Programming assignment 8

Topological sort

Implement a program to topologically sort the vertices of a given graph if it is a DAG.

During the DFS procedure, visit the vertex with smaller vertex number first.

Input (Standard input)

  From the next line, the adjacency list of graph G is represented by the incident vertices

  x and y.

  This means the edge from vertex x to vertex y exists.

Output (Standard output)

  In the first line, if the graph G is a DAG, print 1. Otherwise, print 0.

  If it is a DAG, in the next line, print the vertices in the topological order.

[Example]

Input	Output
9 1 4 1 5 2 5 4 5 4 6 6 9 7 6 7 8 8 9	1 7 8 3 2 1 4 6 9 5

Description

1. File name must be Topological_sort.cpp

2. Make the comment of student ID, name and class in the first line of the source code.

   ex) 2008601028_Honggildong_A   or   2008601028_홍길동_A

3.Please keep the source code that you have submitted for unexpected accident.