First-Come, First-Served (FCFS) Scheduling

Process	Burst Time
P_1	24
P_2	3
P_3	3

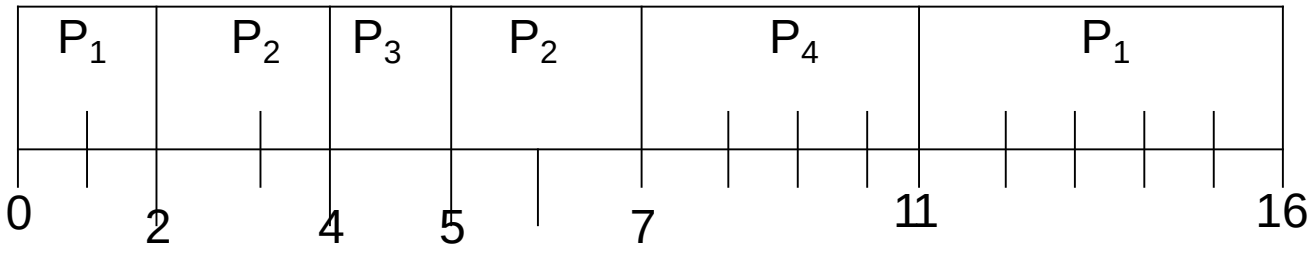
- Suppose that the processes arrive in the order: P_1 , P_2 , P_3
  The Gantt Chart for the schedule is:

- Waiting time for P_1 = 0; P_2 = 24; P_3 = 27
- Average waiting time: (0 + 24 + 27)/3 = 17

Example of Preemptive SJF

Process	Arrival Time	Burst Time
P_1	0.0	7
P_2	2.0	4
P_3	4.0	1
P_4	5.0	4

- SJF (preemptive) (= SRTF)

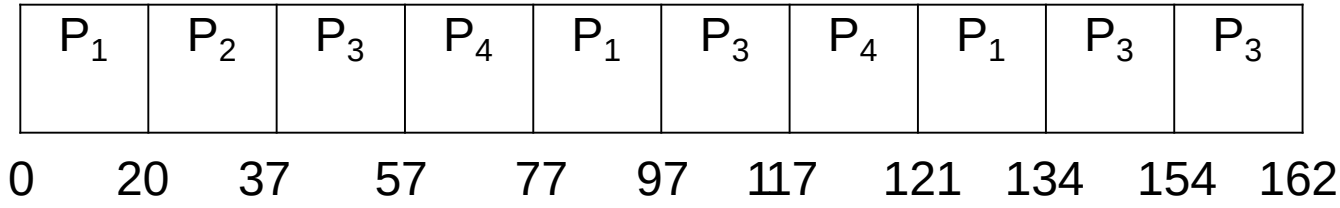


- Average waiting time = (9 + 1 + 0 +2)/4 = 3

Example of RR with Time Quantum = 20

Process	Burst Time
P_1	53
P_2	17
P_3	68
P_4	24

- The Gantt chart is:



- Average waiting time: (81 + 20 + 94 + 97)/4 = 73

Term Project #2

Process	Arrival Time	Burst Time
P_1	0.0	10
P_2	3.0	12
P_3	7.0	4
P_4	10.0	6
P_5	14.0	8
P_6	15.0	7

- First Come First Served (FCFS)
- Preemptive Shortest Job First (SJF)
- Round Robin (Time Quantum = 3)
- Print the process progress and average waiting Time