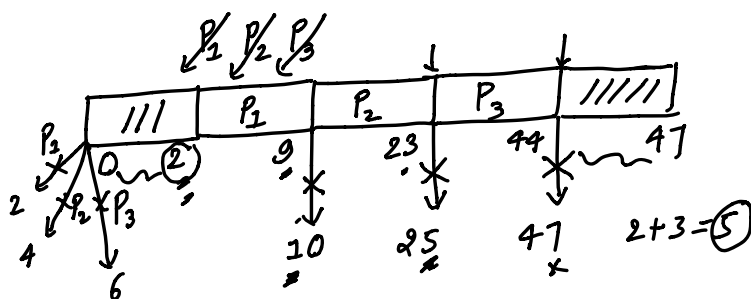


SJF EXAMPLE WITH I/O BURST TIME

		AT	I/O BT	CPU BT	I/O BT	ST	CT	TAT	WT	RT
X	P ₁	0	<u>2</u> ✓	<u>7</u> ✓	<u>1</u> ✓	2	10	10	0	2
X	P ₂	0	4✓	14✓	2✓	9	25	25	5	9
	P ₃	0	6✓	21✓	3✓	23	47	47	17	23



$$TAT = CT - AT$$

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

$$RT = ST - AT$$

$$\left\{ \begin{array}{l} \text{Avg } TAT = (10 + 25 + 47) / 3 \\ \text{Avg } WT = (0 + 5 + 17) / 3 \\ \text{Avg } RT = (2 + 9 + 23) / 3 \end{array} \right\} \quad \left\{ \begin{array}{l} \text{CPU utilization} = \frac{(47 - 5)}{47} \times 100 \\ = \frac{42}{47} \times 100 \\ \text{Throughput} = \frac{3}{\text{Max}(CT) - \text{Min}(AT)} \end{array} \right.$$

$$= \frac{3}{47 - 0} = \frac{3}{47}$$