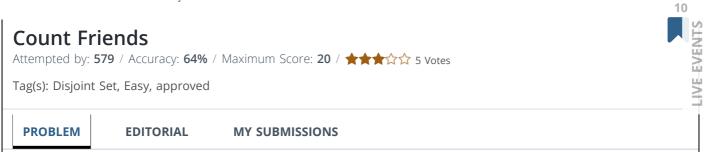


All Tracks > Data Structures > Disjoint Data Structures > > Problem



There are N students and M relationships of the form u v, which means that student u and student v are friends. If two students are not friends directly but they have a mutual friend, then they too become friends. Your task is to count the number of friends of the  $i^{th}$  student where  $1 \leq i \leq N$ .

## Input:

The first line consists of two integers N and M denoting the number of students and the number of relationships respectively.

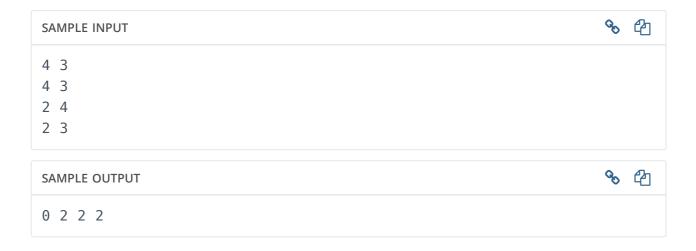
The next M lines consists of two integers u and v denoting that student u and student v are friends. u and v can never be equal and relationships are not repeated.

#### **Output:**

Print N space separated integers which tells us the number of friends of the  $i^{th}$  student.

### **Constraints:**

- $1 < N < 10^5$
- $1 \le M \le 10^5$
- $1 \le u, v \le N$



#### **Explanation**

For the sample test case -

Student 1 has no friends.

Student 2 is friends with student 3 and 4.

Student 3 is friends with student 2 and 4.

Student 4 is friends with student 2 and 3.

**Time Limit:** 1.0 sec(s) for each input file.

## **CODE EDITOR**



# PROGRAMMERS WHO SOLVED THIS PROBLEM ALSO SOLVED

Teacher's Dilemma

City And Flood

City And Fireman Vince...

Attempted By: 433 / Accuracy: 89

Attempted By: 2402 / Accuracy: 79

Attempted By: 1122 / Accuracy: 87

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