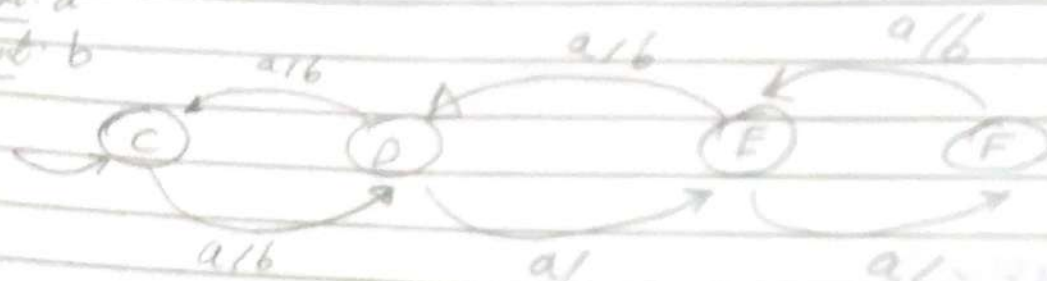


Chapter 5: Question 5

input: a
output: b



Chapter 12: Question 1

$P_1 = 4$ & $P_2 = 6$

a) using $U_i = \frac{C_i}{T_i}$

Task 1 $U_1 = \frac{1}{4} = 0.25$

$U_2 = \frac{e_2}{6} = ?$

$U_1 + U_2 \leq 1$

$U_2 \leq 0.75 \Rightarrow \frac{e_2}{6} \leq 0.75$

$e_2 = 4.5$

b) $e_2 = P_1 - e_1 = 4 - 1 = 3$

c) both have utilization of 1

d) $e_1 = 1$ $P_1 = 4$ $U_1 = 0.25$

$e_2 = 3$ $P_2 = 6$ $U_2 = 0.5$

Utilization: 0.75 #

1

Question 2:

a) $e_1 = 1$ $p_1 = 4$ $p_2 = 6$

$U_1 = 0.25$

$U_2 = \frac{e_2}{6}$

$e_2 = 4.5$

b) Both are the exact same

Question 3:

a) $p_1 = 2$ $e_1 = 1$

$p_2 = 3$ $e_2 = 1$

using $U = \sum_{i=1}^n \frac{e_i}{T_i}$

$U = \frac{1}{2} + \frac{1}{3} = \frac{5}{6}$

b) $U = \frac{e_1}{p_1} + \frac{e_2}{p_2}$ if e_1 & e_2 increase the utilization increases

c) if $e_2 = 1.5$

$U = \frac{1}{2} + \frac{1.5}{3} = 1$ so EDF is feasible

~~Question 6:~~

"I acknowledge that I am aware of the academic integrity guidelines of this course and that I worked on this assignment independently without any unauthorized help"

2)

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