The simulation has one queue and one server shown in Figure 1.

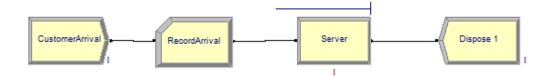


Figure 1. Arena Model

The arrival rate has a uniform distribution between 1 and 5 minutes.

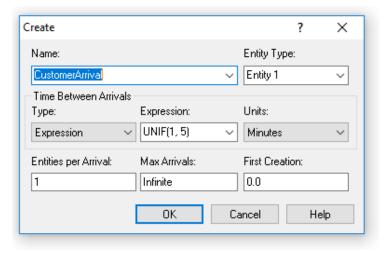


Figure 2. Parameters for CustomerArrival

The time between arrivals was captured to confirm the arrival rate.

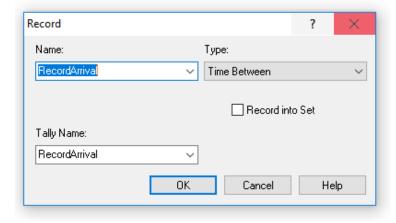


Figure 3. Parameters for RecordArrival

The customers are served at a rate with a uniform distribution between 2 and 3 minutes.

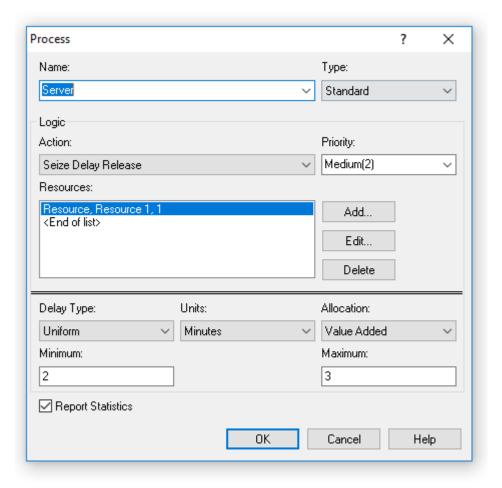


Figure 4. Parameters for Server

The customers are then served and disposed from the system.

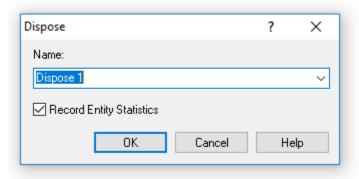


Figure 5. Parameters for Dispose 1

The simulation was run with 1 replication for 100 minutes.

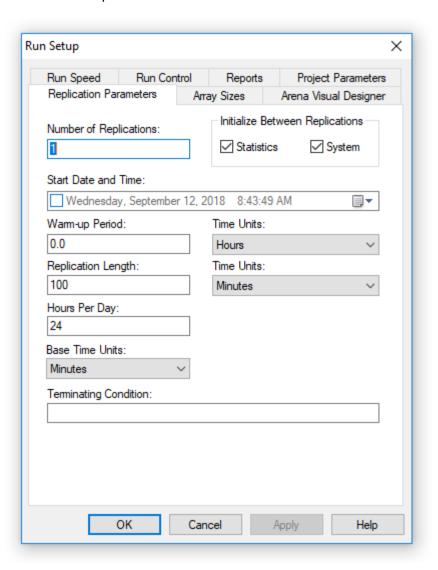


Figure 6. Replication Parameters

Summary: This ARENA model simulates a simple 1 queue, 1 server system. The customers arrive at a uniform rate from 1 to 5 minutes and they are then served at a uniform rate from 2 to 3 minutes. This model was run with 1 replication for 100 minutes. For a summary of the results please see the other homework document submitted.