

Name: _____

Career Account ID (email): _____

Assignment 1:

Due 22 Sunday 11:59pm on Blackboard.

Consider a set of Xinu processes. Each of the questions below starts with this set of processes.

Process	Priority	State
1	20	Current
2	20	Ready
3	20	Ready
4	10	Ready
5	20	Receiving
6	20	waiting on semaphore 10
7	30	waiting on semaphore 10

1. (5 pts) Which of the processes are on lists, and what is the order of processes on each list?
2. (5 pts) If a timeslice expires and resched is called, how does the order of processes on lists change, if at all?
3. (5 pts) Suppose the current process calls send (5, 170). Explain the steps the operating system takes, the functions involved, which process executes, and any changes to the lists.
4. (5 pts) Suppose the system starts with the initial set of processes and instead of calling send, the current process calls signal(10). Explain the steps the operating system takes, the functions involved, which process executes, and any changes to the lists.

Submission instructions:

Submit your file to blackboard before the due date and time.