

Programming assignment 12

Topological Sort

Input (Standard input)

In the first line, the number of vertices N ($1 \leq N \leq 1,000$) is given.

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.

You must discover the lowest numbered node first (increasing 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 CountingSort.cpp
2. Make a comment of your student ID, name and class in the first line of the source code.
ex) 2014601028_Honggildong_A or 2014601028_홍길동_A
3. Please keep the source code that you have submitted for some unexpected accident.