Nama : Fadhilah Akbar

NIM : 201910370311056

Kelas : Sistem Operasi G

## **Exersice**

Proses	Brust Time	Priority	Wkt Kedatangan
P1	10	3	0
P2	2	1	3
Р3	5	2	4

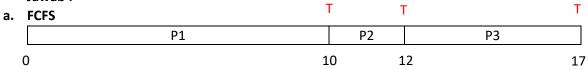
Gambar Gant Chart dan Tentukan Avg. Waiting Time serta Avg. Turn Arround Time dari ketiga proses di atas dengan algoritma :

a. FCFS

b. Round-Robin, q = 2

c. Round-Robin, q = 5

Jawab:



Waiting Time :

P1 = 0

P2 = 10 -3 = 7

P3 = 12 - 4 = 8

Avg. Waiting Time :  $\frac{0+7+8}{3} = 5$ 

Turn Around Time:

P1 = 10

P2 = 12

P2 = 12 -3 = 9 | P3 = 17 - 4 = 13

Avg. Turn Around Time :  $\frac{10+9+13}{3}$  = 10,667

	P1	P2	Р3	P1	P3	P1	Р3	P1	P1	
C		2	4	6	8 1	10	12 1	.3 1	15	17

Waiting Time:

$$P1 = 0+2+2+2+1=7$$
 |  $P2 = 2-3=-1$  |  $P3 = 2+(2-4)+2+2=4$ 

Avg. Waiting Time :  $\frac{7+(-1)+4}{3} = 3,3$ 

Turn Around Time :

$$P1 = 17$$

$$P2 = 4 - 3 = 1$$

Avg. Turn Around Time :  $\frac{17+1+9}{3} = 9$ 

## c. Round-Robin, q = 5

	P1	P2	Р3	P1	
C	) 5	5	7 1	12	17

Waiting Time:

$$P1 = 0+2+5 = 7$$

$$P2 = 5 - 3 = 2$$

$$P1 = 0+2+5 = 7$$
 |  $P2 = 5 - 3 = 2$  |  $P3 = 5 + (2 - 4) = 3$ 

Avg. Waiting Time:  $\frac{7+2+3}{3} = 4$ 

Turn Around Time:

$$P1 = 17$$

$$P2 = 7 - 3 = 4$$

Avg. Turn Around Time :  $\frac{17+4+8}{3}$  = 9,667