**Algorithms with Java: Exam**

Please submit your solutions (source code) to all below-described problems in [Judge](https://judge.softuni.org/Contests/Compete/Index/3563#2).

**3. Guards**

The Ankh Morpork guards need your help there has been a flood in the city and some outposts can no longer be reached from a specific starting point your task is to report those.  
You will be given the map of the outposts, as a graph from the console with a given start node, print all the unreachable nodes in order by their number ascending.

## Input

* The input will come from the console on multiple lines:
  + first line **N** single integer – the number of nodes
  + second line **M** single integer –the number of edges
  + **M** lines describing the edges connections in the format: **{from} {to}**
  + **S** single integer – the start node

## Output

* The output is a sequence of integers that represents the unreachable outposts.

## Constraints

* The input graph will not contain more than 30 nodes or edges.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 6  5  1 2  2 4  3 4  6 5  6 4  1 | 3 5 6 |
| 4  4  1 4  2 3  3 4  4 1  3 | 2 |

# “Once you had a good excuse, you opened the door to bad excuses.” ― Terry Pratchett, [Thud!](https://www.goodreads.com/work/quotes/819104)