POLITICAL PARTIES' ROLE

FOR PROSPERITY AND DEMOCRATIZATION IN ASEAN COUNTRIES

Nama: Prames Ray Lapian

NPM: 14081021005q

Matkul: Sistem Operasi

2.

Proses	Arrival Time	Burst Time	Quantum Time : 1
P_1	0.0	8	
P_2	0.4	4	
P_3	1.0	1	

P_1	P_2	P_3	P_1	P_2	P_1	P_2	P_1	P_2	P_1	P_1	P_1	P_1

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0    1    2    3    4    5    6    7    8    9    10   11   12   13
P₁P₂ P₂   P₃   P₁   P₂   P₁   P₂   P₁   P₂   P₁   P₁   P₁   P₁
     P₃   P₁   P₂   P₁   P₂   P₁   P₂   P₁
     P₁   P₂
     P₁   P₂
```

o Waiting Time:

- $P_1 = 0 + 2 + 1 + 1 + 1 = 5$
- $P_2 = 0,6 + 2 + 1 + 1 = 4,6$
- $P_3 = 1 \qquad = 1$

$$AWT = \frac{5 + 4,6 + 1}{3} = 3,533$$

o Turn Arround Time:

- $P_1 = 5 + 8 = 13$
- $P_2 = 4,6 + 4 = 8,6$
- $P_3 = 1 + 1 = 2$

$$ATAT = \frac{13 + 8,6 + 2}{3} = 7,866$$

3.

Process ID	Arrival Time	Burst Time	Quantum Time : 2
P_1	0	5	
P_2	1	3	
P_3	2	1	
P_4	3	2	
P_5	4	3	

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P_1	P_2	P_3	P_1	P_4	P_5	P_2	P_1	P_5

1 2 3 4 5 6 7 8 9 10 11 12 13 14

P_1 P_2 P_2 P_A P_3 P_1 P_4 P_5 P_2 P_1 P_5

P_3 P_1 P_A P_5 P_2 P_1 P_5

P_1 P_A P_5 P_2 P_1 P_5

P_5 P_2 P_1

P_2

○ Waiting Time :

- $P_1 = 0 + 3 + 5 = 8$
- $P_2 = 1 + 7 = 8$
- $P_3 = 2$
- $P_A = 4$
- $P_5 = 5 + 2 = 7$

AWT $= \dfrac{8 + 8 + 2 + 4 + 1}{5} = 5,8$

○ Turn Arround Time

- $P_1 = 8 + 5 = 13$
- $P_2 = 8 + 3 = 11$
- $P_3 = 2 + 1 = 3$
- $P_4 = 4 + 2 = 6$
- $P_5 = 7 + 3 = 10$

ATAT $= \dfrac{13 + 11 + 3 + 6 + 10}{5} = 8,6$

A.

Process ID	Arrival Time	Burst Time	Quantum Time = 2
P_1	0	4	
P_2	1	5	
P_3	2	2	
P_4	3	1	
P_5	4	6	
P_6	6	3	

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P_1	P_2	P_3	P_1	P_4	P_5	P_2	P_6	P_5	P_2	P_6	P_5

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

P_2 P_2 P_4 P_3 P_1 P_4 P_5 P_2 P_6 P_5 P_2 P_6 P_5

P_3 P_1 P_4 P_5 P_2 P_6 P_5 P_2 P_6 P_5

P_1 P_4 P_5 P_2 P_6 P_5 P_2 P_6 P_5

   P_5 P_2 P_6

   P_2 P_6

° Waiting Time:
- P_1 : 0 + 4 = 4
- P_2 : 1 + 7 + 4 = 12
- P_3 : 2
- P_4 : 5
- P_5 : 5 + 4 + 2 = 11
- P_6 : 7 + 3 = 10

$$AWT = \frac{4+12+2+5+11+10}{6} = 7,333$$

° Turn Around Time
- P_1 : 4 + 4 = 8
- P_2 : 12 + 5 = 17
- P_3 : 2 + 2 = 4
- P_4 : 5 + 1 = 6
- P_5 : 11 + 6 = 17
- P_6 : 10 + 3 = 13

$$ATAT = \frac{8+17+4+6+17+13}{6} = 10,833$$