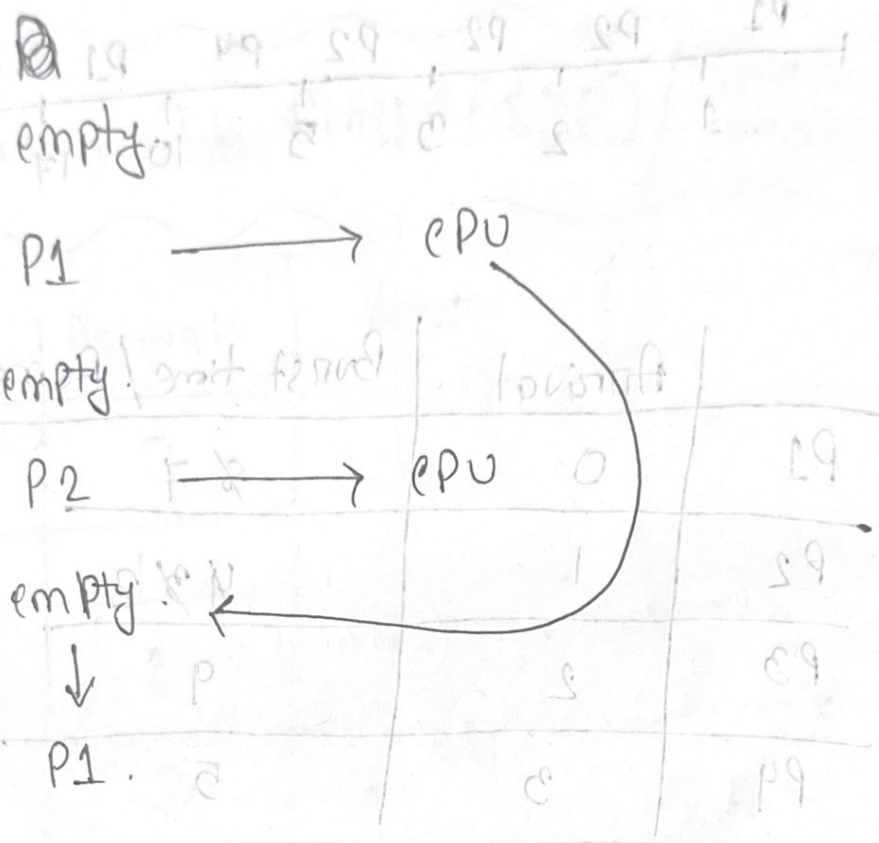
Ready queue



Priority Scheduling

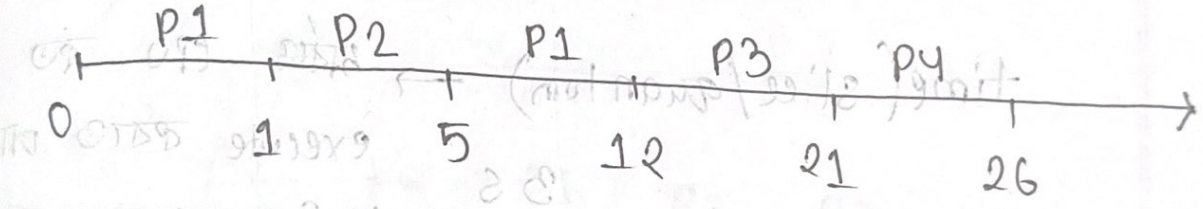
Process এর সাথে priority number (যেমন),

number কম priority বেশি,

number বেশি priority কম।

Here, we choose with priority.

	Arrival	Burst	Priority
P1	0	8	3
P2	1	4	1
P3	2	9	4
P4	3	5	5



	turn	wait	resp
P1			
P2			
P3			
P4			

Starvation → priority কম থাকায় তার process last এ execute হয়।

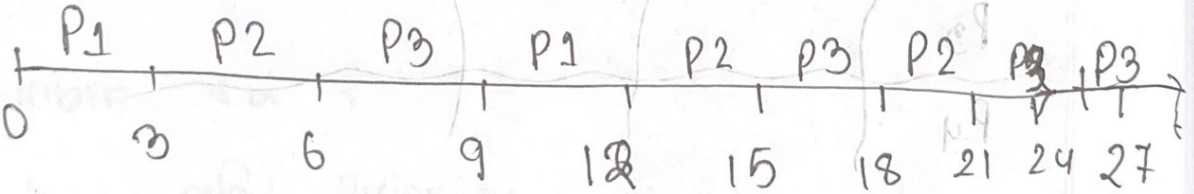
aging → কম priority কে normal priority দেয়।

Round - Robin (RR)

	arrival	Burst
P1	0	6 3 3 0
P2	0	9 6 3 0
P3	0	12 9 6 3 0

time (slice/quantum) → সর্বোচ্চ CPU কত time execute করতে পারে before giving the CPU time to other process.

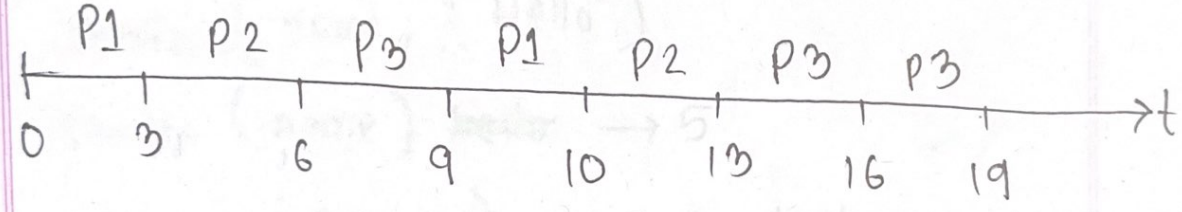
3 s



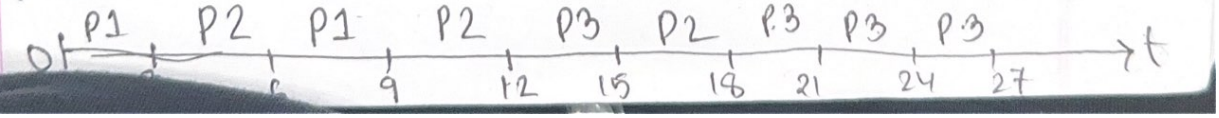
Quiz → 20/07/25
↳ syllabus until 15/07/25

	arrival	Burst	Remaining
P1	0	4	~~X~~ 0
P2	0	6	~~3~~ 0
P3	0	9	~~6~~ ~~3~~ 0

time (slice / quantum) = 3s



	arrival	Burst	Rem
P1	0	6	~~3~~ 0
P2	0	9	~~6~~ ~~3~~ 0
P3	6	12	~~9~~ ~~6~~ ~~3~~ 0



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(2)

	Arrival time	Burst	Remaining
P_1	0	4	~~1~~ 0
P_2	0	6	3
P_3	4	3	~~3~~ 0

q = 3

P_1	P_2	P_1	P_3	P_2
0 – 3	3 – 6	6 – 7	7 – 10	10 – 13

website for practice : process-scheduling-solver.boonsuen.com

Multilevel Feedback Queue

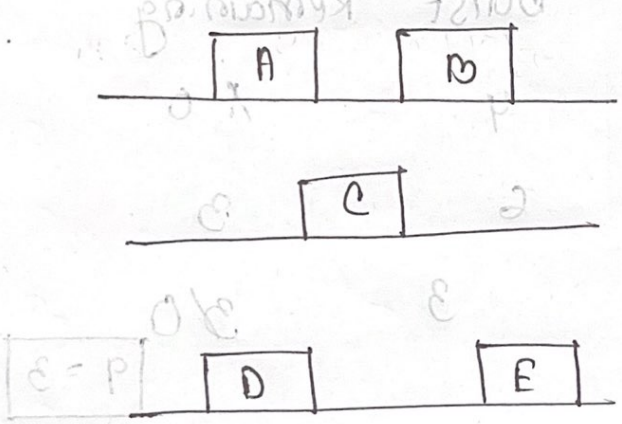
যেসব processes আমার থেকে বেশি input নেয় interective process (terminal).

→ যে process আমার input এর উপর বেশি dependent তাকে বেশি priority দিব।

→ Python non interactive process.

→ MFQ e priority set করা যায়।

example :



Process

a = 2 — A, C

a = 4 — B

a = 8 — C

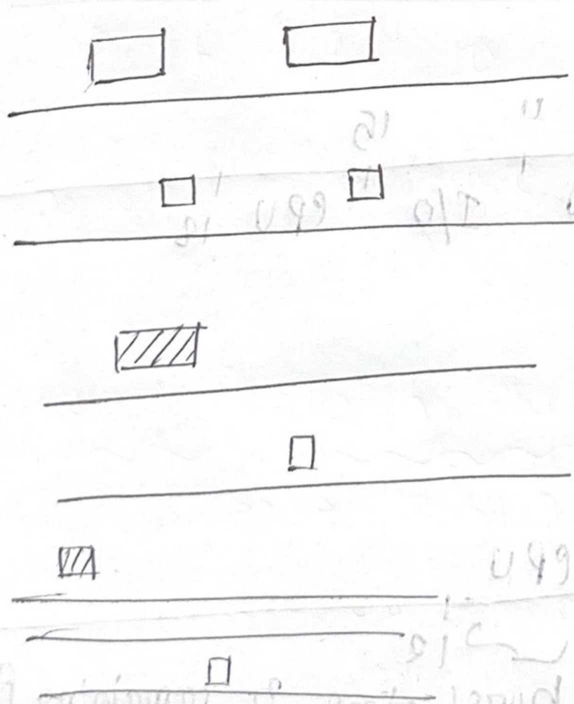
i) Choose the process at the highest priority level.

ii) If multiple processes are at the highest level choose by speifield algo (RR by default).

multiple lines এর algo change হতে পারে also lines গুলোর 'q' different হতে পারে।

iii) If a process uses up its time quantum then relegate the process by 1 level until the lowest level.

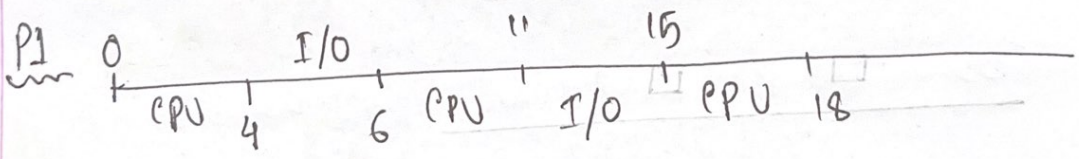
iv) If a process requests I/O, promote the process by 1 level.

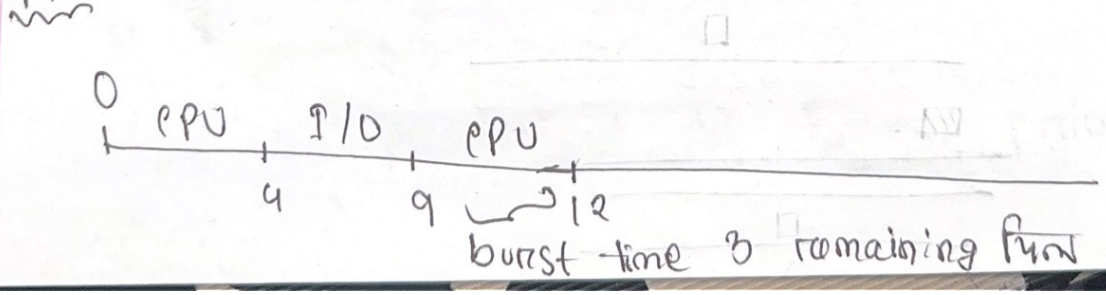


Processes	Burst time
P_1	12
P_2	8
P_3	18

Video

Process	Burst time	Arrival time
P_1	12	
P_2	8	
P_3	18	
P_4	7	





Video

Arrival time

0

1

4

20