

Assignment - 4

(Initial) sequence - not

① FCFS

P_1	P_2	P_3	P_4	P_5	
05	51	81	19	26	20

Turnaround Time $\rightarrow 11.6$ (average)

$P_1 \rightarrow 5$
 $P_2 \rightarrow 8+5+0+0+5+8+9+16+20 = 11.6$
 $P_3 \rightarrow 9$
 $P_4 \rightarrow 16$
 $P_5 \rightarrow 20$

Waiting Time $\rightarrow 7.6$ (average)

$P_1 \rightarrow 0$
 $P_2 \rightarrow 5$
 $P_3 \rightarrow 8$
 $P_4 \rightarrow 9$
 $P_5 \rightarrow 16$

SJFS

(initial) sequence

<u>3512</u>											
P ₃	P ₂	P ₅	P ₁	P ₄							
19	19	19	29	09	59	19	49	18	93	9	20

GS P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 P16 P17 P18 P19 P20

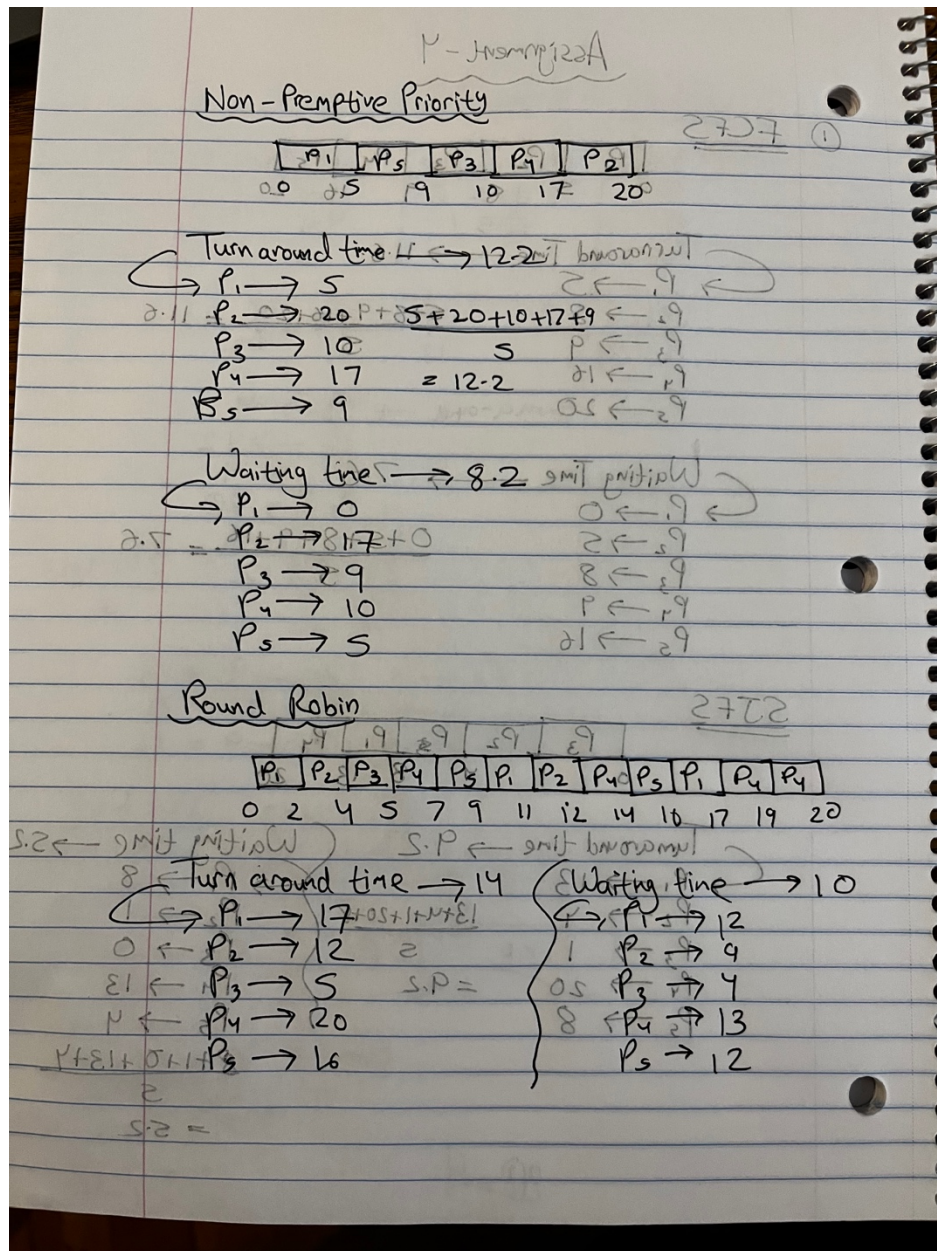
Turnaround time $\rightarrow 9.2$ (average)

$P_1 \rightarrow 8$
 $P_2 \rightarrow 1$
 $P_3 \rightarrow 0$
 $P_4 \rightarrow 13$
 $P_5 \rightarrow 4$

Waiting time $\rightarrow 5.2$

$P_1 \rightarrow 8$
 $P_2 \rightarrow 1$
 $P_3 \rightarrow 0$
 $P_4 \rightarrow 13$
 $P_5 \rightarrow 4$

Question 1 ^^^^



Question 1 (continued)^^^^

(d) SJFS has the least average waiting time with 5.2ms

(2)

P ₁	P ₂	P ₃	P ₄	P ₃	P ₃	P ₃	P ₆	P ₄	P ₂
0	15	20	30	40	45	50	55	70	95

Waiting time → ~~36.67~~ 41.67 Turnaround time → 36.67

P ₁ → 15	P ₁ → 0
P ₂ → 95	P ₂ → 75
P ₃ → 35	P ₃ → 15
P ₄ → 55	P ₄ → 35
P ₅ → 5	P ₅ → 0
P ₆ → 15	P ₆ → 0