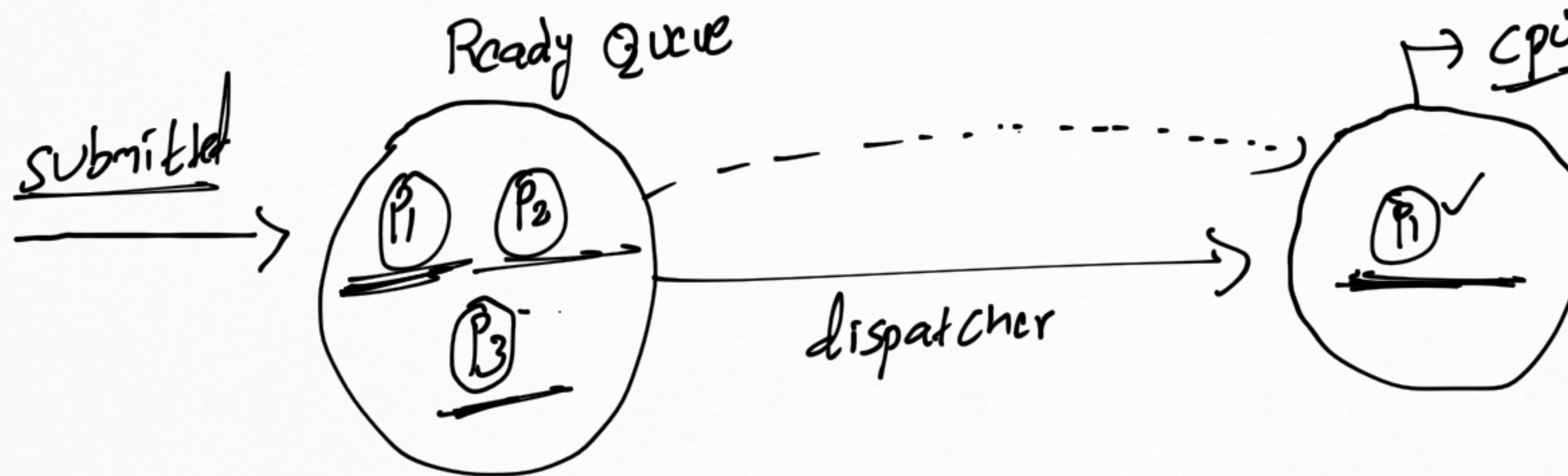
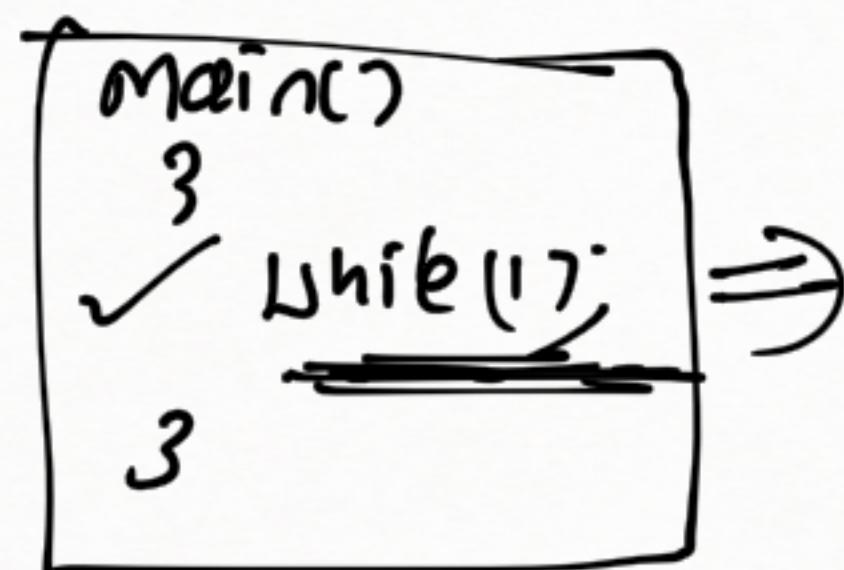


Date: 14 - 10 - 21 :

SJF

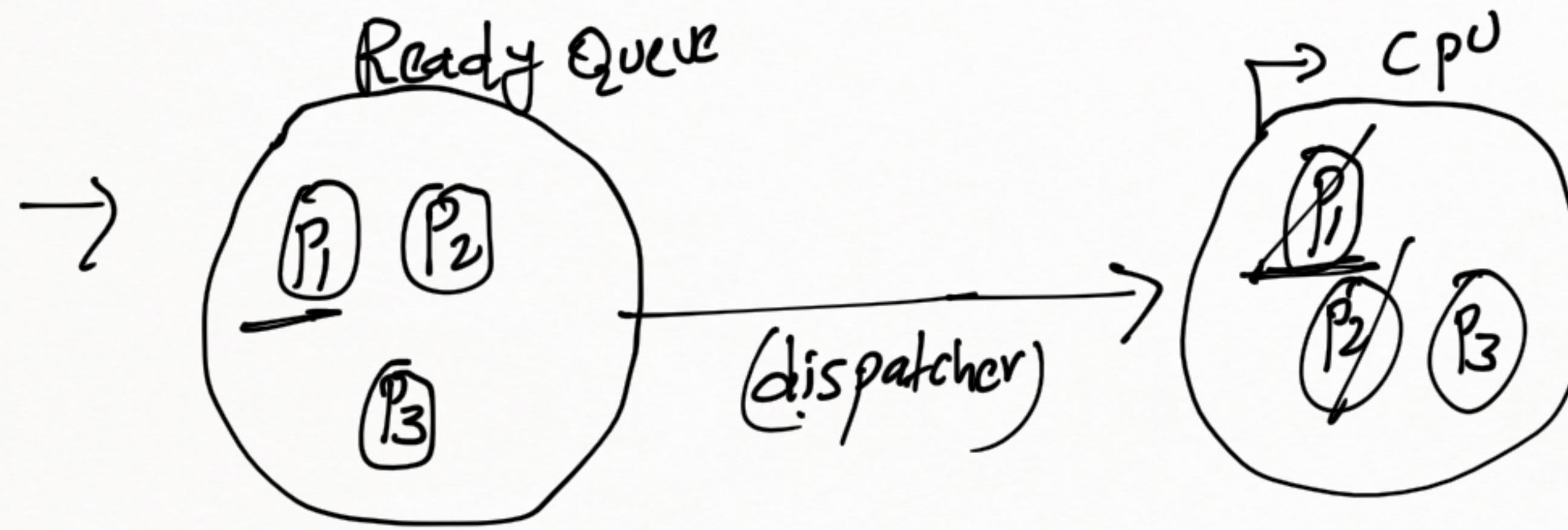


⇒ Job which is taking less amount of time to complete



Priority

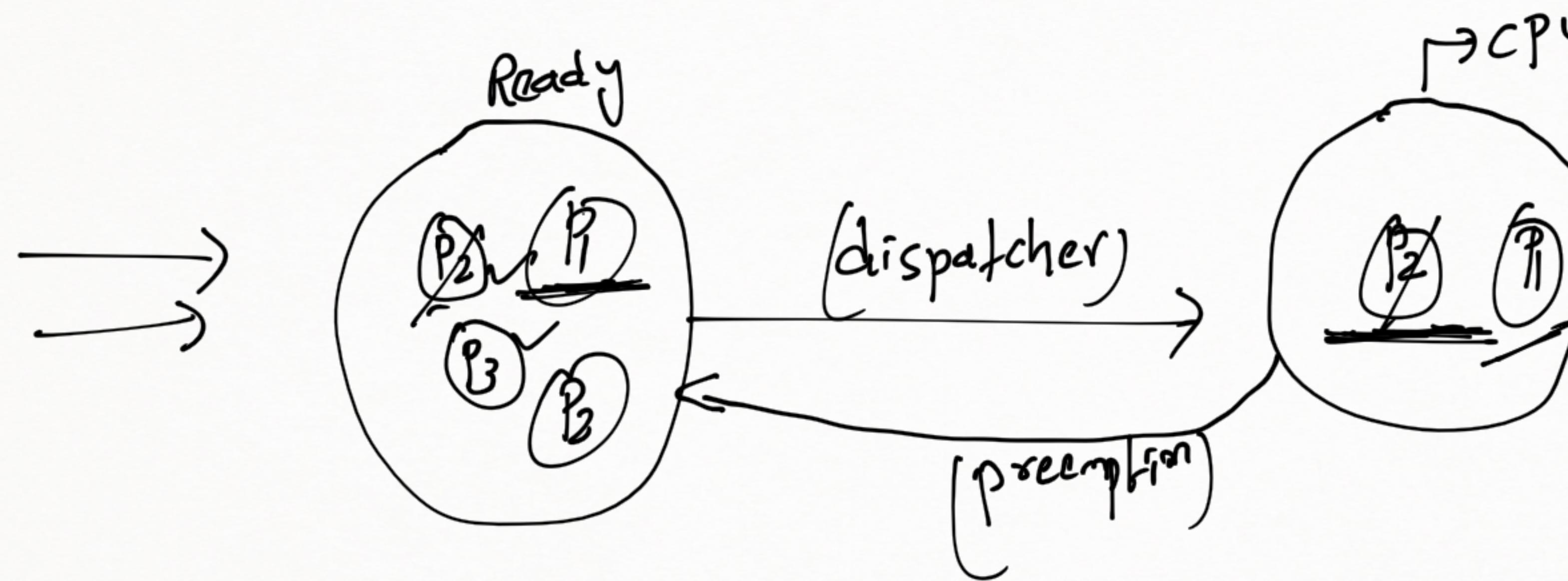
→ lower number having higher priority



⇒ The highest priority process is render execution then
lowest priority process must wait.

$$\begin{aligned} &\rightarrow R \cdot T \\ &\rightarrow W \cdot T \\ &\rightarrow T \cdot A \end{aligned} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Increase}$$

- P₁ - 1 ✓
- P₂ - 2
- P₃ - 3



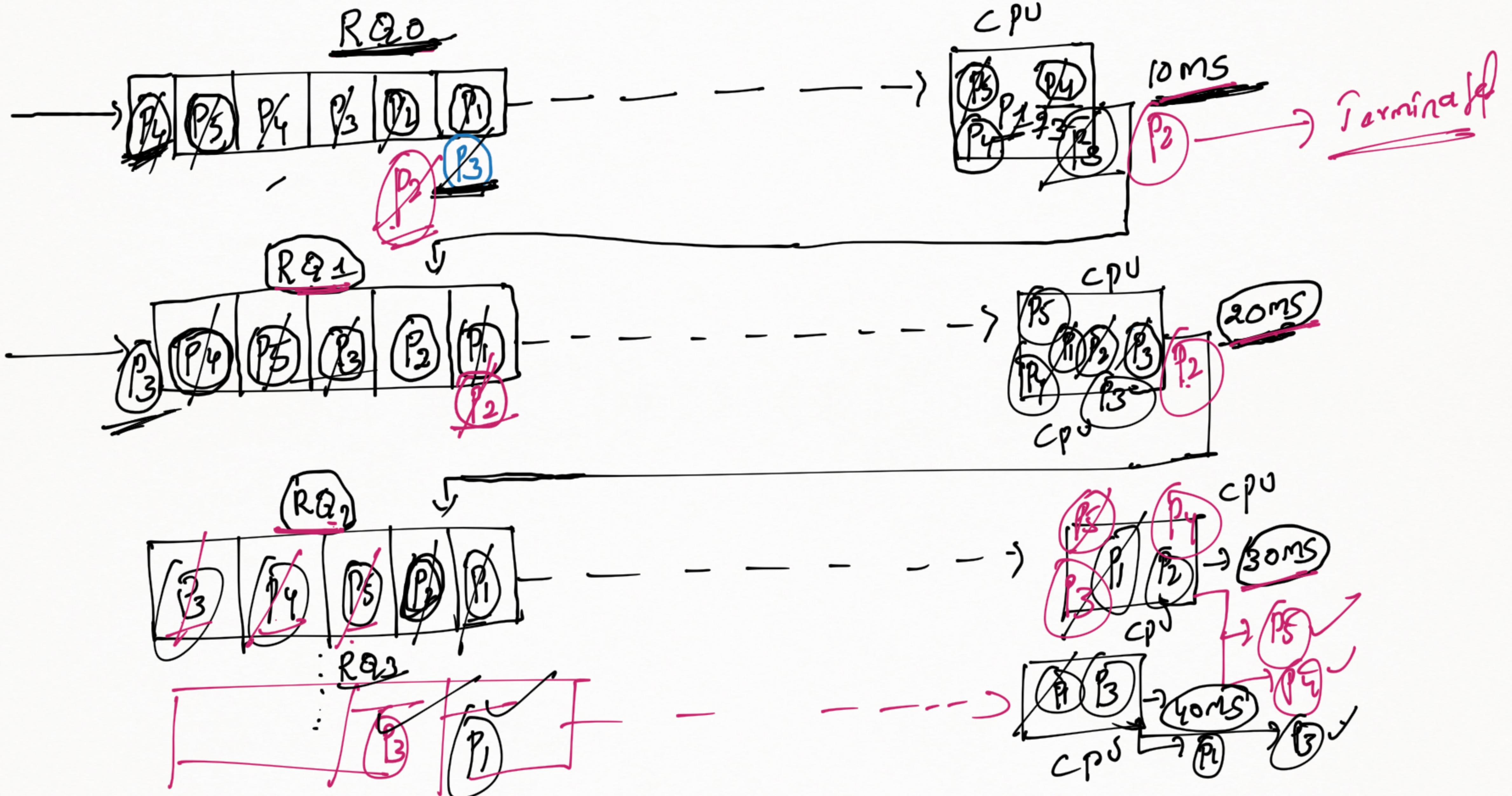
$P_1 - \underline{1}$
 $P_2 - \underline{2}$
 $P_3 - \underline{3}$

\Rightarrow If a lower priority process is under execution, at that time if higher priority process comes ready then preemption happens

MULti level feed back Queue

→ it is a combination of Round Robin plus priority scheduling policy

- multiple Queues with different priorities.
- Round robin applicable for each Queue Jobs
- If a process having CPU wffar in the time slice than that process priority increasing otherwise process priority decreasing.



⇒ In OS by default 80 is the priority number assigned for each process once started

⇒ Total of 199 (100 priority levels)

⇒ ./a.out &

	PRI	NI
	<u>80</u>	<u>0</u>
	<u>85</u>	<u>5</u>

NI = nice value
changing nice value
possible using
nice & renice
commands

\Rightarrow

nice (Run a program)

with modified scheduling priority)

Ex:

\$ nice -5 ./a.out &
 (+)ve

\$ nice - -5 ./a.out &
 (-ve)

\Rightarrow nice ness range is $-20 \text{ to } +19$

\Rightarrow $-20 \text{ to } +19$ \Rightarrow 40 nice ness values

PRI NI \$ nice -19 ./a.out
 85 5 (+)ve

PRI NI
 75 -5 (-ve)

PRI NI
 80 0 (0)
 (-20)

PRI NI
 99 19 (+ve)

(+20)

(19)

(-20)

\Rightarrow Renice (alter priority of running process)

\$ lsoat \rightarrow pid

\$ renice 5 ✓ pid
(+ve)

\$ renice -5 pid
(-ve)

Renice nice ness value (~~as per t₁₀~~)

PRI NI
80 0

PRI NI
85 5

PRI NI
75 -5

-20 To +19