B - Counting Roads

Editorial

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Time Limit: 2 sec / Memory Limit: 256 MB

Score : 200 points

Problem Statement

There are N cities and M roads. The i-th road $(1 \leq i \leq M)$ connects two cities a_i and b_i $(1 \leq a_i, b_i \leq N)$ bidirectionally. There may be more than one road that connects the same pair of two cities. For each city, how many roads are connected to the city?

Constraints

- $2 \leq N, M \leq 50$
- $1 \leq a_i, b_i \leq N$
- $a_i = b_i$
- All input values are integers.

Input

Input is given from Standard Input in the following format:

N M
a_1 b_1
:
a_M b_M

Output

Print the answer in N lines. In the i-th line $(1 \leq i \leq N)$, print the number of roads connected to city i.

Sample Input 1

Copy

```
4 3
1 2
2 3
1 4
```

Copy

Sample Output 1 Copy

```
2
2
1
1
```

- City 1 is connected to the 1-st and 3-rd roads.
- City 2 is connected to the 1-st and 2-nd roads.
- City 3 is connected to the 2-nd road.
- City 4 is connected to the 3-rd road.

Sample Input 2 Copy

```
2 5
1 2
2 1
1 2
2 1
1 2
```

Sample Output 2 Copy

```
5
5
```

Sample Input 3 Copy

```
8 8
1 2
3 4
1 5
2 8
3 7
5 2
4 1
6 8
```

Sample Output 3 Copy

Copy

```
3
3
2
2
2
1
1
2
```