

Degree

[Problem](#)

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You are given a graph with N nodes and M bidirectional (undirected) edges. You have to find the degree of each node in this graph and print it.

Note: the degree of a node is the number of edges coming to it or going out from it. If the edges are undirected or bidirectional, we think of it as a single edge.

Input Format

First line N and M , the number of nodes in the graph and the number of edges respectively.

M lines, each containing u and v , meaning there is an undirected edge connecting node u and node v .

Output Format

Print N integers, the degree of node i

Constraints

$$1 \leq N \leq 10^4$$

$$1 \leq M \leq \frac{N \times (N-1)}{2}$$

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

Sample Input 1

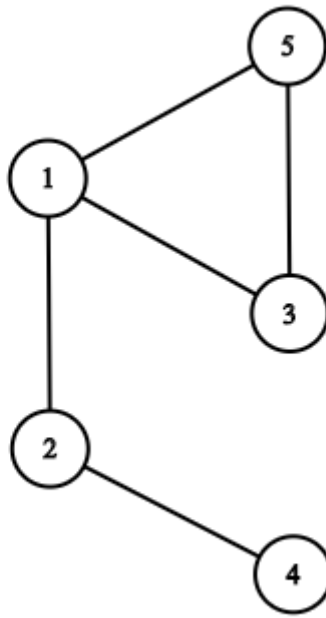
```
5 5
1 2
1 5
4 2
3 5
1 3
```

Sample Output 1

```
3 2 2 1 2
```

Explanation 1

This is the graph given in the sample 1.



Sample Input 2

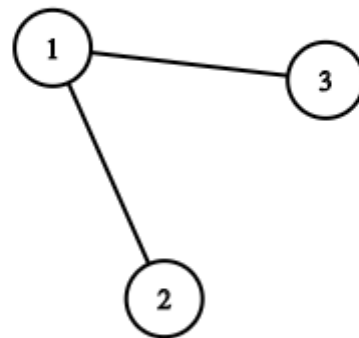
```
3 2
1 2
3 1
```

Sample Output 2

```
2 1 1
```

Explanation 2

This is the graph given in the sample 2, since node 1 has 2 neighbours degree of node 1 is 2. Since node 2 and node 3 has only one neighbour, their degree is 1.



C++ (GCC 9.2.0)

Bright

Memory Limit (kB) : 256000 Time Limit (s) : 1

```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4 #define int long long
5
6 int32_t main(){
7     int m, n;
8     cin >> n >> m;
9     vector<int> adj[n + 1];
10    for(int i = 0; i < m; i++){
11        int x, y;
12        cin >> x >> y;
13        if (x <=n && y <=n){
14            adj[x].push_back(y);
15            adj[y].push_back(x);
16        }
17    }
18    for(int i = 1; i <=n; i++)
19        cout << adj[i].size() << " ";
20 }
```

```
21  }
```

 Upload File

☐ Test against custom test case

Run Code

Submit

✓ [Sample Test Case 0](#)

✓ [Sample Test Case 1](#)

Accepted

Input(stdin)

| | | |
|---|---|---|
| 1 | 5 | 5 |
| 2 | 1 | 2 |
| 3 | 1 | 5 |
| 4 | 4 | 2 |
| 5 | 3 | 5 |
| 6 | 1 | 3 |

Output(stdin)

| | | | | | |
|---|---|---|---|---|---|
| 1 | 3 | 2 | 2 | 1 | 2 |
|---|---|---|---|---|---|

Expected Output

| | | | | | |
|---|---|---|---|---|---|
| 1 | 3 | 2 | 2 | 1 | 2 |
|---|---|---|---|---|---|