Given N tasks, and the dependencies among them, please provide an execution sequence, which make sure jobs are executed without violating the dependency.

Sample File:

5

1<4

3<2

4<5

<eof>

First line is the number of total tasks.

1<4 means Task 1 has to be executed before task 4.

One possible sequence would be:

1 4 5 3 2

You don’t have to output all possible sequence. Just one is good enough.

Your program should be able to read an input file and run as follows. The output should be written to **console**.

Java: java JobScheduling <input file name>

C++: ./JobScheduling <input file name>