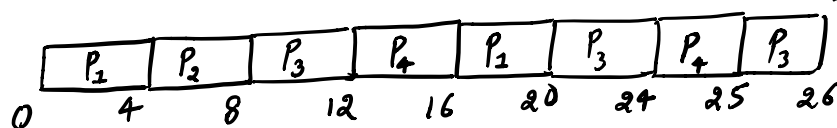# ROUND ROBIN SCHEDULING IN OPERATING SYSTEM

- **Similar to FCFS scheduling with two notable differences**
    - **Preemptive scheduling**
    - **Time quantum or time slice**

- **Better suited for time- sharing operating systems**

	AT	BT	ST	CT	TAT	WT	RT
P₁	0	8	0	20	20	12	0
P₂	4	4	8	20	7	3	3
P₃	18	8	4	26	24	15	6
P₄	25	12	8	26	24	17	9
P₄	3	4	12	25	22	17	0

Ready : P₁ P₂ P₃ P₄ P₁ P₃ P₄ P₃

→ Time Quantum = 04

P₁	P₂	P₃	P₄	P₁	P₃	P₄	P₃

0   4   8   12   16   20   24   25   26

$TAT = CT - AT$

$WT = TAT - CPU\ BT - IO\ BT$

$RT = ST - AT$

Avg TAT = $(20+7+24+22)/4$

Avg WT = $(12+3+15+17)/4$

Avg RT = $(3+6+9)/4$

CPU utilization = $\dfrac{26}{26} \times 100$

Throughput = $\dfrac{4}{26-0} = \dfrac{2}{13}$

$Max(CT) - Min(AT)$