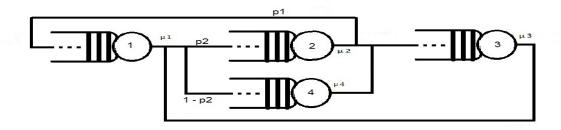
## Example:

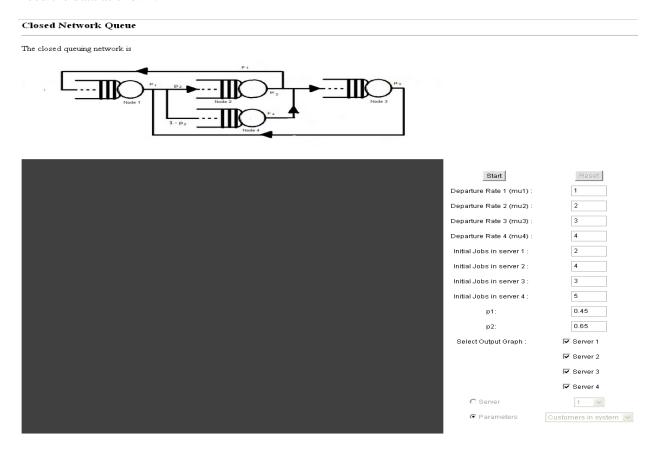
Consider a city consisting of four visiting sites. The visitors begin with any one of the four places. The visitors beginning with place 1, leave the place for place 2 with probability 0.65 and for place 4 with probability 0.35. With probability 0.45, the visitor reaches back to place 1 and with probability 0.55, the visitor reaches place 3, after which the customer again goes back to place 1. From place 4 also, the visitor is directed to place 3. It is assumed that the system begins with 2 customers at place 1; 4 customers at node 2; 3 customers at place 4 and 5 customers at place 3. The time for which the customer stays at each place is random and follows exponential distribution. The average time spent by a customer in place i is 1/i, i = 1, 2, 3, 4. Assuming that the scenario is modeled as queuing network shown below, evaluate the measures of effectiveness.



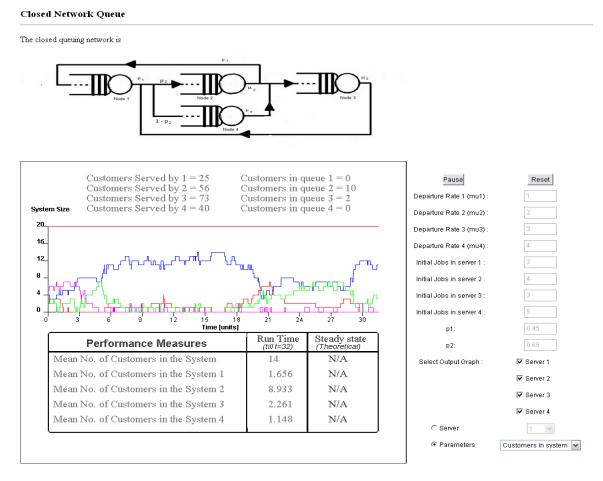
## Solution:

According to the question, the service rate at each place i is i. In order to obtain the measures of effectiveness, in steady state as well as via simulation, 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



- ➤ In the simulator, we are able to see graphs of the number of customer at each node (since Server1, Server 2 and Server 3 are ticked on the right side of the window)
- We also see an option for 'Parameters' from where we can choose the measure of effectiveness required.