

Operating System

Topic: Shortest Job First, Shortest Remaining Time First

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- 1. Consider the set of 5 processes whose arrival time and burst time are given below-
 - Turn Around time = Exit time Arrival time
 - Waiting time = Turn Around time Burst time

Process Id	Arrival time	Burst time
P1	3	1
P2	1	4
Р3	4	2
P4	0	6
P5	2	3

2. Consider the set of 5 processes whose arrival time and burst time are given below-

Process Id	Arrival time	Burst time
P1	3	1
P2	1	4
P3	4	2
P4	0	6
P5	2	3

If the CPU scheduling policy is SJF preemptive, calculate the average waiting time and average turn around time.

- 3. Consider the set of 6 processes whose arrival time and burst time are given below-
 - Turn Around time = Exit time Arrival time
 - Waiting time = Turn Around time Burst time

Process Id	Arrival time	Burst time
P1	0	7
P2	1	5

P3	2	3
P4	3	1
P5	4	2
P6	5	1

If the CPU scheduling policy is shortest remaining time first, calculate the average waiting time and average turnaround time

- 4. Consider the set of 3 processes whose arrival time and burst time are given below-
 - Turn Around time = Exit time Arrival time
 - Waiting time = Turn Around time Burst time

Process Id	Arrival time	Burst time
P1	0	9
P2	1	4
P3	2	9

If the CPU scheduling policy is SRTF, calculate the average waiting time and average turn around time.

5. Consider the set of 4 processes whose arrival time and burst time are given below-

Process Id	Arrival time	Burst time
P1	0	20
P2	15	25
P3	30	10
P4	45	15

If the CPU scheduling policy is SRTF, calculate the waiting time of process P2.