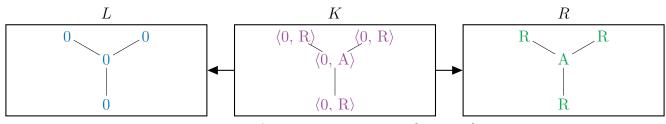
0.1.2 Start



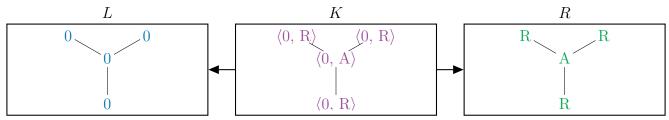
File: out/001_g_1_11310100

0.2 Loaded Rules

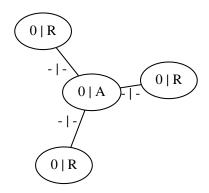
0.2.1 Mark for conversion



Files: out/003_r_0_10300000_{L, K, R}



Files: out/004_r_0_11300100_{L, K, R}



File: out/005_r_0_combined

$$|\{e \in \text{outEdges}(0)\}| = 3$$

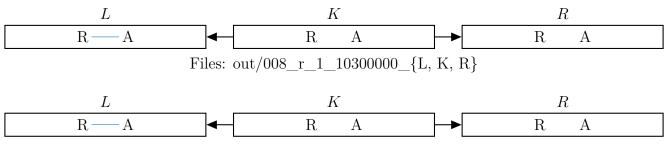
$$\begin{aligned} |\{e \in \text{outEdges}(0) \mid \\ \text{label}(\text{target}(e)) \in \{\text{`0'}\} \\ \}| &= 3 \end{aligned}$$

$$\begin{split} |\{e \in \text{outEdges}(1) \mid \\ \text{label}(\text{target}(e)) \in \{\text{`R'}, \text{`A'}\} \\ \}| = 0 \end{split}$$

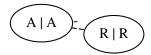
$$\begin{aligned} |\{e \in \text{outEdges}(2) \mid \\ \text{label}(\text{target}(e)) \in \{\text{`R'}, \text{`A'}\} \\ \}| = 0 \end{aligned}$$

$$\begin{split} |\{e \in \text{outEdges}(3) \mid \\ \text{label}(\text{target}(e)) \in \{\text{`R'}, \text{`A'}\} \\ \}| = 0 \end{split}$$

0.2.2 RemoveSingleR



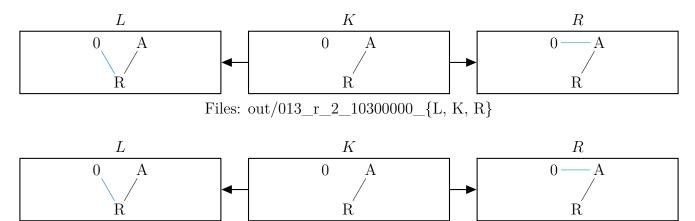
Files: out/009_r_1_11300100_{L, K, R}



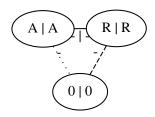
File: out/010_r_1_combined

$$\begin{aligned} |\{e \in \text{outEdges}(1) \mid \\ \text{label}(\text{target}(e)) \in \{\text{`0'}, \text{`R'}\} \\ \}| = 0 \end{aligned}$$

0.2.3 reattachExternalEdge

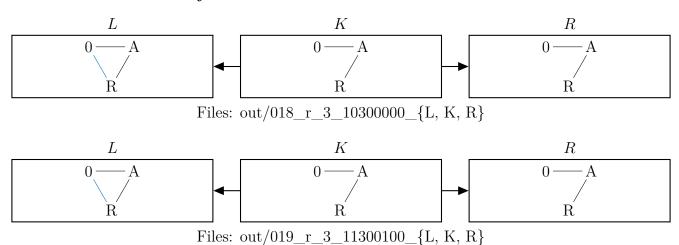


Files: out/014_r_2_11300100_{L, K, R}



File: out/015_r_2_combined

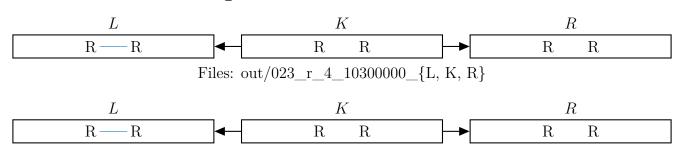
0.2.4 remove Already Attached



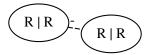
A | A | R | R | R |

File: out/020_r_3_combined

${\bf 0.2.5} \quad {\bf remove Inter REdge}$



Files: $out/024_r_4_11300100_{L, K, R}$

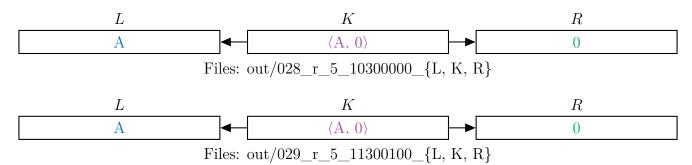


File: out/025_r_4_combined

$$\begin{split} |\{e \in \text{outEdges}(0) \mid \\ \text{label}(\text{target}(e)) \in \{\text{`A'}, \text{`O'}\} \\ \}| = 0 \end{split}$$

$$\begin{aligned} |\{e \in \text{outEdges}(1) \mid \\ \text{label}(\text{target}(e)) \in \{\text{`A'}, \text{`0'}\} \\ \}| = 0 \end{aligned}$$

0.2.6 unmark Collapsed Node

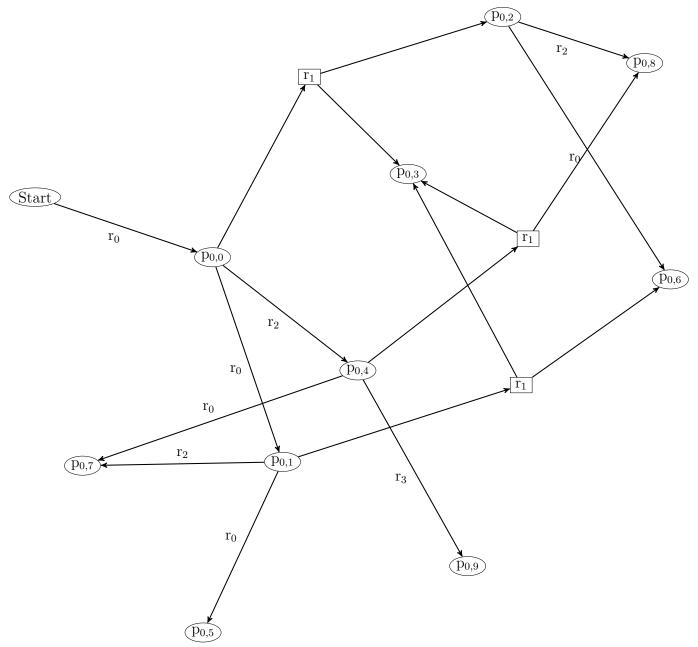


(A | 0)

File: out/030_r_5_combined

$$\begin{aligned} |\{e \in \text{outEdges}(0) \mid \\ \text{label}(\text{target}(e)) \in \{\text{`R'}\} \\ \}| = 0 \end{aligned}$$

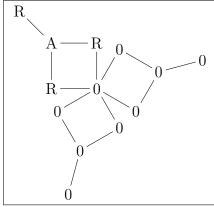
0.2.7 DG Hyper, dg_0



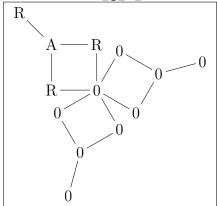
File: out/033_dg_0_10100

0.3 Product Graphs

$0.3.1 p_{0.0}$

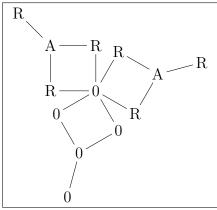


File: out/034_g_2_10300000

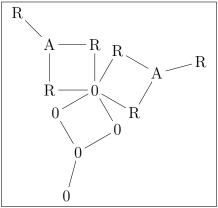


File: out/034_g_2_11310100

0.3.2 p_{0,1}

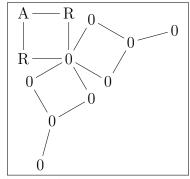


File: out/035_g_20_10300000

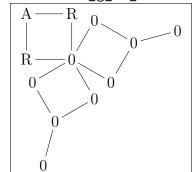


File: out/035_g_20_11310100

0.3.3 p_{0,2}



File: out/036_g_32_1030000



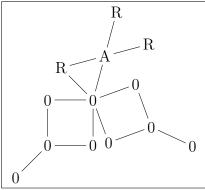
 $File: \ \mathtt{out/036_g_32_11310100}$

0.3.4 p_{0,3}

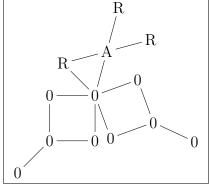
R File: out/037_g_33_10300000

File: out/037_g_33_11310100

$0.3.5 p_{0,4}$

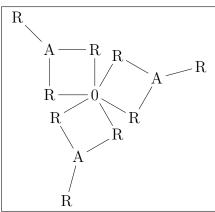


File: out/038_g_34_10300000

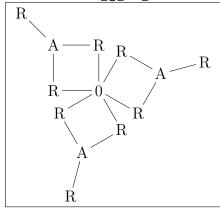


File: out/038_g_34_11310100

$0.3.6 p_{0,5}$

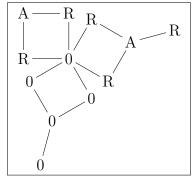


File: out/039_g_36_10300000

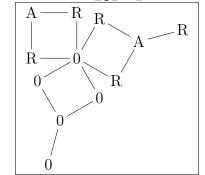


File: out/039_g_36_11310100

$0.3.7 p_{0,6}$

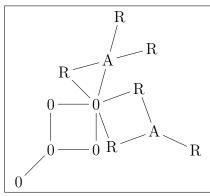


File: out/040_g_42_10300000

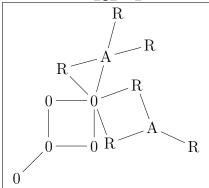


File: out/040_g_42_11310100

$0.3.8 p_{0.7}$

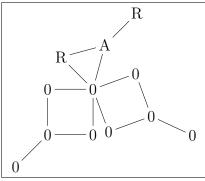


File: out/041_g_54_10300000

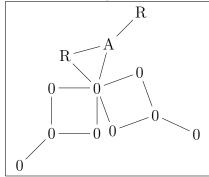


File: out/041_g_54_11310100

$0.3.9 p_{0.8}$

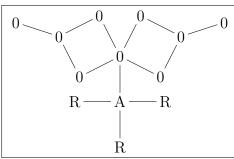


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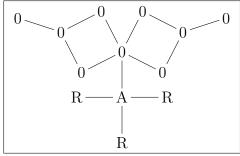


File: out/042_g_70_11310100

$0.3.10 p_{0.9}$



File: out/043_g_80_10300000



File: out/043_g_80_11310100

0.4 Flow Solutions, id 0