Project: Scheduling

Protocol for Project Submission and Testing

Documentation

- Submit your source code to the appropriate bin on EEE by the due date.
- The code you submit must be *exactly* the code you use for your testing. If you need to make any changes after submission then inform the TA prior to testing.
- We may run your code should there be any reason to doubt its origin or authenticity.
- No other documentation is necessary.

Testing

- You need to see the TA during one of the time windows on the due date (time and place will be announced by email).
- You should bring your own laptop for the test. If you do not have a laptop or prefer not to use it, then let us know well ahead of the due date.
- Your program must be able to read text files (.txt extension, similar to the one posted on the web) from a USB memory stick, and write text files (similar to the one posted on the web) to the same memory stick.
- When you start your program, it should perform the following steps
    - read the text file input.txt from a memory stick that will be given to you; this contains a single line of integers separated by blanks, where each integer pair represents the arrival time (ar_i) and the total service time (t_i) of a process
    - for each of the 4 different scheduling algorithms, determine the average turnaround time (T) of all processes and the real time (r_i) of each process
    - generate an output file containing 4 separate lines of the form T r_1 r_2 … r_n; each line corresponds to one of the scheduling disciplines
    - write this file to the same memory stick under the name nnn.txt, where nnn is your 8-digit student number
- You only get one chance to run the test, except when there is some minor problem that results in a catastrophic failure and can be fixed on the spot, e.g., the program crashes and produces no results.
- We will evaluate the output your program produces (not during the demo session) and report the results to you. You can contact the TA to see the tests you failed. If you have a valid justification for why your results are different, we may accept the results or award additional credit.

I suggest that you test the protocol before coming to the demo session to avoid unnecessary delays/problems:

- copy the sample input file from the web page onto a memory stick

- run the above protocol
- check your memory stick to make sure it contains a file nnn.txt that matches the sample output file on the web page