Due: March 1, 2019

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Objective Write a program to simulate customer transactions in a bank using queues (implemented as classes).

Program Description The bank has 3 teller lines (queues). Each line is to be simulated by a queue. One of the teller lines is an express line (check cashing/deposit only).

Rules

- 1. Customers go to shortest line (can't look at the transactions that the other customer(s) in front of them have).
- 2. If a line has no customers in it, a customer may move from the end of a line (queue) to an open line.
- 3. Express line transactions take two clock cycles, the other lines process transactions at the rate of one transaction for each four clock cycles.

Requirements

- 1. Write functions to:
 - Remove a customer from the end of a queue
 - Move a customer from one queue to another
 - Display the contents of all queues (testing)
- 2. Test your program.
 - Read data from an external file
 - Create reasonable display of the banking process.

Deliverables

- Program—fully documented.
- A program design. Describe all classes and methods needed to implement your program.
- Programming Log:
 - Record the time required to design and implement your program.
 - Record of things you encountered/learned while implementing your program.
- Output—proof that your program worked.

If you have any questions regarding this assignment, do not hesitate to contact me. Start working on this assignment as soon as possible.