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10

LIVE EVENTS

Count Friends

Attempted by: 579 / Accuracy: 64% / Maximum Score: 20 / ★★★★★ 5 Votes

Tag(s): Disjoint Set, Easy, approved

PROBLEM

EDITORIAL

MY SUBMISSIONS

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:

$$1 \leq N \leq 10^5$$

$$1 \leq M \leq 10^5$$

$$1 \leq u, v \leq N$$

SAMPLE INPUT

```
4 3
4 3
2 4
2 3
```

SAMPLE OUTPUT

```
0 2 2 2
```

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.

Memory Limit: 256 MB**Source Limit:** 1024 KB**Marking Scheme:** Marks are awarded when all the testcases pass.**Allowed Languages:** C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Scala 2.11.8, Swift, Visual Basic

10

CODE EDITOR

Enter your code or [Upload your code](#) as file.

Save

C (gcc 4.8.2)



```
1 #include <stdio.h>
2
3 int main()
4 {
5     printf("Hello World!\n");
6     return 0;
7 }
8
```

1:1

☒ Provide custom input

COMPILE & TEST

SUBMIT

Press Ctrl-space for autocomplete suggestions.

POWERED BY code table

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