First Come First Serve (FCFS)

PNO	AT	BT	CT	TAT	WT	RT
P_1	0	2	2	2	0	0
P_2	1	2	4	3	1	1
P_3	5	3	8	3	0	0
P_4	6	4	12	6	2	2

WT = RT

Non-preemptive

Completely Complete Execution

Gantt chart

TAT = CT - AT

$TAT(P_1) = 2-0 = 2$

$TAT(P_2) = 4-1 = 3$

$TAT(P_3) = 8-5 = 3$

$TAT(P_4) = 12-6 = 6$

WT = TAT - BT

$WT(P_1) = 2-2 = 0$

$WT(P_2) = 3-2 = 1$

$WT(P_3) = 3-3 = 0$

$WT(P_4) = 6-4 = 2$

$RT(P_1) = 0-0 = 0$

$RT(P_2) = 2-1 = 1$

$RT(P_3) = 5-5 = 0$

$RT(P_4) = 8-6 = 2$

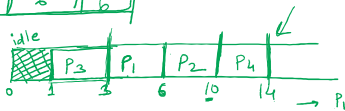
Shortest Job First (SJF)

PNO	AT	BT	CT	TAT	WT	RT
P_1	1	3	6	5	2	2
P_2	2	4	10	8	4	4
P_3	1	2	3	2	0	0
P_4	4	4	14	10	6	6

Criteria = BT

Mode = Non-preemptive

Gantt chart



→ $P_1 P_3$

→ $P_1 P_2$

→ $P_2 P_4$

→ P_4

TAT = CT - AT

WT = TAT - BT

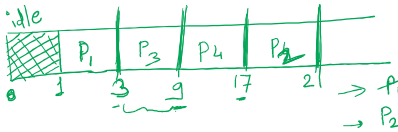
Longest Job First (LJF)

Criteria = BT

Mode = Non-preemptive

PNO	AT	BT	CT	TAT	WT	RT
P_1	1	2	3	2	0	0
P_2	2	4	21	19	15	15
P_3	3	6	9	6	0	0
P_4	4	8	17	13	5	5

Gantt chart



→ P_1

→ $P_2 P_3$

→ $P_2 P_4$

→ P_2

TAT = CT - AT

WT = TAT - BT

Non-preemptive

- FCFS
- SJF
- LJF