

=====  
|Running result|  
=====

Test 0 (FCFS)

	Burst time	Arrival time	Start time	Finish time	Waiting time	Response time	Turnaround time
A	20	0	0	20	0	0	20
B	12	10	20	32	10	10	22
C	5	16	32	37	16	16	21
D	7	18	37	44	19	19	26
E	13	20	44	57	24	24	37
Average					13.8	13.8	25.2

Test 1 (SJF)

	Burst time	Arrival time	Start time	Finish time	Waiting time	Response time	Turnaround time
A	20	0	0	20	0	0	20
B	12	10	32	44	22	22	34
C	5	16	20	25	4	4	9
D	7	18	25	32	7	7	14
E	13	20	44	57	24	24	37
Average					11.4	11.4	22.8

Test 2 (NP\_Priority)

	Burst time	Arrival time	Start time	Finish time	Waiting time	Response time	Turnaround time
A	20	0	0	20	0	0	20
B	12	10	40	52	30	30	42
C	5	16	52	57	36	36	41
D	7	18	33	40	15	15	22
E	13	20	20	33	0	0	13
Average					16.2	16.2	27.6

=====  
|Comparision|  
=====

According to the above and other results, it shows that SJF has a lower average waiting time, response time and turnaround time than FCFS.

Therefore it can come to the below conclusion:

-FCFS

Pros:

1. Easy to implement and understand
2. Starvation will not happen

Cons:

1. High waiting time, response time and turnaround time
2. Short jobs might have to wait till long jobs finish

-SJF

Pros:

1. Low waiting time, response time and turnaround time

Cons:

1. Starvation is possible
2. Have to be given the burst time
3. It is possible that the turnaround time is still high