

CS370

Help Session for HW5
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Assignment Review

- Write a C/C++ program to demonstrate the following scheduling algorithms
 - First Come First Serve
 - Shortest Job First with Preemption
 - Priority Scheduling with Preemption

First Come First Serve

- Non pre-emptive
- Schedules with respect to arrival time
- Process that arrived first will get the CPU burst until it completes

Shortest Job First

- The process with less amount of burst time is prioritized
- In case of Preemptive Shortest Job First (also known as SRTF), when a process arrives, and has less burst time than the current running process, then the current running process is switched with the new process

Priority Scheduling

- As the name suggests, the scheduling occurs on the basis of priority of the processes
- In case of Preemptive Priority Scheduling, if a process with a higher priority compared to the current executing process arrives, then the current executing process is switched out with the arriving process

Example

Process Number	Arrival Time	Burst Time	Priority
1	0	6	4
2	3	2	3
3	6	2	1
4	10	1	2
5	12	4	10

Other Requirements

- Language: C or C++
- Must run on department machines
- Use Canvas to submit a single .tar file named HW5.tar that contains:
 - All files related to the assignment
 - A README.txt file containing a description of each file and any information you feel the grader may need