CS 212: Midterm Exam Review Worksheet 2

Question 1: What advantages does MLFQ scheduling have over simple round-robin scheduling?

Question 2: Does it require a privileged instruction to issue a system call?

Question 3: What is the difference between a trap and an interrupt?

Question 4: On the state transition diagram for processes, there are no transitions from Ready to Blocked, or from Blocked to Running. Why not?

Question 5: What are the consequences of increasing the length of a scheduler's time slices?

Question 6: A process calls `malloc()` to allocate a 1024 byte buffer which it then passes to `getline()` to read a line of text. The line that is read is only 68 bytes long. Does this result in internal or external fragmentation?

Question 7: Is one of the advantages of paging that it leads to less internal fragmentation or less external fragmentation?