

Scheduling Algorithms

1. FCFS
2. SJF
3. Round Robin
4. Priority
0. Exit

Enter Your Choice : 1

FCFS

Enter number of processes : 3

Arrival time of P1 : 0

Burst time of P1 : 6

Arrival time of P2 : 4

Burst time of P2 : 4

Arrival time of P3 : 3

Burst time of P3 : 2

ID AT BT TAT WT

P1	0	6	6	0
P3	3	2	5	3
P2	4	4	8	4

Average turnaround time : 6.3333335

Average waiting time : 2.3333333

Gantt chart :

0--->6 : P1
6--->8 : P3
8--->12 : P2

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1. FCFS
2. SJF
3. Round Robin
4. Priority

0. Exit

Enter Your Choice : 2

SJF

Enter number of processes : 4

Arrival time of P1 : 0

Burst time of P1 : 4

Arrival time of P2 : 2

Burst time of P2 : 7

Arrival time of P3 : 3

Burst time of P3 : 2

Arrival time of P4 : 3

Burst time of P4 : 2

ID AT BT TAT WT

P1 0 4 4 0

P2 2 7 13 6

P3 3 2 3 1

P4 3 2 5 3

Average turnaround time : 6.25

Average waiting time : 2.5

Gantt chart :

0--->4 : P1

4--->6 : P3

6--->8 : P4

8--->15 : P2

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1. FCFS

2. SJF

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0. Exit

Enter Your Choice : 3

Round Robin (Preemptive)

Enter number of processes : 3

Enter the quantum : 2

Arrival time of P1 : 1

Burst time of P1 : 5

Arrival time of P2 : 0

Burst time of P2 : 4

Arrival time of P3 : 2

Burst time of P3 : 7

ID AT BT TAT WT

P2 0 4 8 4

P1 1 5 12 7

P3 2 7 14 7

Average turnaround time : 11.333333

Average waiting time : 6.0

Gantt chart :

0--->2:P2

2--->4:P1

4--->6:P3

6--->8:P2

8--->10:P1

10--->12:P3

12--->13:P1

13--->15:P3

15--->16:P3

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1. FCFS
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4. Priority
0. Exit

Enter Your Choice : 4

Priority (Non-Preemptive)

Enter number of processes : 4

Arrival time of P1 : 0

Burst time of P1 : 4

Priority of P1 : 3

Arrival time of P2 : 1

Burst time of P2 : 2

Priority of P2 : 2

Arrival time of P3 : 2

Burst time of P3 : 3

Priority of P3 : 4

Arrival time of P4 : 4

Burst time of P4 : 2

Priority of P4 : 1

ID AT BT prior TAT WT

P1 0 4 3 4 0

P2 1 2 2 7 5

P3 2 3 4 9 6

P4 4 2 1 2 0

Average turnaround time : 5.5

Average waiting time : 2.75

Gantt chart :

0--->4:P1

4--->6:P4

6--->8:P2

8--->11:P3

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1. FCFS
2. SJF
3. Round Robin

4. Priority

0. Exit

Enter Your Choice : 0