Problem B. Counting Roads

Time limit 2000 ms
Mem limit 262144 kB

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

- $2 \leq N, M \leq 50$
- $1 \leq a_i, b_i \leq N$
- $a_i \neq b_i$
- 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 1

Input	Output
4 3 1 2 2 3 1 4	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 2

Input	Output
2 5 1 2 2 1 1 2 2 1 1 2	5 5

Sample 3

Input	Output
8 8 1 2 3 4 1 5 2 8 3 7 5 2 4 1 6 8	3 3 2 2 2 1 1 2