

# 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

### [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.