

Assignment 7 W202

Outlets:

Trailer 1	Trailer 2	Trailer 3
$((cat, 101), 2)$ $((pat, 101), 1)$ $((mat, 101), 1)$ $((sat, 101), 1)$ $((eat, 101), 1)$	$((pat, 201), 2)$ $((mat, 201), 2)$ $((sat, 201), 1)$ $((eat, 201), 1)$	$((sat, 301), 1)$ $((mat, 301), 2)$ $((cat, 101), 1)$ $((pat, 301), 1)$ $((eat, 301), 1)$

$R_0 (cat, mat, sat)$	$R_1 (pat, cat, sat)$
$((cat, 101), 2)$ $((cat, 301), 1)$ $((mat, 101), 1)$ $((mat, 201), 2)$ $((mat, 301), 2)$ $((sat, 101), 1)$ $((sat, 201), 1)$ $((sat, 301), 1)$	$((eat, 101), 1)$ $((eat, 201), 1)$ $((eat, 301), 1)$ $((pat, 101), 1)$ $((pat, 201), 2)$ $((pat, 301), 1)$

list_{cat}: $\sim \rightarrow \boxed{101 | 2} \rightarrow \boxed{301 | 1}$

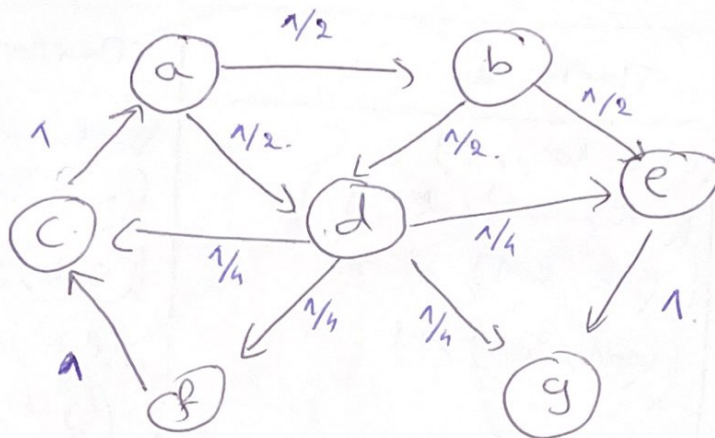
list_{mat}: $\sim \rightarrow \boxed{101 | 1} \rightarrow \boxed{201 | 2} \rightarrow \boxed{301 | 2}$

list_{sat}: $\sim \rightarrow \boxed{101 | 1} \rightarrow \boxed{201 | 1} \rightarrow \boxed{301 | 1}$

list_{eat}: $\sim \rightarrow \boxed{101 | 1} \rightarrow \boxed{201 | 1}$

list_{pat}: $\sim \rightarrow \boxed{301 | 1} \rightarrow \boxed{201 | 2} \rightarrow \boxed{101 | 1}$

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Step	A	B	C	D	E	F	G.
0.	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$
1	$1 \times \frac{1}{7}$	$\frac{1}{2} \times \frac{1}{7} = \frac{1}{14}$	$1 \times \frac{1}{7}$	$\frac{1}{14} + \frac{1}{14} = \frac{1}{7}$	$\frac{1}{2} \times \frac{1}{7} + \frac{1}{4} \times \frac{1}{7} = \frac{3}{28}$	$\frac{1}{28}$	$\frac{1}{28} + \frac{1}{7} = \frac{5}{28}$
2.	$\frac{1}{7}$	$\frac{1}{14}$	$\frac{1}{28}$	$\frac{1}{14} + \frac{1}{16} = \frac{5}{56}$	$\frac{1}{28} + \frac{1}{4} \times \frac{5}{56} = \frac{13}{224}$	$\frac{1}{4} \times \frac{5}{56} = \frac{5}{224}$	$\frac{5}{224} + \frac{13}{224} = \frac{18}{224}$