Manu Pchil

Homework 4

c) (a) $e^{-t/20} = .99$

$-t/20 = \ln(.99)$

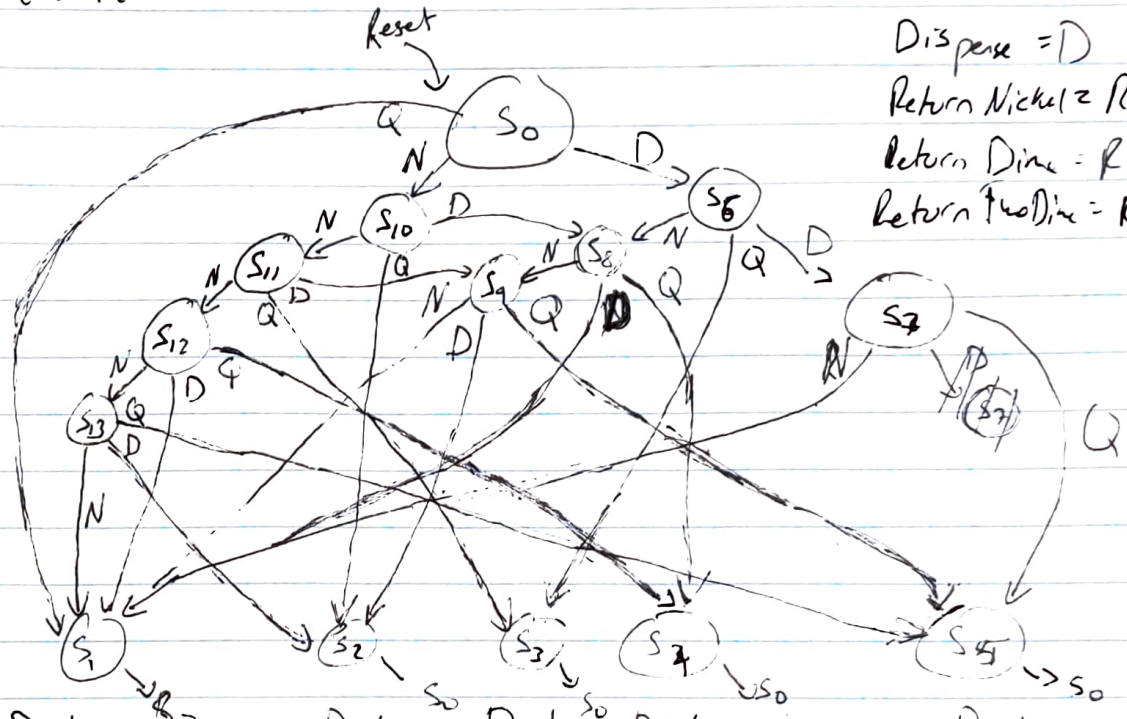
$t = -20 \ln(.99)$

$t = .2\,s$

(b) $e^{-150/20} = .00001234 = .001234\%$

Super low

b.



Dispense = D

Return Nickel = R_N

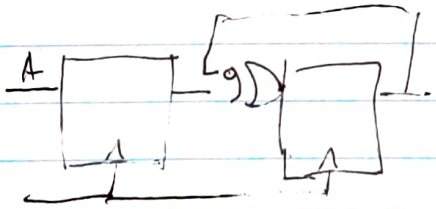
Return Dime = R_D

Return TwoDime = R_{DD}

D=1 → S_0 | D=1 → S_0 | D=1 → S_0 | D=1 → S_0 | D=1 → S_0

$R_N, R_D, R_{DD} = 0$ | $R_N = 1$, $R_D, R_{DD} = 0$ | $R_D = 1$, $R_N, R_D = 1$, $R_N, R_{DD} = 1$, $R_{DD} = 0$ | $R_{DD} = 1$, $R_D, R_N = 0$

a.



Not sure. I tried a lot in Sim but couldn't get it.