

waiting time of process i
↑

$$W_{P_i} = \underbrace{\text{Exit time}_{P_i}}_{\text{from gantt chart}} - \underbrace{\text{Arrival time}_{P_i}}_{\text{from question}} - \underbrace{\text{cpu burst}_{P_i}}_{\text{from question}}$$

average waiting time $= \bar{W} = \frac{\sum_{i=1}^n W_{P_i}}{n}$

if not provided by the question it is equal to 0

average turn around time $= \bar{W} + \left(\frac{\sum_{i=1}^n \text{cpu burst}_{P_i}}{n} \right)$

little's formula (Queueing theory)

average length of the queue $\leftarrow n = \lambda \times W \leftarrow$ average arrival rate λ \times average waiting time W

