



Single channel Queuing System Project

BY STUDENT AMR RAAFAT MOHAMMED

Simulation results

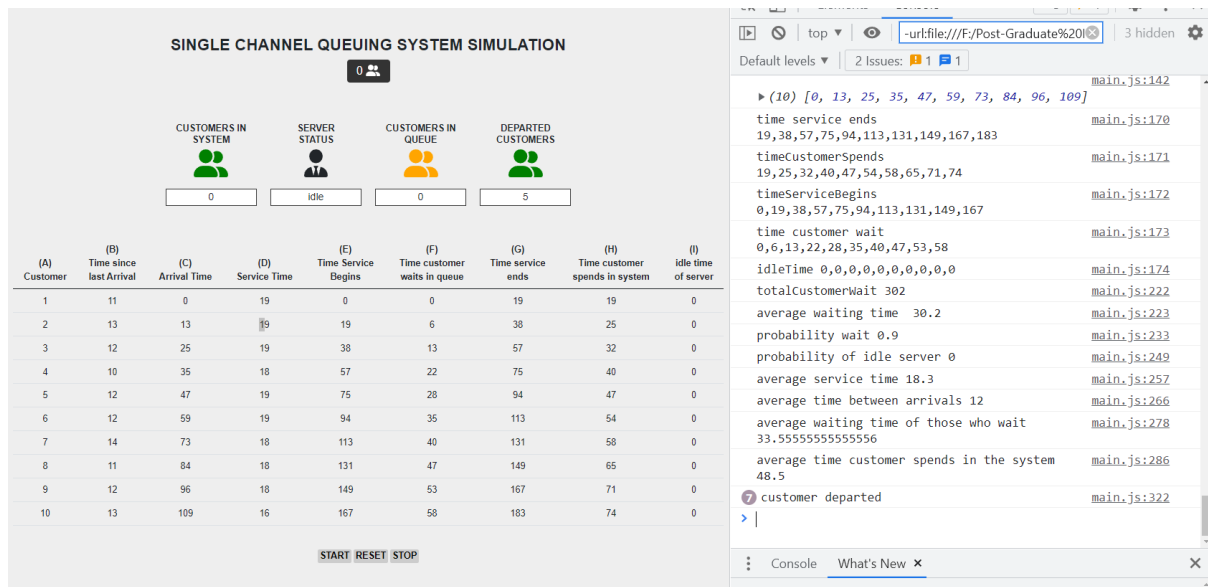


Figure-1 Simulation run for given values

As shown in figure-1, we notice the following values:

- Average waiting time=30.2 minutes
- Average Service time=18.3 minutes
- Average time between arrivals=12 minutes
- Average waiting time of those who wait=33.55 minutes
- Average time customer spends in the system=48.5 minutes

Comparing the data with the norm of tire changing service:

Tire changes only take about 30-45 minutes for all tires, which also depends on the equipment and the number of technicians working on the change.

Therefore the results of our simulation are **acceptable** for tire changing services.

However, we notice that the average waiting time for those who wait is 33.55 minutes which is not well for business model, and it is advised to increase labor in order to reduce customers waiting time.