

PREEMPTIVE PRIORITY SCHEDULING ALGORITHM

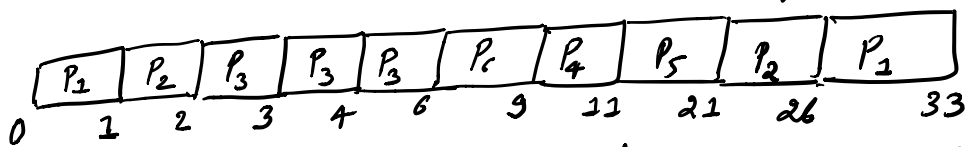
Priority scheduling can be both preemptive and nonpreemptive,

SJF \rightarrow nonpreemptive priority scheduling

SRTF \rightarrow preemptive priority scheduling

	Priority	AT	BT	ST	CT	TAT	WT	RT
P_1	6 \leftarrow	0	87	0	33	33	25	0
P_2	8	1	85	1	26	25	19	0
P_3	12 \leftarrow	2	82	2	6	4	0	0
P_4	10	3	2	9	11	8	6	6
P_5	9	4	10	11	21	17	7	7
P_6	11	6	3	6	9	3	0	0

Higher the no, higher is priority. I/O \rightarrow 0



$$\left\{ \begin{array}{l} \text{Avg TAT} = (33 + 25 + 4 + 8 + 17 + 3) / 6 \\ \text{Avg WT} = (25 + 19 + 6 + 7) / 6 \\ \text{Avg RT} = (6 + 7) / 6 \end{array} \right.$$

$$\begin{aligned} \text{TAT} &= \text{CT} - \text{AT} \\ \text{WT} &= \text{TAT} - \text{CPU BT} - \text{I/O BT} \\ \text{RT} &= \text{ST} - \text{AT} \end{aligned}$$

$$\text{CPU utilization} = \frac{33}{33} \times 100\%$$

$$\text{Throughput} = \frac{6}{33 - 0} = \frac{6}{33}$$

$\frac{\text{Max(CT)} - \text{Min(AT)}}{\text{ }}$

