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Class: EECS 338 Introduction to Operating Systems

Proposal

1. Yes, I do have a partner. My partner’s name is Steve Ruan
2. The project will be based around CPU scheduling algorithms. I had spoken with the professor about this topic and he agrees that this would be an interesting focus for this project. The project will involve coding and creating the programs for a few of the algorithms used in CPU scheduling, such first come first served (FCFS), shortest job first (SJF), priority, and round robin (RR). We will then input the data arbitrarily for the total number of processes and process burst time. The output for the code should be a resulting average waiting time and an average turnaround time. This way we can test the speeds of the scheduling algorithms to see which one is fastest for CPU scheduling.
3. This project will cover process management because we are testing the CPU scheduling algorithm which will manage the actual processes running on the CPU. It will decide how and when to run the CPU processes and test the speeds of the algorithms.
4. I do not believe we will be using specialized code written by anyone else because the code seems to be revolved around needing the number of processes and a burst time for the processes. If anything changes in this section I will be sure to update the TA accordingly
5. The software language will be just in C, and we will be using the Case EECS lab to run our code, and later the HPCC to work with the CPU scheduling code as well.