

CS544 Assignment -1

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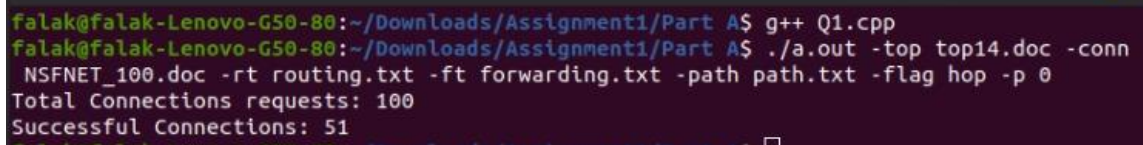
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Question 1

Commands-:

`g++ Q1.cpp`

`./a.out -top top14.doc -conn NSFNET_100.doc -rt routing.txt -ft forwarding.txt -path path.txt -flag hop -p 0`



```
falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part A$ g++ Q1.cpp
falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part A$ ./a.out -top top14.doc -conn
NSFNET_100.doc -rt routing.txt -ft forwarding.txt -path path.txt -flag hop -p 0
Total Connections requests: 100
Successful Connections: 51
falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part A$
```

Three output files **“path.txt”**, **“routing.txt”**, **“forwarding.txt”** will be generated containing all the output information.

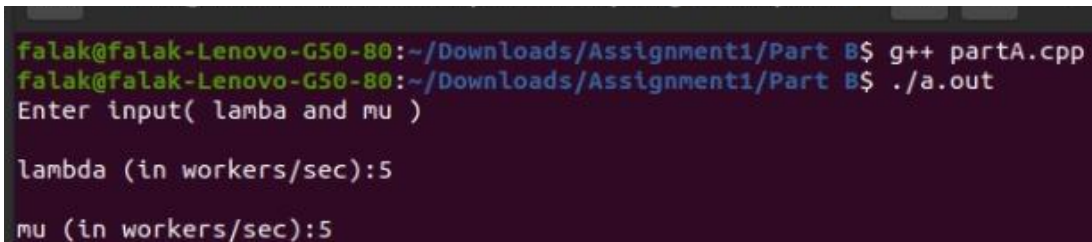
Question 2

Part A:

Commands-:

```
g++ partA.cpp
```

```
./a.out
```

A terminal window showing the execution of a C++ program. The user is at the prompt 'falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part B\$'. They enter 'g++ partA.cpp' and then './a.out'. The program prompts 'Enter input(lamba and mu)'. The user enters '5' for 'lambda (in workers/sec):' and '5' for 'mu (in workers/sec):'.

```
falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part B$ g++ partA.cpp
falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part B$ ./a.out
Enter input( lamba and mu )

lambda (in workers/sec):5
mu (in workers/sec):5
```

An output file with name "outputPartA.txt" will be generated containing all the output information.

Part B:

Commands-:

```
g++ partB.cpp
```

```
./a.out
```

A terminal window showing the execution of a C++ program. The user is at the prompt 'falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part B\$'. They enter 'g++ partB.cpp' and then './a.out'. The program prompts 'Enter input for simulating a testcase'. The user enters '4' for 'Simulation Time :', '5' for 'lambda_2 :', and '6' for 'mue_2 :'.

```
falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part B$ g++ partB.cpp
falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part B$ ./a.out
Enter input for simulating a testcase
Simulation Time :4
lambda_2 :5
mue_2 :6
```

An output file with name "outputPartB.txt" will be generated containing all the output information.

Part C:

Commands-:

```
g++ partC.cpp
```

./a.out

```
falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part B$ g++ partC.cpp
falak@falak-Lenovo-G50-80:~/Downloads/Assignment1/Part B$ ./a.out
Enter input for simulating a testcase

lambda (in workers/sec):5
mu (in workers/sec):5
```

An output file with name “outputPartC.txt” will be generated containing all the output information.