

CPU Scheduling

Preemptive SJF

P →	P ₀	P ₁	P ₂					
AT →	0	1	2	<table><tr><td>P₀</td><td>P₁</td><td>P₀</td><td>P₂</td></tr></table>	P ₀	P ₁	P ₀	P ₂
P ₀	P ₁	P ₀	P ₂					
BT →	<u>1</u>	<u>4</u>	<u>9</u>	0 1 5 13 22				
	<u>8</u>							

$$WT_{P_0} = 13 - 0 - 9 = 4 \quad \therefore WT = CT - AT - DT$$

$$WT_{P_1} = 5 - 1 - 5 = 0$$

$$WT_{P_2} = 22 - 2 - 9 = 11$$

$$\text{Total} = 15$$

$$\text{avg } WT = \frac{15}{3} = 5 \text{ Ans}$$

Ex

P →	P ₁	P ₂	P ₃	P ₄
AT →	0	1	2	3
BT →	<u>6</u>	<u>4</u>	<u>2</u>	<u>3</u>
	5	3	+	

P ₁	P ₂	P ₃	P ₃	P ₂	P ₄	P ₁	
0	1	2	3	4	7	10	15

WT

$$P_1 \Rightarrow 15 - 0 - 6 = 9$$

$$P_2 = 7 - 1 - 4 = 2$$

$$P_3 = 4 - 2 - 2 = 0$$

$$P_4 = 10 - 3 - 3 = 4$$

$$\Rightarrow \text{avg } WT = \frac{15}{4} = 3.75$$