a) Round Robin with Quantum 3

b) Preemptive SJF
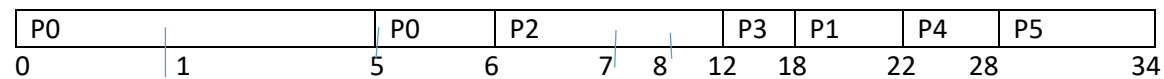
c) Non Preemptive SJF

d) Preemptive Priority

e) Non Preemptive Priority

Process	Burst time	Arrival time	Priority
P0	6	0	3
P1	4	1	3
P2	6	5	1
P3	6	6	1
P4	6	7	5
P5	6	8	6

E) NON Preemptive Priority

PO		PO	P2		P3	P1	P4	P5

0   1   5   6   7 8   12   18   22   28   34
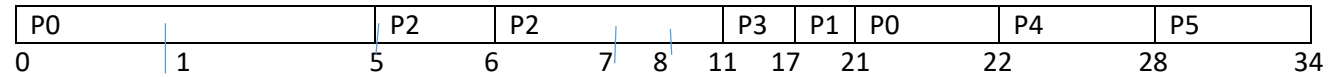
$PO(6)^3$ $P1(4)^3$ $P2(6)^1$ $P3(6)^1$ $P4(6)^5$ $P5(6)^6$

SAME PRIORITY, NO PREEMPTION, TO REDUCE CONTEXT SWITCH

SAME PRIORITY, CHOOSE FCFS
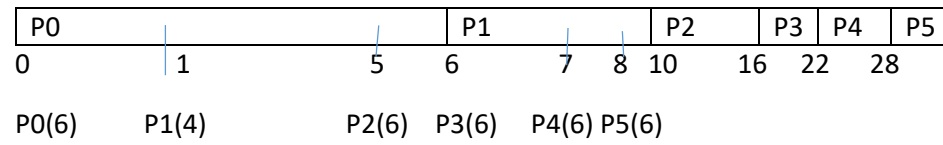
d) Preemptive Priority

$PO(1)^3$

PO				P2	P2				P3	P1	PO		P4		P5	
0	1		5		6	7	8	11	17	21		22		28		34

$PO(6)^3$ $P1(4)^3$ $P2(6)^1$ $P3(6)^1$ $P4(6)^5$ $P5(6)^6$

SAME PRIORITY, NO PREEMPTION, TO REDUCE CONTEXT SWITCH

SAME PRIORITY, CHOOSE FCFS

	ARRIVAL TIME	BURST TIME	FINISHING TIME	TURNAROUND TIME	WAITING TIME
P0	0	6	22	22	16
P1	1	4	21	20	16
P2	5	6	11	6	0
P3	6	6	17	11	5
P4	7	6	28	21	15
P5	8	6	34	26	20

C) noN Preemptive SJF

PO			P1			P2	P3	P4	P5

0   1   5   6   7   8   10   16   22   28

P0(6)   P1(4)   P2(6)   P3(6)   P4(6) P5(6)

- IF BURST TIME SAME, CHOOSE FCFS

b) Preemptive SJF

P0(5)   P1(0) P0(4)   P0(3) P0(2)

PO	P1		PO	PO			P2	P3	P4		P5

0   1   5   6   7 8   10   16 22   28 34

P0(6)   P1(4)   P2(6)   P3(6)   P4(6) P5(6)
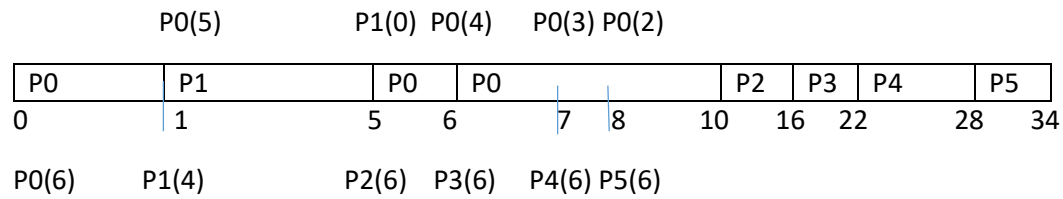
- If same burst time, look for priority
- If same priority, look for FCFS

Non Preemptive Priority

PO		PO		PO		P2				P3		P1		P4	P5

0   1   5   6   7   8   12   18   22   28   34

$P0(6)^3$ $P1(4)^3$ $P2(6)^1$ $P3(6)^1$

                                $P4(6)^5$ $P5(6)^6$
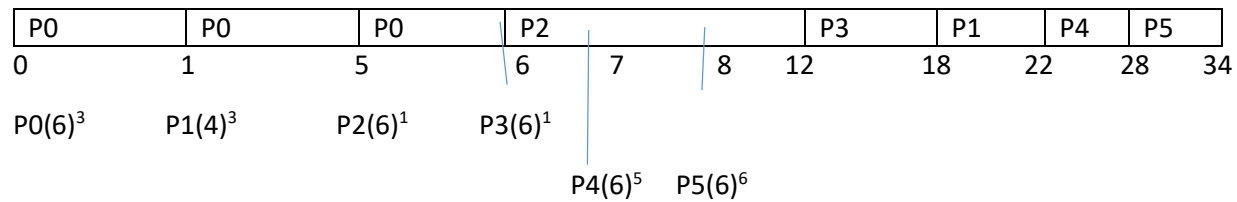
- If same priority, look for FCFS

Preemptive Priority

$PO(1)^3$

PO	PO	P2				P3	P1	PO	P4	P5

0   1   5   6   7   8   11   17   21   22   28   34

$PO(6)^3$ $P1(4)^3$ $P2(6)^1$ $P3(6)^1$

$P4(6)^5$ $P5(6)^6$
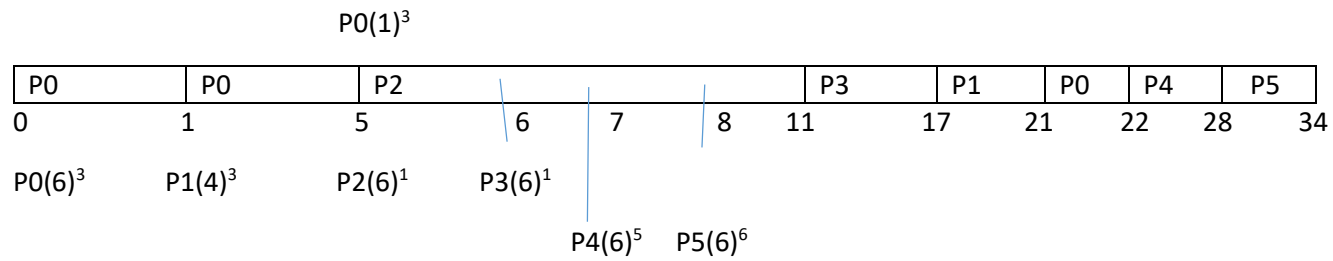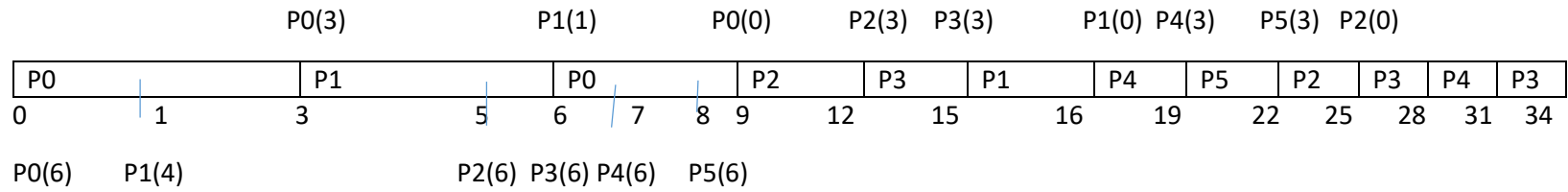
- If same priority, no preemption, to reduce context switch
- If same priority, look for FCFS

C) NON Preemptive SJF
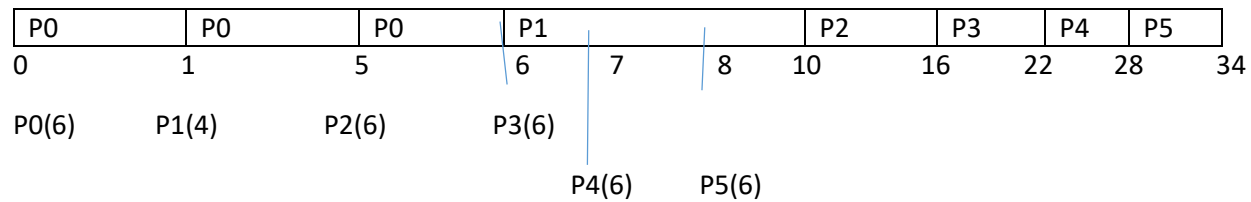
PO	PO	PO	P1			P2	P3	P4	P5

0   1   5   6   7   8   10   16   22   28   34

$PO(6)$ $P1(4)$ $P2(6)$ $P3(6)$

$P4(6)$ $P5(6)$

a) Round Robin with Quantum 3

| | | | PO(3) | | | P1(1) | | PO(0) | | P2(3) | P3(3) | | P1(0) | P4(3) | | P5(3) | P2(0) | | |

PO		P1		PO		P2	P3	P1		P4	P5	P2	P3	P4	P3

0   1   3   5   6   7   8 9   12   15   16   19   22   25   28   31   34

PO(6)   P1(4)   P2(6) P3(6) P4(6)   P5(6)

	ARRIVAL TIME	bURST TIME	FINISHING TIME	TURNAROUND TIME	WAITING TIME
P0	0	6	9	9	3
P1	1	4	16	15	11
P2	5	6	25	20	14
P3	6	6	34	28	22
P4	7	6	31	24	18
P5	8	6	22	16	10