14/05/2021

# Priority Algo.

- preemptive.
- Non preemptive

Priority ↑ (← CPU allocate)

① 1, 2, 3, 4
↑ higher priority

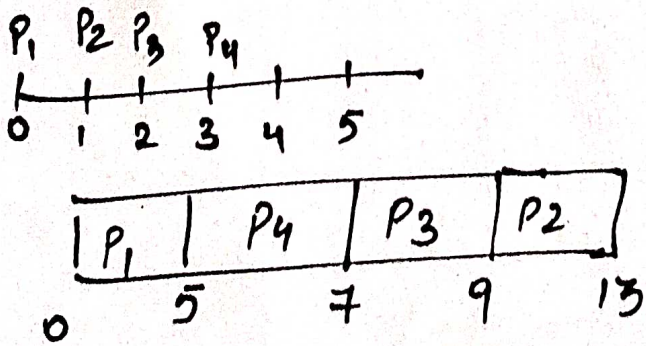
② 4, 2, 3, 1
↑ higher priority

Question 1 priority → Non preemptive

| Priority | Process | AT | BT |
|---|---|---|---|
| x 10 | $P_1$ | 0 | ~~5~~ 4 |
| x 20 | $P_2$ | 1 | ~~4~~ 3 x |
| x 30 | $P_3$ | 2 | ~~2~~ 1 x |
| x 40 | $P_4$ | 3 | 2 x |

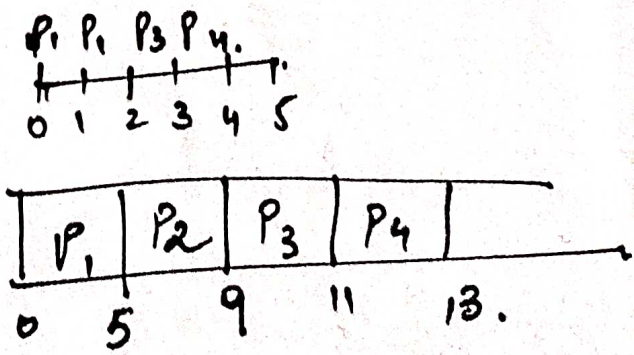
higher No. → higher priority

$P_4 > P_3 > P_2 > P_1$




lower No → higher priority

$P_1 > P_2 > P_3 > P_4$

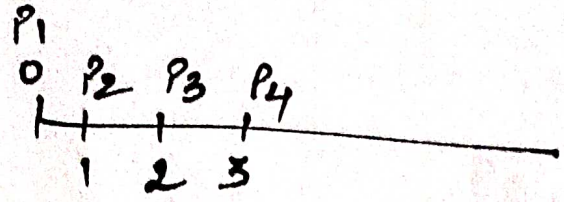


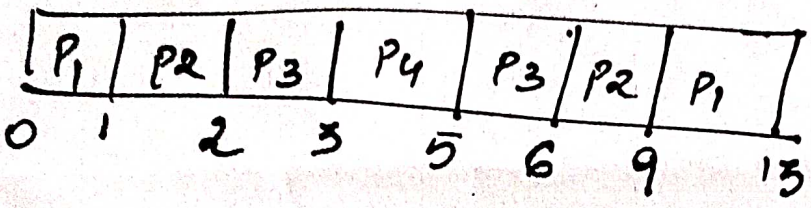
Same as question 1

Ques 2

Preemptive.

higher No. → higher priority.



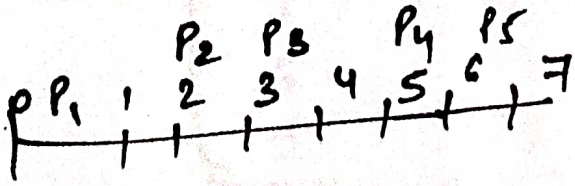

| Question No. | Priority | Process | AT | BT |
|---|---|---|---|---|
| ½. | 5 | $P_1$ | 0 | ~~7~~ ~~6~~ ~~5~~ |
| X | 4 | $P_2$ | 2 | ~~4~~ 3 |
| → X | 1 | $P_3$ | 3 | ~~3~~ ~~2~~ ~~1~~ 0 |
| X | 2 | $P_4$ | 5 | 2 |
| X | 3 | $P_5$ | 6 | 1 |

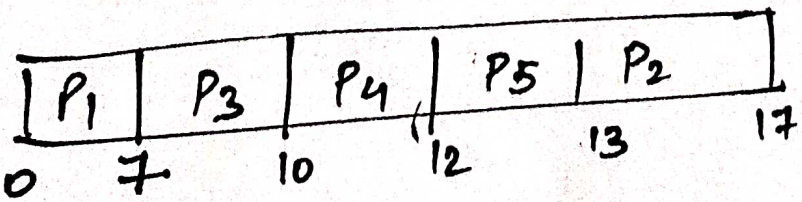
~~7~~ 6
~~4~~ 3
~~3~~ ~~2~~ ~~1~~ 0
2
1

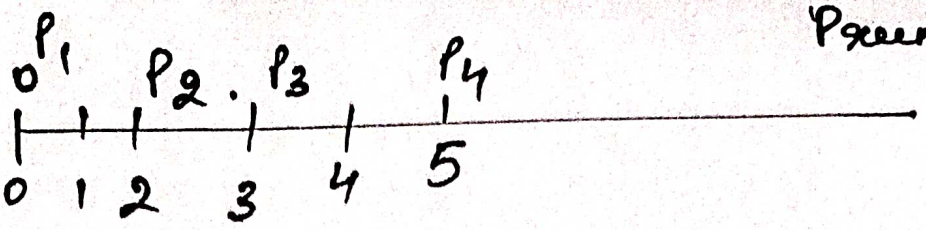
Queue No. → higher priority.

$P_3 > P_4 > P_5 > P_2 > P_1$

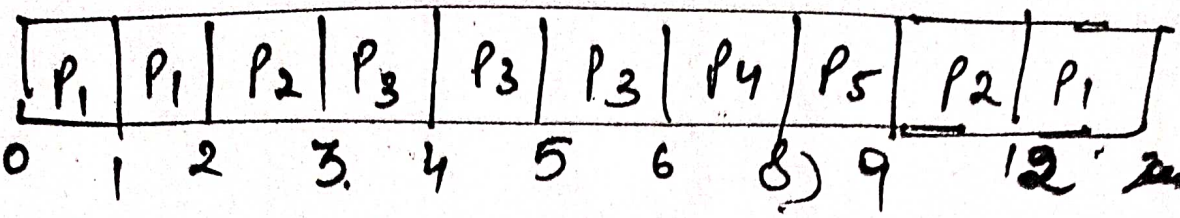
Non-preemptive






Preemptive question 3.




Question 4. Priority (Preemptive — Non Preemptive).

| Priority | Process | AT | BT |
|---|---|---|---|
| 7 | $P_1$ | 1 | 1 |
| 8 | $P_2$ | 2 | 1 |
| 9 | $P_3$ | 3 | 1 |
| 6 | $P_4$ | 4 | 21 |
| 5 | $P_5$ | 6 | 2 |