# **Problem C: Neighbors**

### **Description**

There is a graph G with the vertex set V and edge set E . A neighbor of a vertex  ${\bf v}$  is a vertex that is connected to  ${\bf v}$  by an edge.

For each vertex  $\mathbf{v}$  in V, print all neighbors of  $\mathbf{v}$ .

#### Input

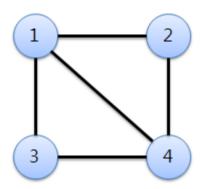
Your program is to read from standard input. In the first line of input you are given two numbers, the number of vertices N and the number of edges M, each separated by a space ( $1 \le N$ ,  $M \le 1000$ ). On each of the following lines, an edge is given by its two adjacent vertices' labels, each separated by a space.

#### **Output**

Your program is to write to standard output. In vth line, print all the neighbors of v in the increasing order of their labels, each separated by a space.

## Sample

Input	Output	
4 5	2 3 4	
12	1 4	
3 4	1 4	
13	123	
4 1		
3 4		



In sample input, the neighbors of 1 are 2, 3, and 4 of 2 are 1 and 4 of 3 are 1 and 4 of 4 are 1, 2, and 4