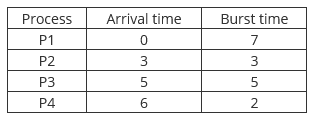
**CPU Scheduling Practice Question**

1. Consider the following CPU processes with arrival times (in milliseconds) and length of CPU bursts (in milliseconds) as given below: **(GATE-2017)**



If the **pre-emptive shortest remaining time first** scheduling algorithm is used to schedule the processes, then the average waiting time across all processes is \_\_\_\_\_\_\_\_\_ milliseconds**.**

1. Which of the following is false about SJF? S1: It causes minimum average waiting time

S2: It can cause starvation

(A) Only S1 (B) Only S2 (C) Both S1 and S2 (D) Neither S1 nor S2 Answer

1. Consider the following table of arrival time and burst time for three processes P0, P1 and P2. **(GATE-CS-2011)**

|  |  |  |
| --- | --- | --- |
| **Process** | **Arrival time** | **Burst Time** |
| **P0** | **0 ms** | **9 ms** |
| **P1** | **1 ms** | **4 ms** |
| **P2** | **2 ms** | **9 ms** |

The pre-emptive shortest job first scheduling algorithm is used. Scheduling is carried out only at arrival or completion of processes. What is the average waiting time for the three processes?

1. Consider the following table of arrival time, Priority, and burst time for five processes **P1, P2, P3, P4,** and **P5**.

| Process | Arrival Time | Priority | Burst Time |
| --- | --- | --- | --- |
| P1 | 0 ms | 3 | 3 ms |
| P2 | 1 ms | 2 | 4 ms |
| P3 | 2 ms | 4 | 6 ms |
| P4 | 3 ms | 6 | 4 ms |
| P5 | 5 ms | 10 | 2 ms |

Find Average TT and WT for Priority CPU Scheduling Algorithm. Small number being higest priority.

