IT LAB - M.TECH CS Lab - 7

October 22, 2019

Strongly Connected Components:

- 1. Write a program to implement the algorithm based on DFS to obtain the strongly connected components(SCC) in a directed graph. Implement the algorithm using a function for DFS.
- 2. The program is run using command line arguments with the first argument as the input file name and the second argument as the output file name. For example: ./scc input.txt output.txt

Input: Input is given in a file with first line containing number of vertices followed by the number of edges followed by the graph given as an edge list.

n m

u v w(u, v)

Output: Number of the strongly connected components followed by each line containing the vertices of one SCC.

Submit the assignment in the google class room page