Project 5 Rubrics

Coding:
- Provide clear instructions to the user and obtain all inputs in required format
- Generate random numbers in the correct range to represent length of service, and symbols representing customers
- Generate random numbers in the correct range for symbols representing customers
- Ensure that no two consecutive customers are represented by the same symbol
- Program runs successfully, and updates queue correctly
- Program runs successfully, and computes counts and statistics correctly:
  - idle time
  - maximum queue length
  - average queue length
- Properly formatted output throughout

Coding Conventions
- Clear and informative comments including your name and purpose of program
- Descriptive names for variables
- Indentation of code

Test runs – A total of at least 10:
- Show output with inputs 0.25, 50, 2, 10 (same as in the sample output)
- At least two test cases showing queue growing out of control
- At least two test cases showing too much idle time
- At least two test cases showing queue growing about right, but with different inputs (frequent arrivals with short processing vs infrequent arrivals with longer processing)
- Weird inputs to test the program limitations – inputs for which the program does not work or does not make sense (e.g. customer arrival rate = 0 or 1, processing time in range 4 to 4, etc). Be sure to discuss in report.

Report
- Part 1: Source code, nicely formatted
- At least 10 test runs
- Discuss any known errors or limitations of the program
- Part 2: Discussion & conclusions from experimentation
- Brief statement about your experience with project 5

Extras
- Implement challenge for the bored part

Comments:

Report Received on due date: submitted on blackboard