Operating Systems

Assignment: -

Implementation Multilevel Queue (MLQ) CPU Scheduling

Description: -

The MLQ has three queues,

- First the high queue is represented by **0** in the priority column, and the processes are scheduled by **Round Robin** scheduling algorithms with **q = 3** in this queue.
- Second the medium queue is represented by 1 in the priority column, and the
 processes are scheduled by Shortest Remaining First scheduling algorithms with q = 2 in
 this queue
- Third the low queue is represented by **2** in the priority column, and the processes are scheduled by **Shortest Job Next** scheduling algorithms in this queue

Input: -

you will get any number of processes as input each process has:

- Process name e.g. p0, p1,
- Arrival time (integer number)
- Execution time (CPU Burst time) (integer number)
- Queue number (between 0, 2)

Output: -

Describe line by line every event that occurs

Example: -

At t = 0 p0 arrived the queue

p0 entered kernel

At t = 1 p1 arrived the queue

At t = 3 p0 leaved the kernel and entered the queue

p1 entered the kernel

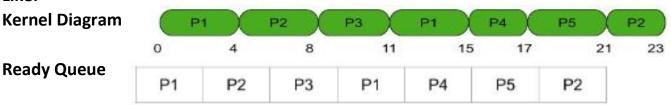
and so on

and at the end print each process Waiting Time and Average Waiting Time

Bonus: -

Bonus 3 points if you do GUI that print Kernel Diagram and Ready Queue in Table

Like: -



Deadline: Tuesday 28/11 in Section Maximum number in group 5 student.