

### 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. It has been observed that the customers arrive in bulks. The size of the arriving group has been observed to follow Poisson distribution with parameter 0.2. The arrival of the group follows geometric distribution with parameter 0.37. Further, the probability with which each customer places the stamp correctly on the letter is 0.73. Obtain the measures of effectiveness, assuming that the situation is modeled as a  $Geo^{[X]} / Geo / \infty$  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:

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#### Discrete time bulk arrival and bulk departure model

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

## Discrete time bulk arrival and bulk departure model

