Extra credit assignment 5

In a factory, there are robots that operate at different speeds. The speed values are unknown. Only few relations between some of the robots are known. You are given the task to sort the robots by working speed even if not all the relations between robots are known.

Input:
2
1 2
1 3

Meaning:
First line contains n, the number of relations which will be given.
The following n lines will contain relations which have the following meaning:

1. Robot 1 is faster than robot 2
2. Robot 1 is faster than robot 3.

Possible correct outputs:

1. 1 2 3
2. 1 3 2

Write a program that generates 1 correct output.