Project 3: Scheduler Implementation

In this assignment, you will implement two scheduling algorithms: First-come first-serve (FCFS) and priority-based scheduling. You will report the average wait and turnaround times for all your processes. Assuming uniq (user) and uniq (kernel) are two different processes, similar to your prior assignment, you will create a new test.c that calls both programs and reports these statistics. Similarly, you will repeat the procedure for different processes.

Test\_scenarios

1. FCFS
   1. When user processes arrive before the kernel process, report all the statistics.
   2. Whenever the kernel process arrives before the user, report all statistics
2. Priority
   1. When the User process has the highest priority, report your scheduler statistics.
   2. When the kernel processes have the highest priority, report your scheduler statistics.
   3. When there is mixed priority, report your scheduler statistics (note: this would be if a user denotes updated priority values from a default set.)

Submission instructions are similar to prior assignments, where you will submit a complete folder with a ReadMe file, screenshots, and xv6 code implementation.

Additional Information: Be sure to clearly describe how your schedulers work and how the user is intended to interact at the command line. If you only modify the test such that the scheduler type is a flag, explicitly express that. If you choose to write a pair of modified test files for each scheduler, denote that as well.

RUBRIC:

 - The project does not make in xv6 -200pts

 - Missing makefile -100pts

 - Each additional missing relevant file -50pts (e.g., screenshots, test files, etc.)