Example:

Consider the Post-office of a small town. Due to an epidemic, the person incharge of stamping the letters is away. Hence a customer who has to send the letter has to first stamp the letter, using the stamp kept at the counter and then drop the letter into the box. The customer arrival follows geometric distribution with parameter 0.37. The probability with which the stamp is correctly placed on the letter is 0.73. Obtain the measures of effectiveness, assuming that the situation is modeled as a $Geo/Geo/\infty$ queue.

Solution:

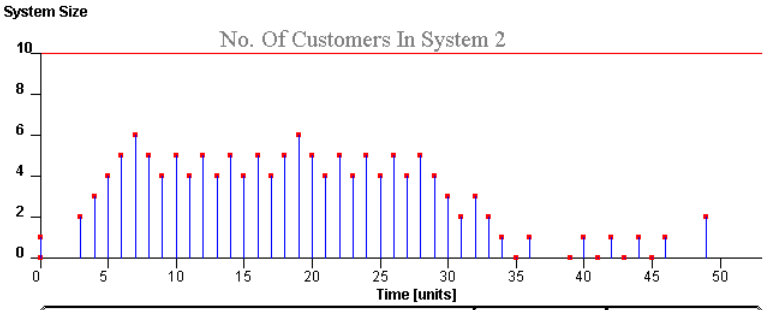
In order to obtain the measures of effectiveness, we follow the steps as shown below:

- Open the page where the experimentation is to be performed
- Feed the data as shown:

- Next, click on the **'Start'** button to obtain the desired measures of effectiveness

Discrete time infinite servers - infinite capacity model

Customers Entered = 24 Customers Served = 22



Performance Measures	Run Time *(till t=54)*	Steady State *(Theoretical)*
Mean No. of Customers in the System	2.849	N/A
Mean No. of Customers in Queue	0.0	N/A
Mean Waiting Time In Queue	0.0	N/A
Mean Sojurn Time In System	6.291	N/A
Utilisation	0.0020	N/A
Throughput	0.415	N/A

Pause Reset

Arrival Probability (p) : 0.37

Departure Probability (q) : 0.73

Number of Servers : Inf

Queueing Discipline :

(•) FIFO ( ) LIFO ( ) Random