COMPUTER SCIENCE & I.T

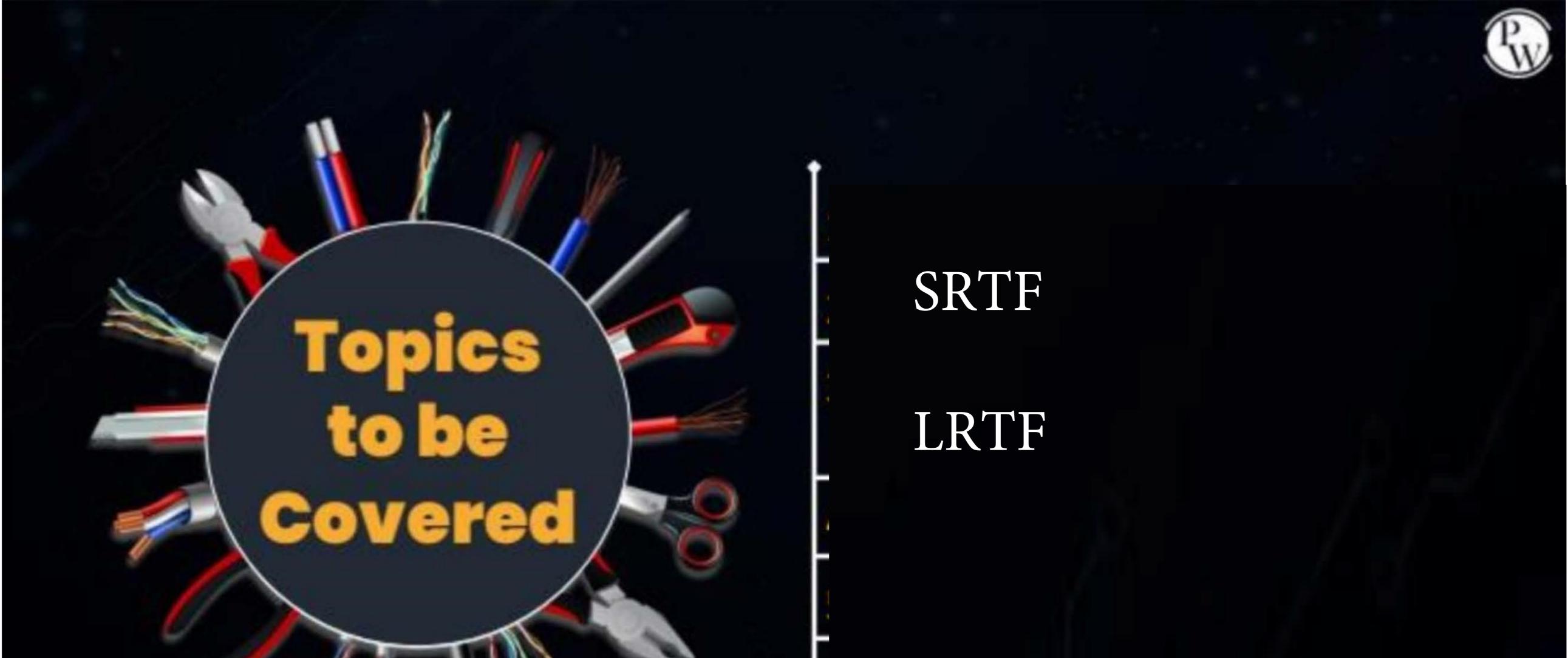


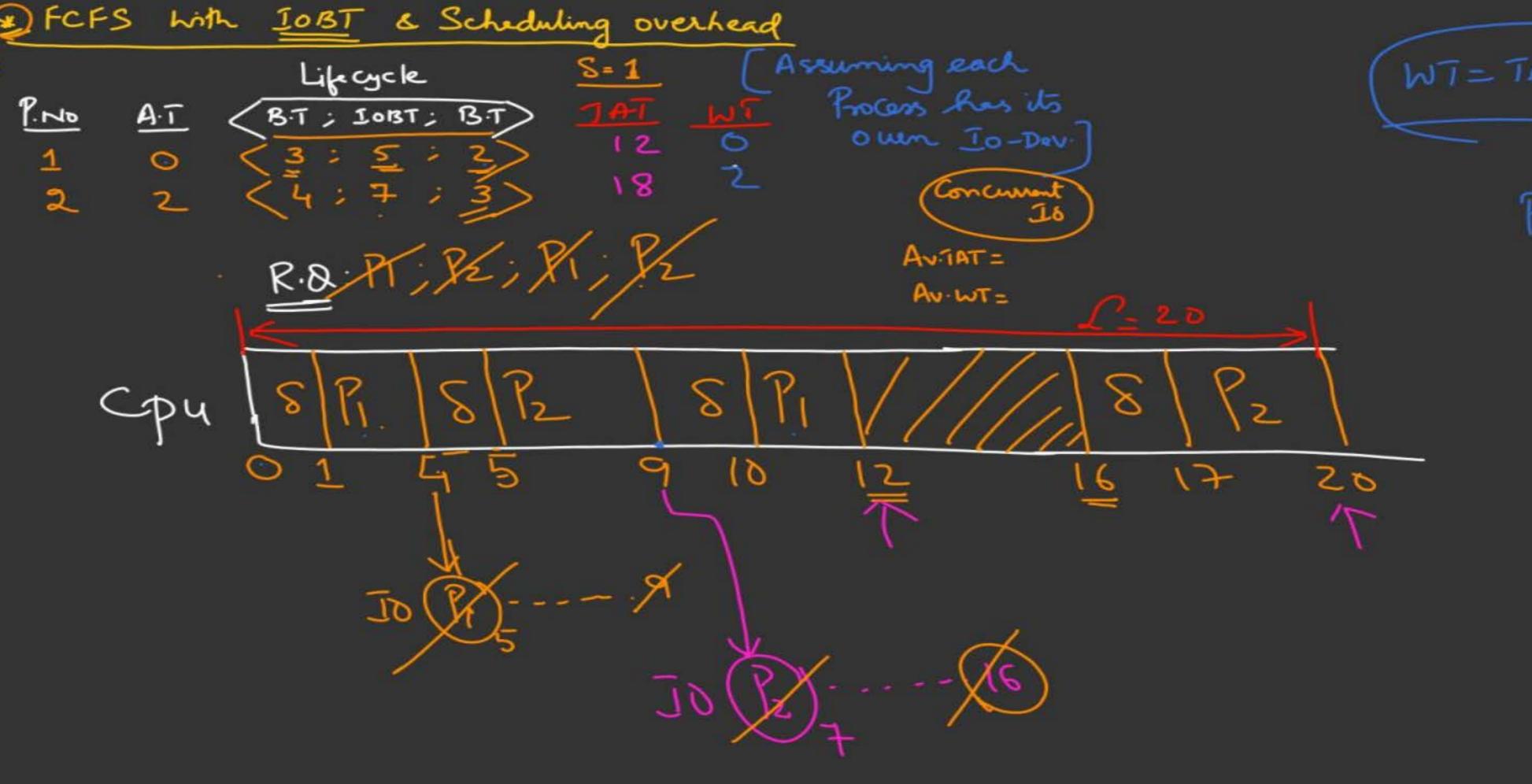
OPERATING SYSTEMS

CPU Scheduling

LECTURE 02



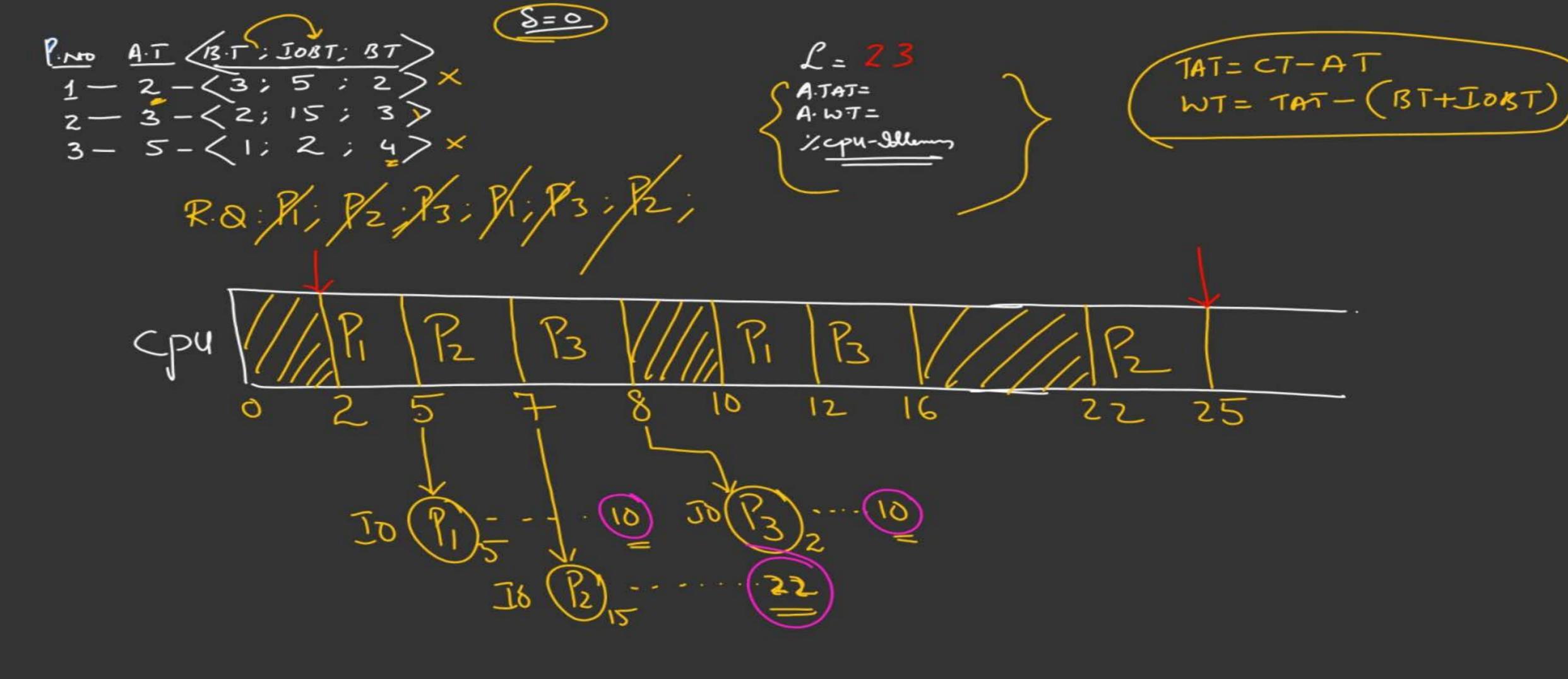




$$P_1 = 12 - (10 + 2)$$

$$= 9$$

$$P_2 = 18 - (14+2)$$
 $= -2$



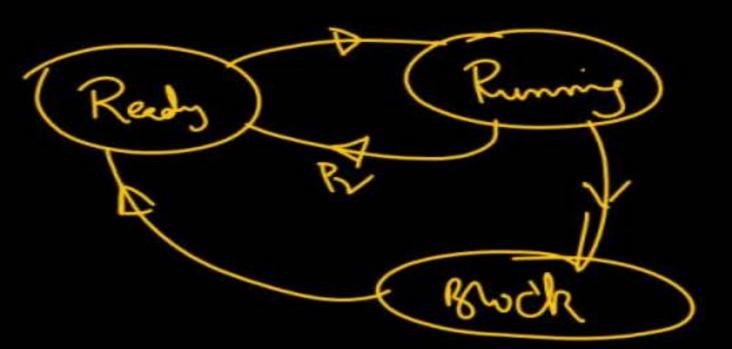


Consider the following statements about process state transitions



for a system using preemptive scheduling I. A running process can move to ready state ~ II. A ready process can move to running state III. A blocked process can move to running state x IV. A blocked process can move to ready state. Which of the above statements are TRUE?

- I, II and IV only
- I, II, III and IV
- I, II and III only
- II and III only



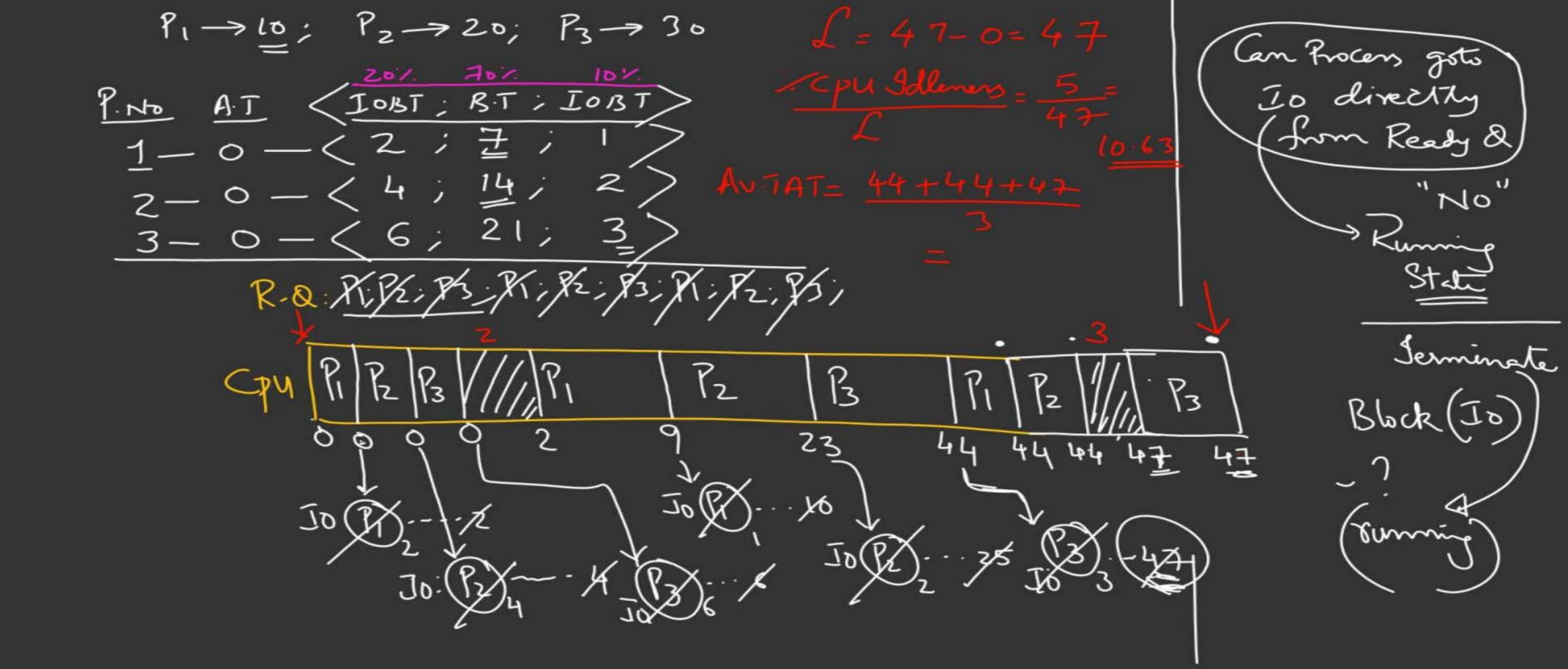
Consider three Processes P_1 , P_2 , P_3 arriving in the Ready Queue at time 0 in the order P_1 , P_2 , P_3 . Their service time requirements are 10,20&30 units respectively. Each Process spends 20% of its Service time on I/O followed by 70% of its Service time on Computation at CPU and last 10% on IO before completion.

Assuming Concurrent I/O and negligible Scheduling Overhead. Calculate for FCFS Scheduling

(i) Average TAT of Processes

(ii) % CPU idleness

Sohne The Question assuming S=1



System has only one To-service for all Processes; 8=1 2-2 (4; 7; 2) R.Q.R.R.R.R.





