Write a program in C++ to simulate the following CPU scheduling algorithms.

a. FCFS
b. SJF
c. Non-preemptive priority
d. Round-Robin
e. Priority with Round-Robin

    Schedules tasks in order of priority and uses round-robin for scheduling tasks with equal priority.

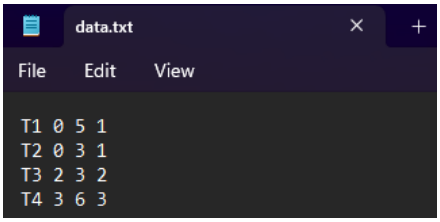
**Assumptions:**

1. Priorities range from 1 to 10, where a higher numeric value indicates a higher relative priority.

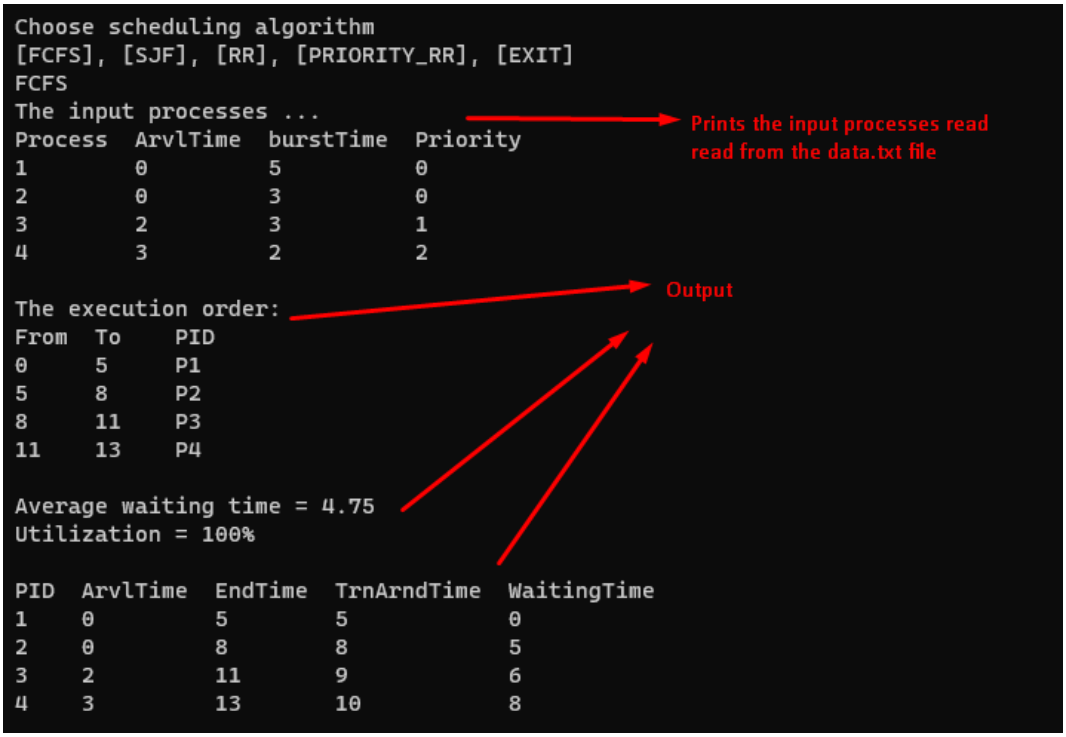
2. For round-robin scheduling, the length of a time quantum is 2.

3. For Priority with Round-robin scheduling, no running process shall be preempted until its time quantum is expired even if a high propriety process enters the system during this time.

The scheduler will be assigned a predefined set of tasks written in a text file as follows:




The schedule of tasks has the form [Task name] [Arrival time] [Burst time] [Priority]




Your code should be properly commented.