

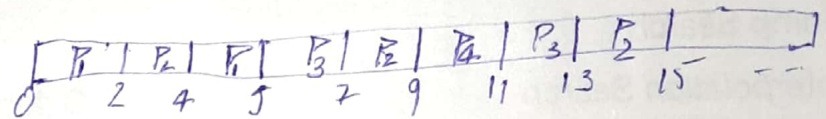
Process	Arrival time	Burst time
P1	0	3
P2	1	6
P3	4	4
P4	6	2

1. For FCFS, Gantt Chart \Rightarrow

$$\text{Avg. Waiting time} = \frac{0 + (9-1) + (9-4) + (13-6)}{4} = \frac{14}{4} = \underline{\underline{3.5}} \text{ (units)}$$

$$\text{Avg. Turnaround time} = \frac{3 + (9-1) + (13-4) + (15-6)}{4} = \frac{29}{4} = \underline{\underline{7.25}} \text{ (units)}$$

2. For Round Robin, ($q=2$)



Avg. Waiting time

Gantt Chart

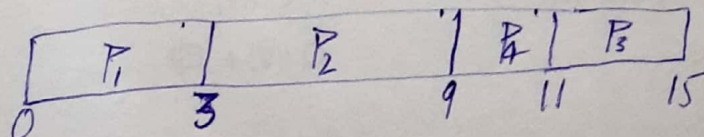
$$= \frac{(4-2) + (5-1) + (5-3) + (15-6) + (13-4-4) + (11-2-6)}{4}$$

$$= \underline{\underline{4.5}}$$

$$\text{Avg. Turnaround time} = \frac{5 + (15-1) + (13-4) + (11-6)}{4}$$

$$= \underline{\underline{8.25}}$$

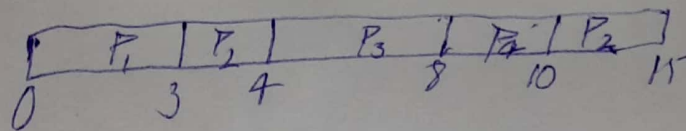
3. For SJF,



$$\text{Avg. Waiting time} = \frac{(0) + (3-1) + (9-6) + (11-4)}{4} = \underline{\underline{3}}$$

$$\text{Avg. Turnaround time} = \frac{3 + (9-1) + (15-4) + (11-6)}{4} = \underline{\underline{6.75}}$$

For SRTF,



$$\text{Avg. Waiting time} = \frac{0 + (15 - 6 - 1) + (8 - 4 + 4) + (10 - 6 - 2)}{4} = 2.5$$

$$\text{Avg. Turn Around time} = \frac{3 + (15 - 1) + (8 - 4) + (10 - 6)}{4} = 6.25$$