

SISTEM OPERASI (LATIHAN)



Disusun Oleh:

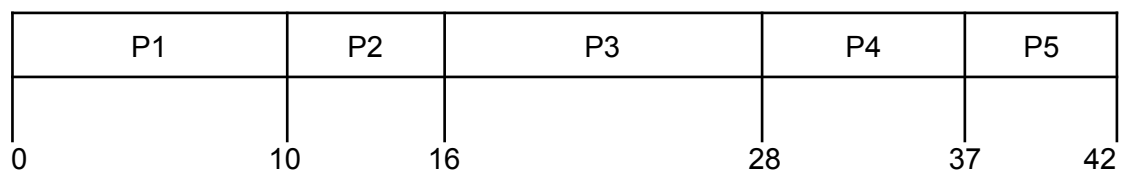
Prames Ray Lopian - 140810210059

**PROGRAM STUDI S-1 TEKNIK INFORMATIKA
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
UNIVERSITAS PADJADJARAN
JATINANGOR**

2022

Process	Arrival Time	Burst Time
P1	0.0	10
P2	3.0	6
P3	5.0	12
P4	7.0	9
P5	8.0	5

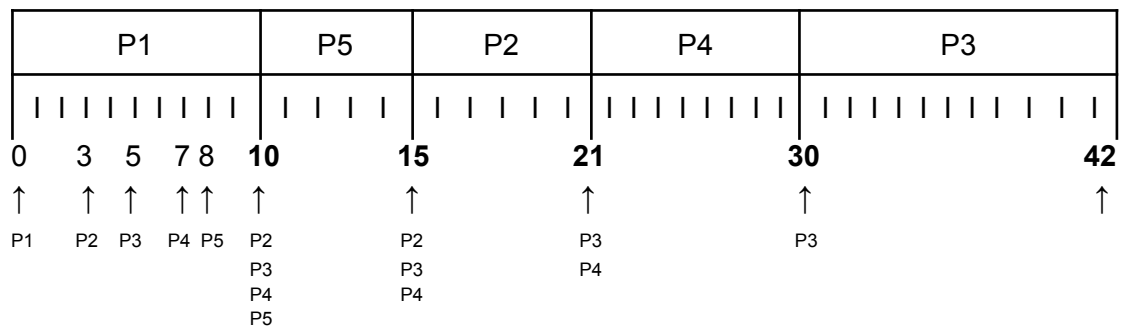
A. FCFS



WT = P1: 0
P2: 10
P3: 16
P4: 28
P5: 37

AWT = $(0 + 10 + 16 + 28 + 37) / 5$
= 18,2ms

B. SJF (Non Preemptive)



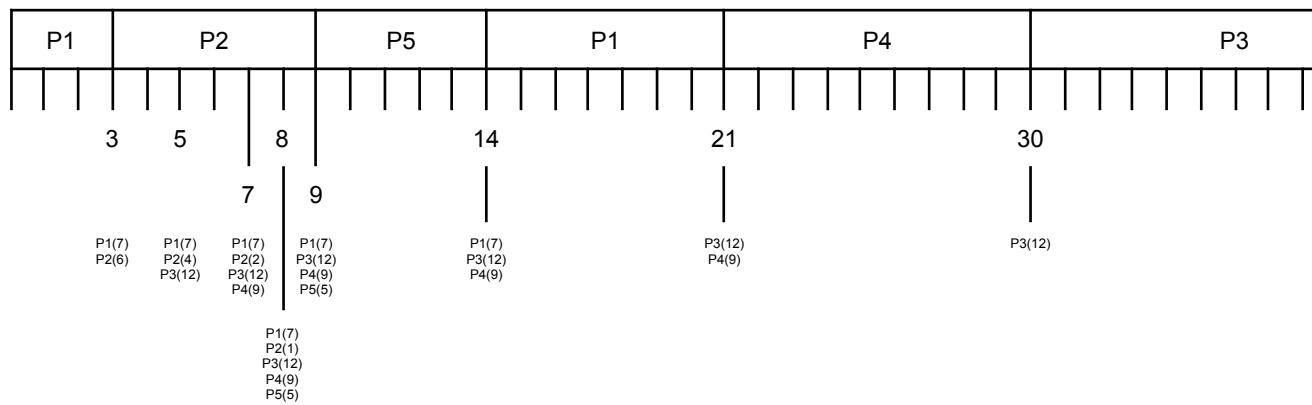
WT = P1 = 0
P2 = 15 - 3 = 12
P3 = 30 - 5 = 25

$$P4 = 21 - 7 = 14$$

$$P5 = 10 - 8 = 2$$

$$\begin{aligned} \text{AWT} &= (0 + 12 + 25 + 14 + 2)/5 \\ &= 10,6 \text{ ms} \end{aligned}$$

C. SJFP (Preemptive)



$$\text{WT} = P1 = 0 + (14 - 3) = 11$$

$$P2 = 0$$

$$P3 = 30 - 5 = 25$$

$$P4 = 21 - 7 = 14$$

$$P5 = 9 - 8 = 1$$

$$\begin{aligned} \text{AWT} &= (11 + 0 + 25 + 14 + 1)/5 \\ &= 10,2 \text{ ms} \end{aligned}$$