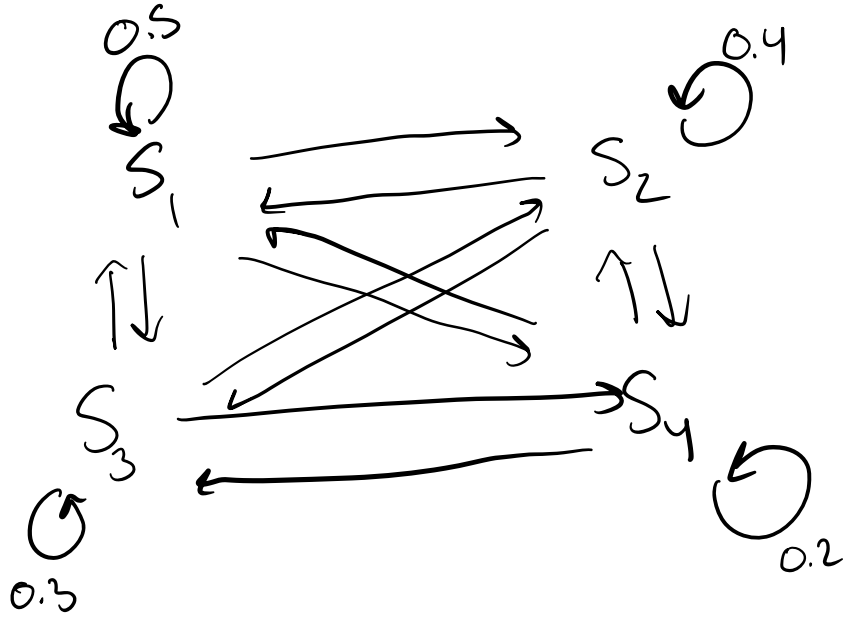OK to post

Anne Somalwar, 9/27/2021 , hw6

1) $n_0(t) = (0.1) n_0(t-1) + (1.2) n_1(t-1)$

   $+ (0.9) n_2(t-1) + (0.1) n_3(t-1)$

$$n_0(t) = (0.1) n_0(t-1) + (1.2)(0.95) n_0(t-2)$$

$$+ (0.9)(0.97) n_0(t-3) + (0.1)(0.9) n_0(t-4)$$

$REC = \{ 0.1, 1.2 \cdot 0.95, 0.9 \cdot 0.97, 0.1 \cdot 0.9 \}$

3)

$$\begin{bmatrix} 0.5 & \frac{0.5}{3} & \frac{0.5}{3} & \frac{0.5}{3} \\ 0.2 & 0.4 & 0.2 & 0.2 \\ \left(\frac{0.7}{3}\right) & \left(\frac{0.7}{3}\right) & 0.3 & \left(\frac{0.7}{3}\right) \\ \left(\frac{0.8}{3}\right) & \left(\frac{0.8}{3}\right) & \left(\frac{0.8}{3}\right) & 0.2 \end{bmatrix}$$