CS & IT



ENGINERING

OPERATING SYSTEMS

CPU Scheduling



Lecture No. 2



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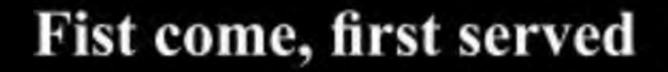


TOPICS TO BE COVERED CPU Scheduling Techniques

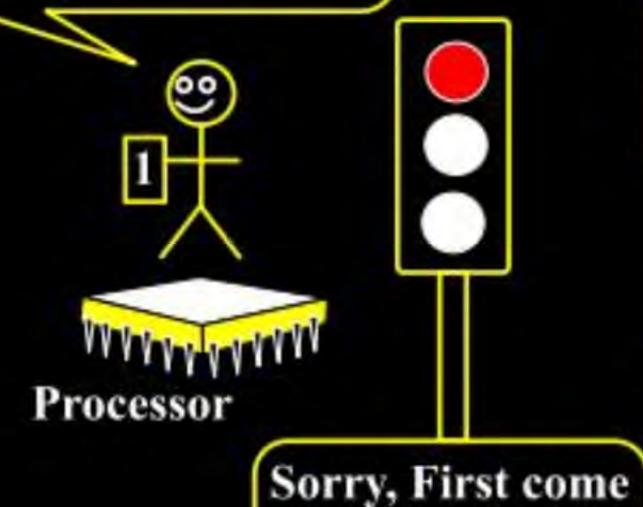
FCFS

SJF

weeew I could stay here forever Anyway, I'm not going back to the end of the queue



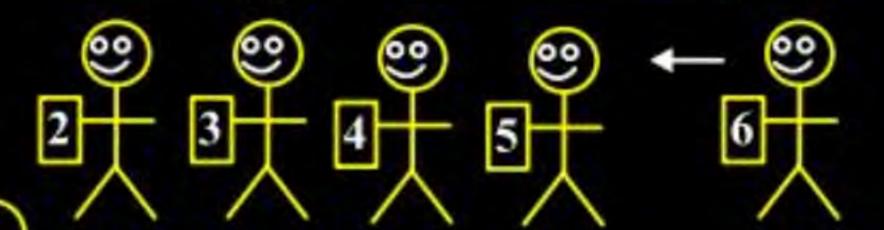




first served.

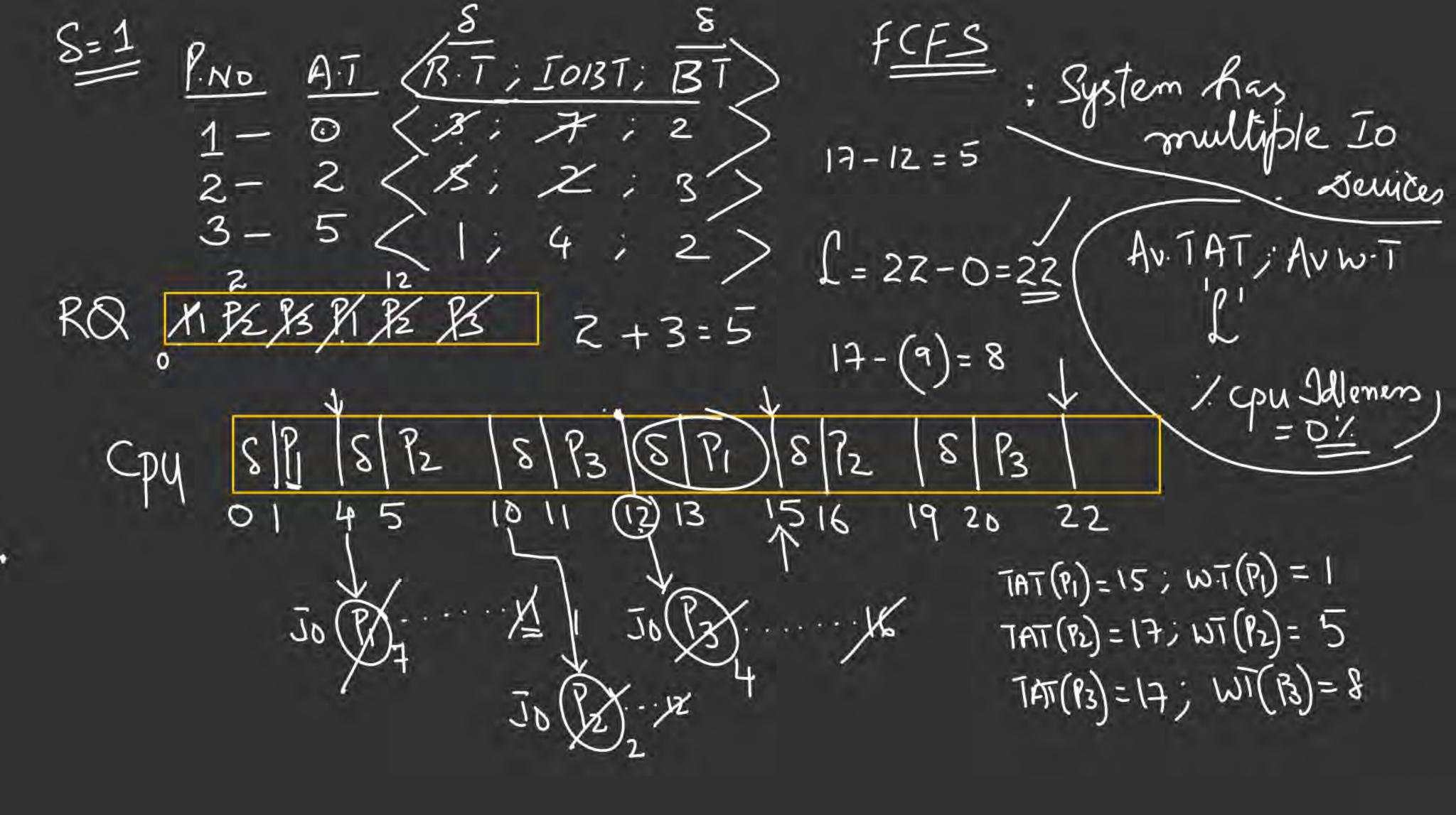
Hurry up. I'm waiting You've possessor for ages

Look at the size of that queue!



Process queue

CPU Scheduling Jechniques/Algorithms 1) FCFS: Scheduling with IO-BT's and cpu Scholing ovhol Likewile BT; IOBT; BT) (发)为;2



Spent by

Robers

m R.Q

m W.I

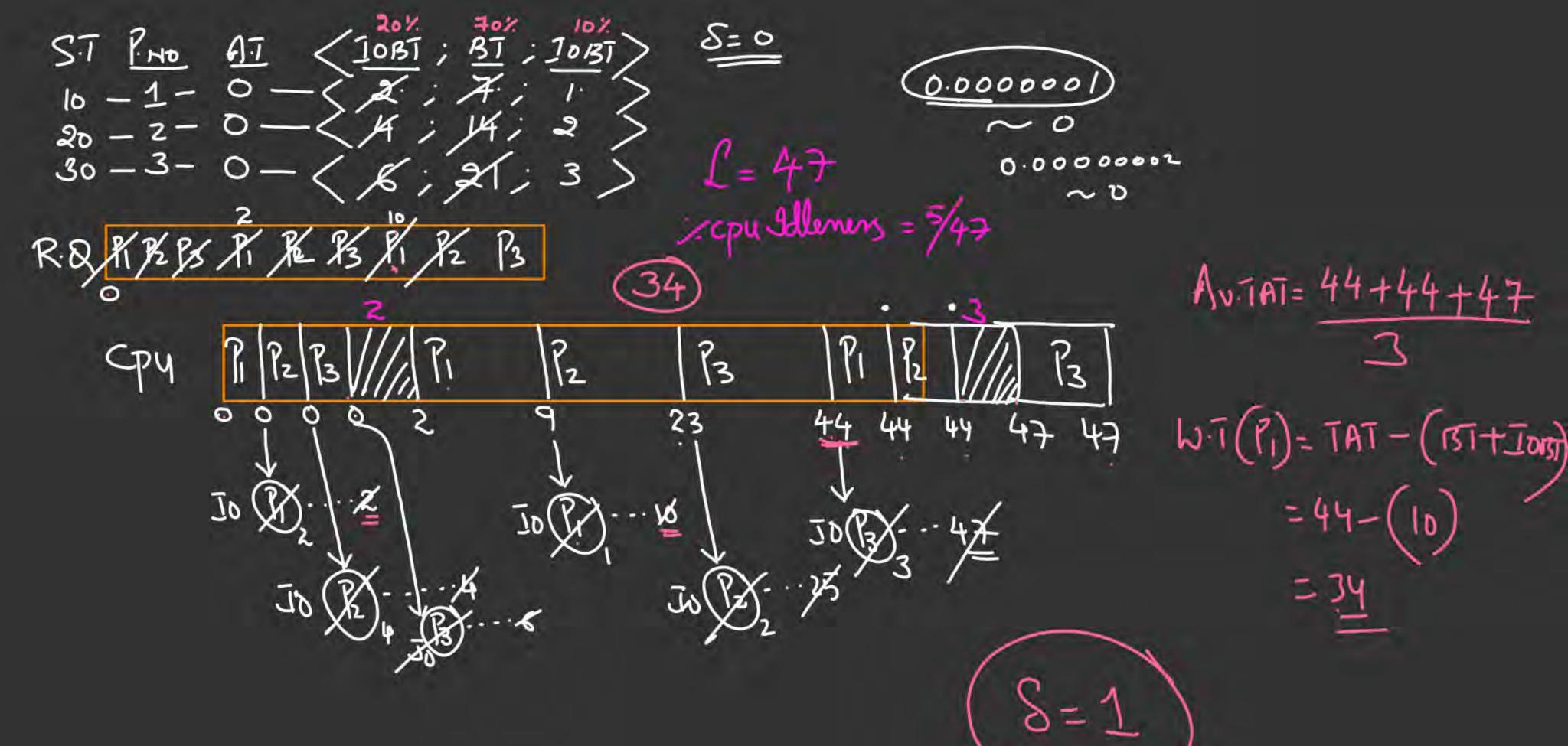
Q. Consider three Processes P_1 , P_2 , P_3 arriving in the Ready Queue at time 0 in the order P_1 , P_2 , P_3 . Their service time requirements are 10,20&30 units respectively. Each

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 IOO before completion.

BITIOBI

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

- (i) Average TAT of Processes
- (ii) % CPU idleness



S=1: PNO AT (IOBT; BT; IOBT / Cpu Idleners = /52 = 2/ -2-052-0=52 21; 30 - 3 - 0 / cpu-ould activity 13 P3 48 49 49 50 50 51 52 52 12 26 27

3) Repeat Q2 &3) Assuming System has only one To-Deline

P) JOD



