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Bus Simulation by Taiye Bello

There are 12 classes in the project, the following classes were given; Segment, Q2, Q, PQInterface, PQ, and Event. The following 6 classes were written by me; Bus, BusSim, BusEvent, PassengerEvent, Passenger, and Stop. The bus class holds the number of passengers on a bus at a given time and is instantiated once, the stop class has two queues for each stop and is instantiated once. The BusEvent class was created for every arrival of a bus at a bus stop, when a bus arrives at a stop the BusEvent class checks to see if there are passengers that wish to get off. It then takes those passengers off and picks up any passengers that wish to get on the bus. The passenger class is passive and hold information about a passenger's arrival time and their next stop. The Passenger Event class is instantiated once and one is made for each stop, it creates a passenger and places it in the appropriate queue. The BusSim class holds at the statistics where the Passenger Event, Bus Event and Buses are instantiated and is where the simulation is run.

The logic for the project is correct but for some unknown reason some variables in the BusSim class are not changing. There are no other known bugs or errors in the simulation.