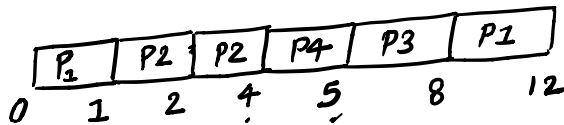


SHORTEST REMAINING TIME FIRST(SRTF) SCHEDULING ALGORITHM

● Preemptive SJF is also called as SRTF.

		AT	BT	ST	CT	TAT	WT	RT
X	P1	0	8	0	12	12	7	0
X	P2	1	2	1	4	3	0	0
X	P3	→ 2	3	5	8	6	3	3
X	P4	→ 4	1	4	5	1	0	0



$$\text{Avg TAT} = (12 + 3 + 6 + 1) / 4 = \frac{22}{4}$$

$$\text{Avg WT} = (7 + 0 + 3 + 0) / 4 = \frac{10}{4}$$

$$\text{Avg RT} = (3) / 4 = \frac{3}{4}$$

$$\text{TAT} = \text{CT} - \text{AT}$$

$$\text{WT} = \text{TAT} - \text{CPU Burst} - \text{I/O Burst}$$

$$\text{RT} = \text{ST} - \text{AT}$$

$$\text{CPU utilization} = \frac{17}{12} \times 100$$

$$\text{Throughput} = \frac{4}{\text{Max(AT)} - \text{Min(AT)}}$$

$$= \frac{4}{12 - 0} = \frac{4}{12}$$