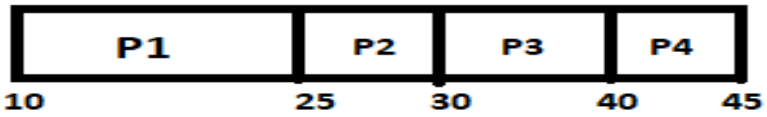
Consider the following set of processes

Process	Arrival time	Burst time	Priority
P1	10	15	3
P2	15	5	2
P3	20	10	4
P4	25	5	1 **(highest)**

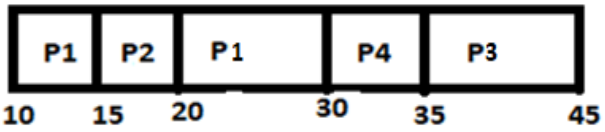
Draw Gantt charts and calculate total average waiting time using these scheduling algorithms:

a. FCFS



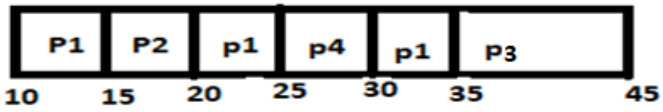
Waiting Time: p1=0, p2=10, p3= 10, p4=15
Average waiting time= (0+10+10+15) / 4= **8.75**

b. preemptive SJF



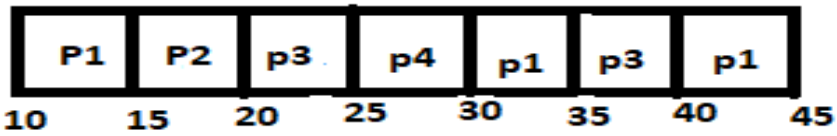
Waiting Time: p1=5, p2=0, p3=15, p4=5
Average waiting time= (5+0+15+5) / 4= **6.25**

c. Priority



Waiting Time: p1=0+15, p2=0, p3=0, p4=15
Average waiting time= (10+0=0+15) / 4=6.25

d. Round Robin (Quantum = 5)



Waiting Time: p1=0+15+5, p2=0, p3=0+10, p4=0
Average waiting time= (20+0+10+0) / 4= **7.5**