Please write some code for this problem. Any kind of pseudocode is fine, as long as its meaning is clear. You may assume common primitives such as hash tables and linked lists: you do not need to implement them.

The espresso franchise in the strip mall near my house serves customers FIFO in the following way. Each customer entering the shop takes a single “ticket” with a number from a “sequencer” on the counter. The ticket numbers dispensed by the sequencer are guaranteed to be unique and sequentially increasing. When a barrista is ready to serve the next customer, it calls out the “eventcount”, the next highest unserved number previously dispensed by the sequencer. Each customer waits until the eventcount reaches the number on its ticket. Each barrista waits until the customer with the ticket it called places an order.

Show how to implement sequencers, tickets, and eventcounts using mutexes and condition variables. Your solution should also include code for the barrista and customer threads.