**BASUNDHARA DEY (NID: ba407257)**

(1) What is the probability that the entire queuing system has 0 customer? Has 2 customers? Has 9 customers? (Please clearly describe how you derive the answers)

Probability (0 customer) = 0.464950

Probability (2 customer) = 0.035050

Probability (9 customer) = 0.000000

(number of instances zero is gotten in the system state array (“SystemState”))

Probability = -------------------------------------------------------------------------------------------------------

(total number of instances in the same array)

Similarly we get the probability for 2 customers and 9 customers.

(2) During the entire simulation process, how many customers have been dropped from the system because of the limited queue sizes of the two servers?

No. of customers dropped = 0.000000

(3) If we consider each server individually, what is the average response time (time between the customer enters a queue and time the customer finishes service from this server) of Server 1 and Server 2, respectively?

Server1 (Avg Response Time) = 0.104832

Server1 (Avg Response Time) = 0.058161

