

F CFS

Leaving effect

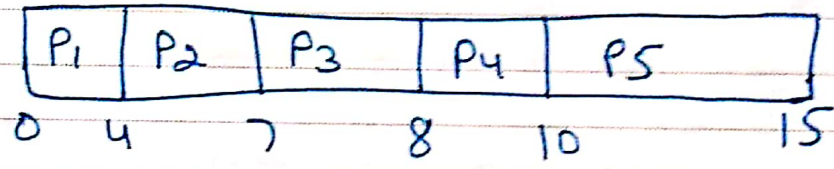
18 Thursday - AT TAT-BT

December '14

①

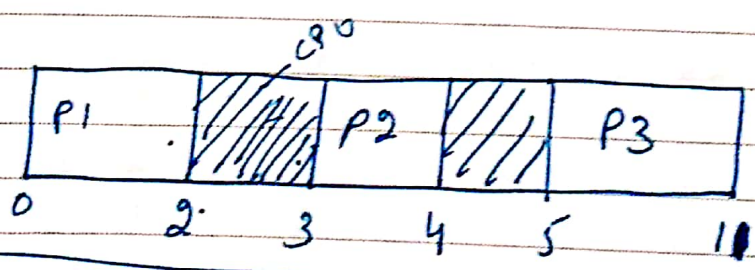
Process	AT	BT	CT	TAT	WT
P ₁	0	4	4	4	0
P ₂	1	3	7	6	3
P ₃	2	1	8	6	5
P ₄	3	2	10	7	5
P ₅	4	5	15	11	6
				$\frac{34}{5} = 6.8$	$\frac{19}{5} = 3.8$

TAT = WT + BT



②

Process	AT	BT	CT	TAT	WT
P ₁	0	2	2	2	0
P ₂	3	1	4	1	0
P ₃	5	6	11	6	0



③

Process	AT	BT
P ₁	2	3
P ₂	4	6
P ₃	6	4
P ₄	8	5
P ₅	0	2

"You have not lived until you have done something for someone who can never repay you." - Anonymous

$$TAT = CT - AT$$

$$BT = TAT - BT$$

December '14

Wednesday 17

Week: 51

Brooks AT BT

P1

0

20

P2

1

7

P3

2

5

Avg. WT = 14.67m

P1	P2	P3
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0 20 27 32

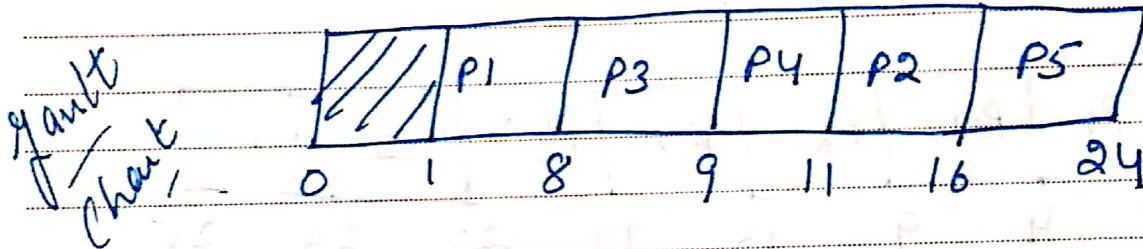
① SJF: Non-preemptive

Process No. AT BT CT TAT WT

P1	1	7	8	7	0
P2	2	5	16	14	9
P3	3	1	9	6	5
P4	4	2	11	7	5
P5	5	8	24	19	11

$$\frac{106}{10} = 10.6$$

$$\frac{30}{5} = 6$$



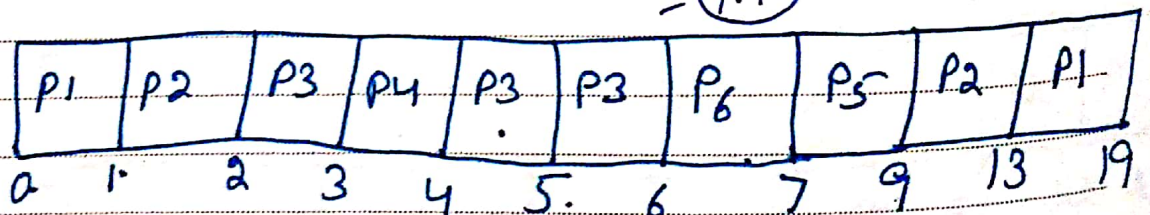
CT-M
WT-TAT-AT

② SJF Preemptive :-

P.No.	AT	BT	CT	TAT	WT
1	0	7	19	19	12
2	1	5	13	12	7
3	2	3	6	4	1
4	3	1	4	1	0
5	4	2	9	5	3
6	5	1	7	2	1

$$\frac{43}{6} = 7.1$$

$$\frac{24}{6} = 4$$



"The best and most beautiful things in this world cannot be seen or even heard, but must be felt with the heart." - Helen Keller

$$\text{Avg TAT} = 7.18$$

$$\text{Avg WT} = 4$$

December '14

Priority Scheduling

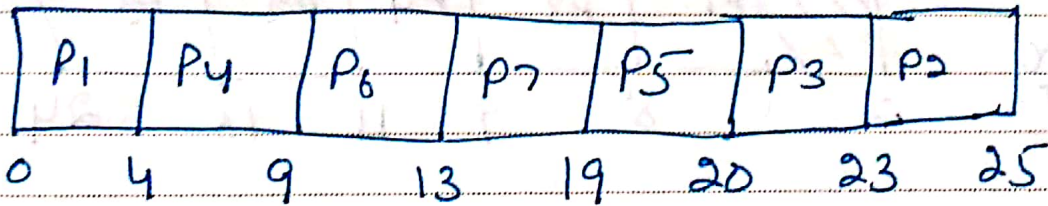
Week: 51

Monday

15

Non Preemptive Priority Scheduling

P.No	Priority	AT	BT	CT	TAT	WT
1	2 (L)	0	4	4	4	0
2	4	1	2	25	24	22
3	6	2	3	23	21	18
4	10	3	5	9	6	1
5	8	4	1	20	16	15
6	12 (H)	5	4	13	8	4
7	9	6	6	19	13	7



$$\text{Avg TAT} = 13.1 \text{ ms}$$

$$\text{Avg WT} = 9.5 \text{ ms}$$

JANUARY 2015													
M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31											

13 Saturday

December '14

Week: 50

	AT	BT	CT	TAT	WT
P1	0	6	9	9	3
P2	0	8	24	24	16
P3	0	7	16	16	9
P4	0	3	3	3	0

P4	P1	P3	P2
0	3	9	16

WT → (P1) WT = TAT - But the

$$TAT = CT - AT$$

14 Sunday

Week: 50

Preemptive Priority Scheduling

P.No	Priority	AT	BT	CT	TAT	WT
P1	2	0	4	25	25	21
P2	4	1	2	23	21	19
P3	6	2	3	21	19	16
P4	10	3	5	12	9	4
P5	8	4	1	19	15	14
P6	12	5	4	9	4	0
P7	9	6	6	18	12	6

P1	P2	P3	P4	P6	P4	P7	P5	P3	P2	P1
0	1	2	3	5	9	12	18	19	21	22

"May you live all the days of your life." - Jonathan Swift

$$Avg\ TAT = 15ms$$

$$Avg\ WT = 11.4ms$$

Round Robin Scheduling!

Friday 12

Jamhuri (Independence Day) (Kenya)

$TQ = 2$
Preemptive.

P.No	AT	BT	CT	TAT	WT
P1	0	4	8	8	4
P2	1	5	18	17	12
P3	2	2	6	4	2
P4	3	1	9	6	5
P5	4	6	21	17	11
P6	5	3	19	13	10

Avg. TAT = 11

Avg. WT = 7.5

Queue = P1 P2 P3 P1 P4 P5 P2 P6 P5 P2 P6 P5

P ₁	P ₂	P ₃	P ₁	P ₄	P ₅	P ₂	P ₆	P ₅	P ₂	P ₆	P ₅	
0	2	4	6	8	9	11	13	15	17	18	19	21

~~TAT~~

②

P.No	AT	BT	CT	TAT	WT	$TQ = 3$
P1	5	5	32	27	22	
P2	4	6	27	23	17	
P3	3	7	33	30	23	
P4	1	9	30	29	20	
P5	2	2	6	4	2	
P6	6	3	21	15	12	

Avg. TAT = 21.3

Avg. WT = 16

Queue = P4 P5 P3 P2 P4 P1 P6 P3 P2 P4 P1 P3

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JANUARY 2015													
M	T	W	T	F	S	S	M	T	W	T	F	S	S
			1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31								

③ Round Robin:- TQ=2

<u>Process</u>	<u>AT</u>	<u>BT</u>	<u>CT</u>	<u>TAT</u>	<u>WT</u>
X P ₀	0	8 13	13	13	8
X P ₁	1	8 12	11	11	8
X P ₂	2	1	5	3	2
X P ₃	3	2	9	6	4
P ₄	4	8 14	10	10	7

~~P₀~~ ~~P₁~~ ~~P₂~~ ~~P₀~~ ~~P₃~~ ~~P₄~~ ~~P₁~~ ~~P₀~~ ~~P₄~~

P ₀	P ₁	P ₂	P ₀	P ₃	P ₄	P ₁	P ₀	P ₄	
0	2	4	5	7	9	11	12	13	14

$$\text{Avg TAT} = 8.6$$

$$\text{Avg WT} = 5.8$$

"Happiness is not a destination. It is a method of life." - Burton Hills