OS Lab(CSLR42) - Lab 5 - 09/03/2021

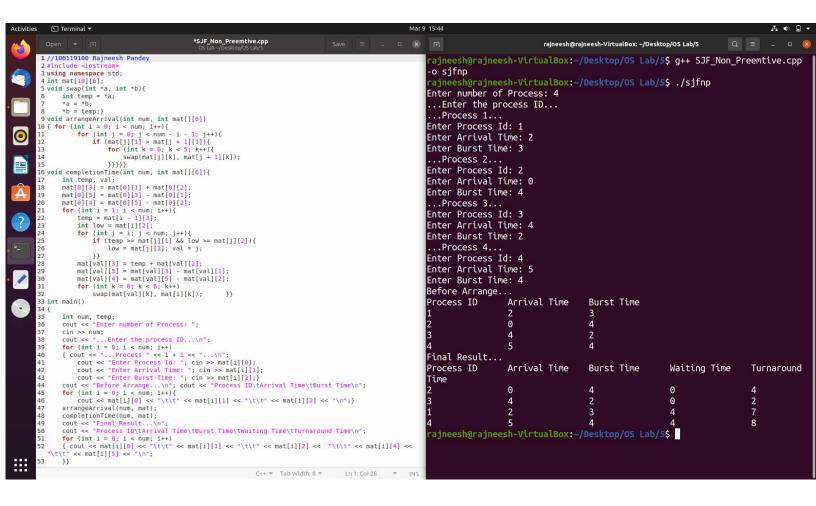
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Question 1:

Program for Shortest Job First (or SJF) CPU Scheduling (Non- preemptive)

Shortest job first (SJF) or shortest job next, is a scheduling policy that selects the waiting process with the smallest execution time to execute next. SJN is a non-preemptive algorithm.

Program and Input/Output

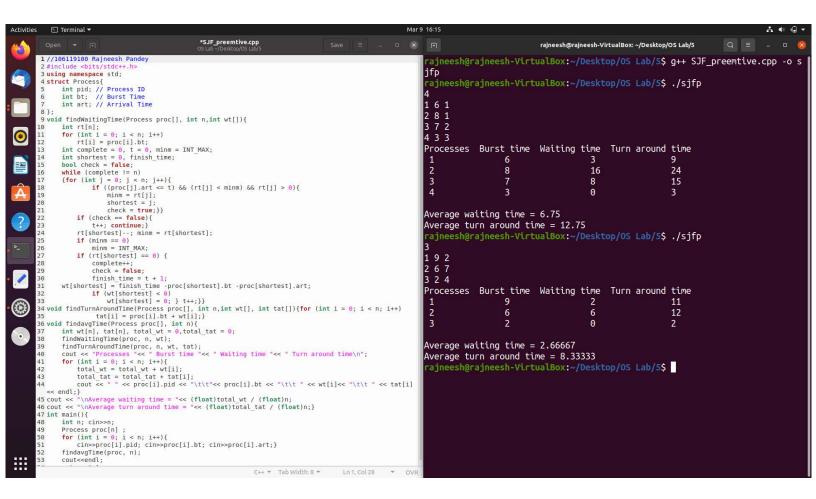


Question 2:

Program for Shortest Job First (SJF) scheduling (Preemptive)

Shortest Remaining Time First (SRTF) scheduling

In the Shortest Remaining Time First (SRTF) scheduling algorithm, the process with the smallest amount of time remaining until completion is selected to execute. Since the currently executing process is the one with the shortest amount of time remaining by definition, and since that time should only reduce as execution progresses, processes will always run until they complete or a new process is added that requires a smaller amount of time.



Question 2:

Program for Priority CPU Scheduling

Priority scheduling is one of the most common scheduling algorithms in batch systems. Each process is assigned a priority. Process with the highest priority is to be executed first and so on.

Processes with the same priority are executed on first come first served basis. Priority can be decided based on memory requirements, time requirements or any other resource requirement.

