

Enter type of scheduler :

0 for FCFS
1 for SJF
2 for Priority
3 for RoundRobin

0

Enter number of processes :

5

Enter arrive time of each process respectively :

4

6

2

1

0

Enter burst time of each process respectively :

8

12

4

6

18



Average Waiting Time =18.6

to restart press 1 or 0 to terminate

FCFS Scheduler :

- First user is asked to choose type of scheduler by entering a number form 0 to 3
- Then asked for number of processes .
- Then asked for arrival time of each process .
- Then asked for burst time for each one .
- Finally program prints time line showing start and departure time of each process

Note : every unit of time represented in double dash "--"

Enter type of scheduler :

0 for FCFS
1 for SJF
2 for Priority
3 for RoundRobin

1

Enter number of processes :

8

Enter arrive time of each process respectively :

5
2
4
3
1
6
0
7

Enter burst time of each process respectively :

8
2
7
3
1
9
12
15

press 0 for Non preemptive or 1 for Preemptive :

0

|0|-----P6-----|12|P4|13|-P1-|15|--P3--|18|-----P2-----|25|-----P0-----|33|-----P5-----|42|-----P7-----|57|

Average Waiting Time =16.25

to restart press 1 or 0 to terminate

- SJF (Non preemptive)

- User enters information like FCFS

- Time line here is slightly different . for example (|--P3--|)

P3 represents 1 unit of time and every "--" is represents a unit so total time is 3

- User can try another scheduler by pressing 1 at the end or 0 to terminate the program

Enter type of scheduler :

0 for FCFS
1 for SJF
2 for Priority
3 for RoundRobin

1

Enter number of processes :

6

Enter arrive time of each process respectively :

5
2
9
11
1
0

Enter burst time of each process respectively :

10
5
2
7
13
15

press 0 for Non preemptive or 1 for Preemptive :

1

|0|P5--|1|P4--|2|P1-----|7|P0---|9|P2---|11|P3-----|18|P0-----|26|P4-----|38|P5-----|52|

Average Waiting Time =12

to restart press 1 or 0 to terminate

- SJF(Preemptive)

- Time line : P4 for example or Pn generally is not considered as time only "--" is represents the time .


```
C:\WINDOWS\system32\cmd.exe
Enter type of scheduler :
0 for FCFS
1 for SJF
2 for Priority
3 for RoundRobin
2
Enter number of processes :
7
Enter arrive time of each process respectively :
10
2
6
0
14
8
17
Enter burst time of each process respectively :
6
7
2
9
1
10
12
Enter priority of each process respectively :
5
2
4
3
7
0
1
press 0 for Non preemptive or 1 for Preemptive :
0
|0|-----P3-----|9|-----P5-----|19|-----P6-----|31|-----P1-----|38|-P2-|40|-----P0-----|46|P4|47|
Average Waiting Time =18
to restart press 1 or 0 to terminate
```

- Priority (Non preemptive)

```
C:\WINDOWS\system32\cmd.exe
Enter type of scheduler :
0 for FCFS
1 for SJF
2 for Priority
3 for RoundRobin
2
Enter number of processes :
7
Enter arrive time of each process respectively :
5
2
7
3
4
11
6
Enter burst time of each process respectively :
8
2
4
6
11
14
3
Enter priority of each process respectively :
8
2
7
3
4
0
6
press 0 for Non preemptive or 1 for Preemptive :
1
|2|P1----|4|P3-----|10|P4--|11|P5-----|25|P4-----|35|P6-----|38|P2-----|42|P0-----|50|
Average Waiting Time =16.8571
to restart press 1 or 0 to terminate
```

- Priority (Preemptive)

Enter type of scheduler :

0 for FCFS
1 for SJF
2 for Priority
3 for RoundRobin

3

Enter number of processes :

5

Enter arrive time of each process respectively :

8
2
4
0
12

Enter burst time of each process respectively :

8
4
12
2
6

Enter Quantam

3

|0|-P3-|2|--P1--|5|--P2--|8|--P0--|11|--P4--|14|P1|15|--P2--|18|--P0--|21|--P4--|24|--P2--|27|-P0-|29|--P2--|32|

Average Waiting Time =8.8

to restart press 1 or 0 to terminate

- Round Robin (Q=3)