

~~CSF~~:

Course: CSF 905

Class Evaluation

Submitted by:

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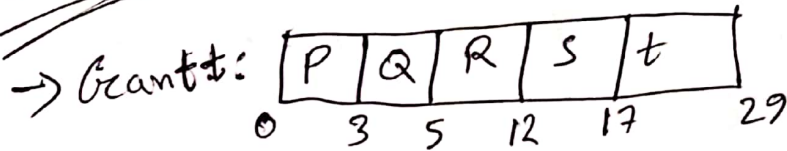
Sec A

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11.02.2021.

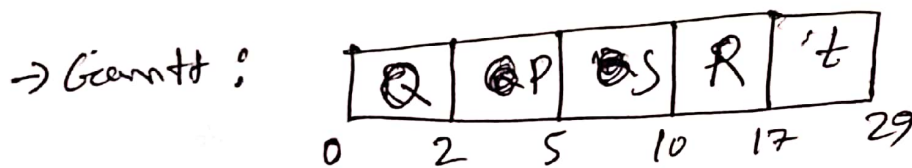
17201012 (Rashik Rahman)

#FCFS



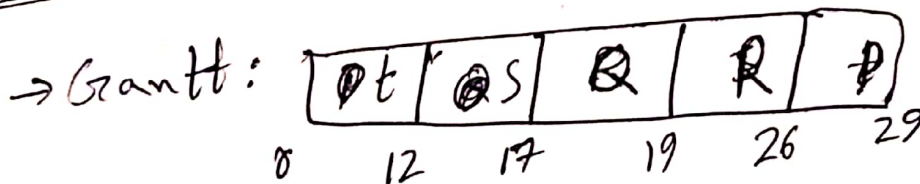
→ Average wait time =  $\frac{0+3+5+12+17}{5} = 7.40 \text{ ms}$

#Shortest Job first



→ Average wait time:  $\frac{0+2+5+10+17}{5} = 6.80 \text{ ms}$

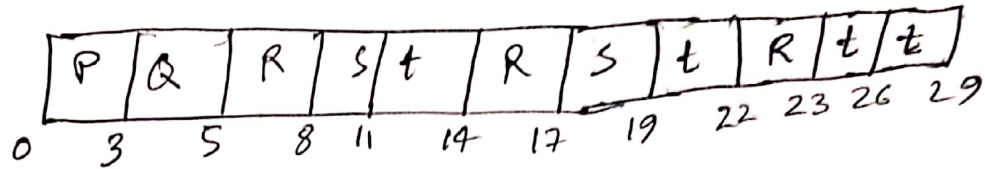
#Priority scheduling:



→ Average wait time:  $\frac{0+12+17+19+26}{5} = 13.25 \text{ ms}$

## # Round Robin

→ Gantt:



→ Average wait times

Method:

- i) ~~Reverse the gantt chart process~~
- ii) Count occurrence of ~~element~~ and subtract 1 from it.
- iii) if (occurrence - 1) = 0 then add the wait time ~~to a list~~ of that ~~index~~ individual process to the list
- iv) if (occurrence - 1) > 0 then ~~take~~ the wait time / starting time of the last occurrence of that process the multiply it ~~with~~ (occurrence - 1) ~~then~~ with ~~keep it in a list~~ quantum, then subtract it from (occurrence - 1)
- v)  $\text{sum}(\text{list}) / \text{len}(\text{list})$  is the average wait. time.

∴ List = [ 0, 3, 22 × 2, 17 × 1, 26 × 3 ]

↓        ↓        ↓        ↓        ↓  
for P   for Q   for R   for S   for t.

Average wait time =  $\frac{\text{sum}(\text{list})}{\text{len}(\text{list})} = \frac{50}{5} = 10 \text{ ms.}$

$$\text{list} = [ \underset{\substack{\downarrow \\ \text{for P}}}{0}, \underset{\substack{\downarrow \\ \text{for Q}}}{3}, \underset{\substack{\downarrow \\ \text{for R}}}{22 - \cancel{20} \times 2 \times 3}, \underset{\substack{\downarrow \\ \text{for S}}}{17 - 1 \times 3}, \underset{\substack{\downarrow \\ \text{for T}}}{26 - 3 \times 3} ]$$

$$= [0, 3, 16, 14, 17]$$

$$\therefore \text{Average wait time} = \text{sum}(\text{list}) / \text{len}(\text{list})$$

$$= 50 / 5$$

$$= 10 \text{ ms.}$$