

User Manual

NETWORK SIMULATION and GRAPH ANALYSIS

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CONTENTS

A. Instructions for executing

1. There are two folders 1)NetworkGen 2)Analyser
2. To run the first part i.e. NetworkGen
 - (a) Open terminal.
 - (b) cd to NetworkGen
 - (c) Type "make" and wait for code to compile.
 - (d) Type "./run.sh -d (day) (inp)", where day- i No. of days for which you want to run the simulation and inp- i name of input file to clean.
 - (e) Type "make clean".
3. To run the first part i.e. NetworkGen
 - (a) Open terminal.
 - (b) cd to Abnalyser
 - (c) Type "make" and wait for code to compile.
 - (d) Type "./run.sh "
 - (e) Type Press 'q' for exit.
 - (f) Type "make clean".
4. If in the second part user exits without pressing q, message ques won't be deleted and type "./bash_file.sh"

B. System Requirements

Since message queues used by us only work on a unix system. Hence our system requirement is unix/linux for sure.

C.Queries supported

1. The clique of a node.
2. The length of shortest path between two nodes.
3. List of people on the shortest path of two nodes.
4. Largest short path in the graph.
5. Importance of the given node.

6. For checking if there is more important friend of a node than itself.

D.Format of entering the nodes

First specify the university as it was given in the graph and then specify the type and number. i.e. To specify a person with node id IITD_f_180 You have to do IITD f180.