Java  $\rightarrow$  Implementation of basic algorithms  $\rightarrow$  Topological sort

## **Topological sort** → **Variables and** constraints

9 users solved this problem. Latest completion was 2 days ago.

Hard ( 2 minutes (

Code Challenge — Write a program

You are given several variables. There are a few constraints for those variables. Determine if the constraints conflict with each other. In case they don't, print the number of variables that can take the smallest values.

**Input:** the first line contains two number n and m – the number of variables and the number of constraints. Next n lines have names of variables in Latin. The length of a variable name is less than 11. The next *m* lines describe constraints: {name1}<{name2} or {name1}>{name2}.

Output: NO, if constraints contradict each other. Otherwise print the number of variables that can take the smallest values.

| _  |    |    |     |    | _ |
|----|----|----|-----|----|---|
| Sa | mp | le | Inp | ut | 1 |

5 4 a

var

count a<x

var>x

b<x count>b

## Sample Output 1:

**Code Editor** 

<u>IDE</u>

Java

1

2 3

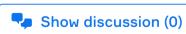
Run



-O- Code snippets from theory

Postpone problem

Time limit: 8 seconds Memory limit: 256 MB



https://hyperskill.org/learn/step/64521/1