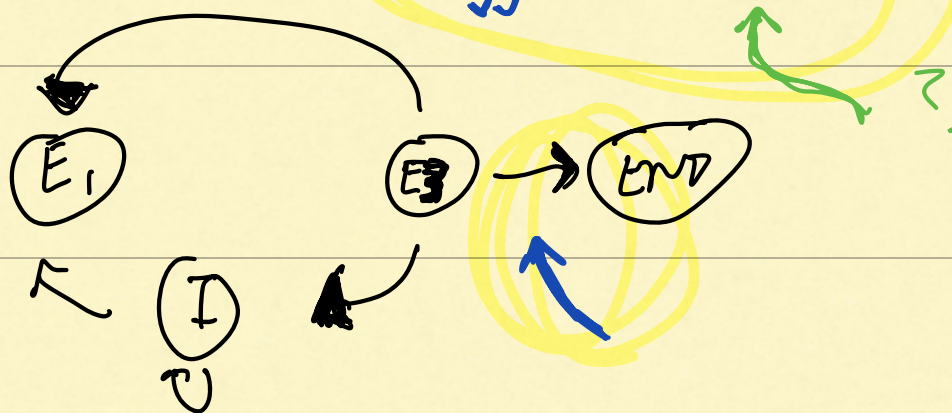


PS 2

6-STATE

S	E ₁	E ₂	E ₃	I	END	
0	0	0	0	0	0	S
1	0	0		$\frac{1}{6000}$	0	E ₁
0	1	0	0	0	0	E ₂
0	0	1	0	0	0	E ₃
0	0	0		$\frac{5200}{6000}$	0	I
0	0	0		0	1	END



BERNOULLI TRIALS

(1-p)

PPP /
 0 0 1 1 0 0 0 0 0 0 0 0
 1 0 0 0

N - # BEFORE FIRST SUCCESS

$N \sim \text{GEOMETRIC}$ WITH MEAN $\frac{1}{p}$

$E3 \rightarrow \text{END}$

WHITEBOARD

SUCCESS: $E3 \rightarrow \text{END}$

FAIL : NOT ENDING
 \Rightarrow ADDING ANOTHER a.a.

$E_{bp} = 6$ | $E_1 = 2$
 $E_2 = 2$
 $E_3 = 2$

$E_{bp} = \text{avg } 6 \text{ bp} | \textcircled{E} = 1$

S 000 | 0000000 | 000 E
 1 3 2

1 2 3
 2 1 3
 3 1 2
 3 2 1
 1 3 2
 2 3 1

NO LECTURE WED OR FRY