



## 1. FCFS

Poucess	Assival time	Brust	Completion time	TAT	WT	RT	
Pi	3	5	9	6			TAT=CT-AT WT=TAT-BT
P <sub>2</sub>	0	4	4	4	0	0	RT={CPLI - AT
P <sub>3</sub>	4	2	11	7	5	5	
P4	5	4	15	1.0	6	6	

TimeLine

	P2	P2	P2	P <sub>2</sub>	P <sub>i</sub>	Pi	Pi	Pı	Pi	P3	P3	Pu	Ри	Ри	P4	
,	0	1	2	3	4 !	5	6 -	7	દુ	9 1	0 1	1 1	2 1	3 1	4 15	

Ready Qeue

1	P <sub>2</sub>	Pı	P <sub>3</sub>	Py
	12		, 3	1,4

Aresage Wait time: (1+0+5+6)/4 = 3ms

Average turn around time: (6+4+7+10)/4 = 6.75mg

Average Response time: (1+0+5+6)/4 = 3ms

2. SJF (Preemptive).

<b>/</b> _	3.5							
1	900677	Assival time	Boust time	Completion time	TAT	WT	RT	
	Pi	3	5	15	12	7	7	-
	P <sub>2</sub>	6	4.5	4	147	11 01	٥	
	P <sub>3</sub>	4	2	6	2	0	0	
	P4	5	4	10	5	4.		

TAT = CT - AT
WT = TAT-BT
RT = S(PL) time - AT

				(1) - (A)	
lime Line				D P.	P
11. 上下1. 在	P2 P2 P2 P2 P3	P3 Pu Pu Pu Pu Pa	PIPI	17 11	1115
	2 1 2 3 4	5 6 7 8 9 1	0 11	12 13	ju is

Ready Queue\_

	R	PW	P3/	PX
	4-1=3		2-1=1	4-1=3
	3-1=2	4-1=3 3-2=1	1-1=0	3-2=2
Average Wai	it time:	1-1=0		2-1=1
	4.6	(7+0+0+	H) /4 = 2 ms	

Average turn around time

$$(12+4+2+5)/4 = 5.75 \, \text{ms}$$

Average Response time

$$(7+0+0+1)/4 = 2ms$$

3. RR (time Slice: 2ms)

ľ	The second second	-					., F
	Peocess	Assival lime	Boust time	Completion time	TAT	WT	RT
-	P	3	5	15	12	7	
	P <sub>2</sub>	0	4	4	4	0	0
ı	P <sub>3</sub>	4	2	පි	4	2	2
	Py	5	4	14	9	5	3

Time Line	P <sub>2</sub>	P <sub>2</sub>	Pi	P <sub>3</sub>	P4	P,	Pu	P,
	D	2	4 . 6	)	8	0 1	2 1	4 15

Ready Queue

J					1		١
PS	R	P3	P4	P	R	Pi	
4-2	5-2	2-2	4-2	3-2	2-2	1	
2-2	3	D	2		В		

Average Wait time: (7+0+2+5)/4 = 3.5 ms

Average turn around time: (12+4+4+9)/4 = 7.25 ms

Average Response time: (1+0+2+3)/4 = 1.5 ms