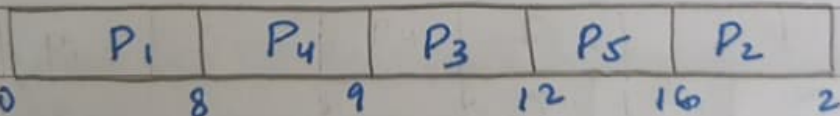
SJF (Shortest Process Next)

(Non-Preemptive)

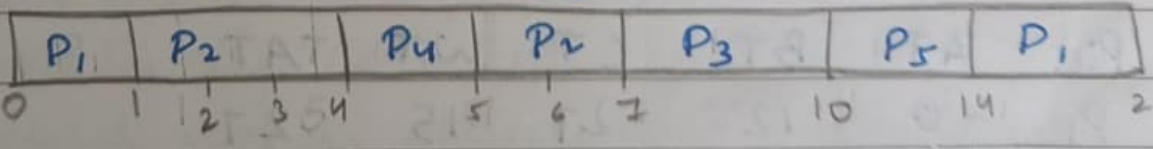
Process	AT	BT	CT	WT	TAT
P_1	0	8	8	0	8
P_2	1	5	21	15	20
P_3	3	3	12	6	9
P_4	4	1	9	4	5
P_5	6	4	16	6	10

Non-preemptive



SJF (Shortest Remaining time next) or first

Preemptive



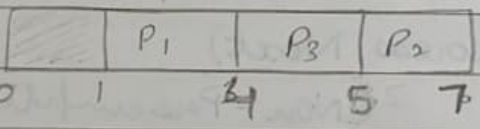
WT = TAT - BT
TAT = CT - AT

Process	AT	BT	CT	WT	TAT
P_1	0	8	21	13	21
P_2	1	5	7	1	6
P_3	3	3	10	4	7
P_4	4	1	5	0	1
P_5	6	4	14	4	8

SRTF (Shortest Remaining Time First)

1)

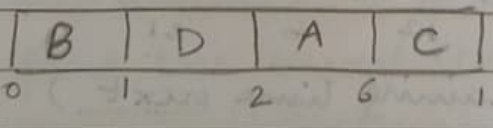
Pid	AT	BT	CT	WT	TAT
P_1	1	3	4	0	3
P_2	2	2	7	3	5
P_3	3	1	5	1	2



SR

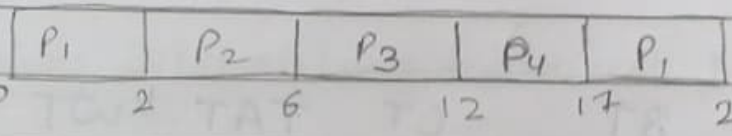
2)

Pid	AT	BT	CT	WT	TAT
A	0	4	6	2	6
B	0	1	1	0	1
C	0	8	14	6	14
D	0	1	2	1	2



3)

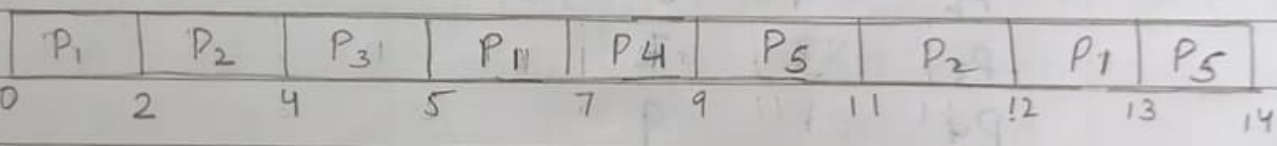
Pid	AT	BT	CT	WT	TAT
P_1	0	12	27	15	27
P_2	2	4	6	0	4
P_3	3	6	12	3	9
P_4	8	5	17	4	9



Round Robin

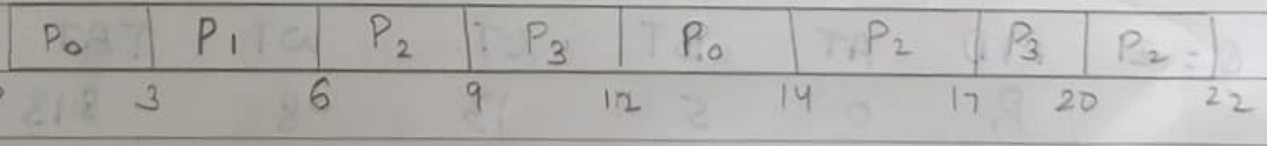
$q = 2$

PID	AT	BT	CT	TAT	WT
P_1	0	~~5~~ 3	13	13	8
P_2	1	~~3~~ 1	12	11	8
P_3	2	~~1~~	5	3	2
P_4	3	2	9	6	4
P_5	4	~~3~~ 1	14	10	7



$q = 3$

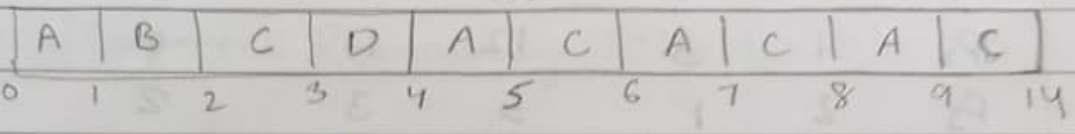
PID	AT	BT	CT	TAT	WT
P_0	0	5	11	11	6
P_1	1	3	~~11~~ 6	5	2
P_2	2	8	22	20	12
P_3	3	6	20	17	11



Q- 4 jobs to be executed on a single processor system arrive at time 0 in order A, B, C, D Their burst CPU requirements are 4, 1, 8, 1 respectively. Calculate TAT, WT, CT under round robin scheduling with time slice of 1 time unit.

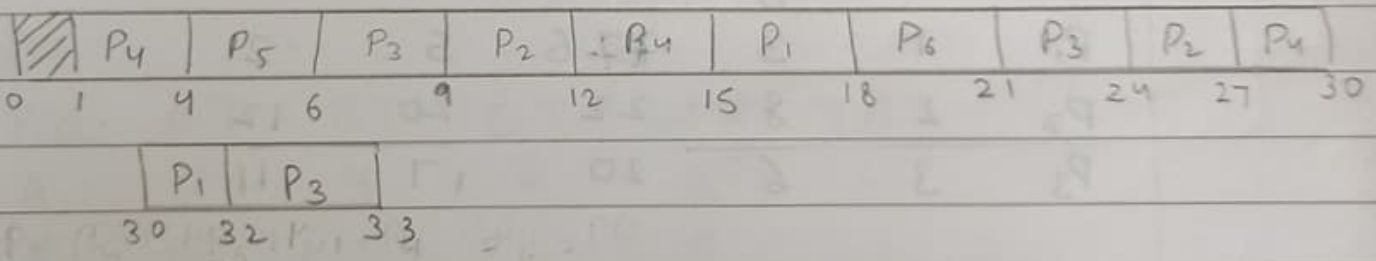
→ $q = 1$

PID	AT	BT	CT	TAT	WT
A	0	4	9	9	5
B	0	1	3	3	2
C	0	8	14	14	6
D	0	1	4	4	3



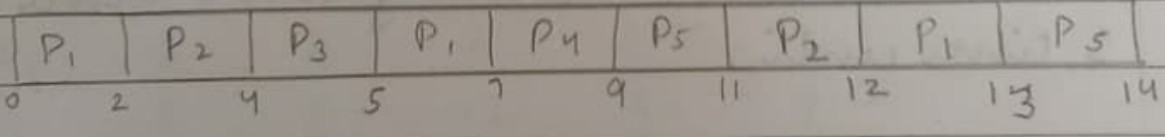
$q = 3$

PID	AT	BT	CT	TAT	WT
P_1	5	5	32	27	22
P_2	4	6	27	23	17
P_3	3	7	33	30	23
P_4	1	9	30	29	20
P_5	2	2	6	4	2
P_6	6	8	21	15	12



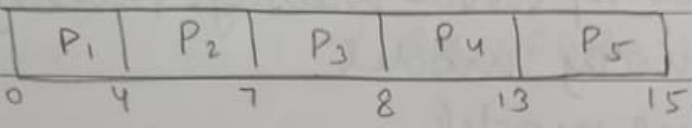
$q = 2$

PID	AT	BT	CT	WT	TAT
P_1	0	5	13	8	813
P_2	1	3	12	8	11
P_3	2	1	5	2	3
P_4	3	2	9	4	6
P_5	4	3	14	7	10



Priority Scheduling (Lowest No. Highest Priority)

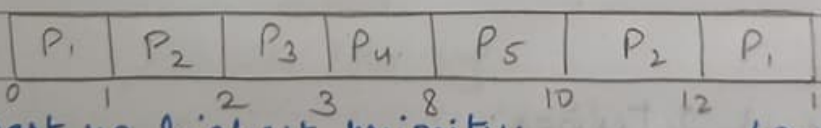
PID	AT	BT	Priority	CT	TAT	WT
P_1	0	4	2	4	4	0
P_2	1	3	3	7	6	3
P_3	2	1	4	8	6	5
P_4	3	5	5	13	10	5
P_5	4	2	5	15	11	9



Pre emptive

Priority Scheduling (Highest No. Highest Priority)

PID	AT	BT	Priority	CT	TAT	WT
P_1	0	4	2	15	15	11
P_2	1	3	3	12	11	8
P_3	2	1	4	3	1	0
P_4	3	5	5	8	5	0
P_5	4	2	5	10	6	4



Lowest no. highest priority: ~~Lowest no. highest priority~~

PID	AT	BT	Priority	CT	TAT	WT
P_1	1	~~3~~ 1	2	~~7~~	6	3
P_2	2	2	2	6	4	2
P_3	3	1	1	4	1	0