Know Your Level

HackerRank

Problem Statement

Zaman lives in a city of pizzas where every street has several pizza shops and everyone loves pizza there. Suppose there are **N** pizza shops in Zaman's area. All pizza shops have unique numbers written in the shop, the number of the first pizza shop in his city is from **0** to **10^5**. There are **E** roads between pizza shops, and these pizza shops form a undirected connected graph where you can divide them in levels where the level starts from **0**. Zaman lives in level **L**, now he wants to know which pizza shops are there in his level. Can you help him to get the desired pizza shops?

Note: If there are no pizza shops at level **L**, then print **-1**.

Input Format

- First line will contain two integers **N** and **E**, number of pizza shops and roads repectively.
- The next **E** lines will contain two integeres **A** and **B**, which means there is a road between A and B.
- The last line will contain **L**, the level where Zaman lives.

Constraints

1. 0 < **N** <= 10^5
2. 1 <= **E** <= 10^5
3. 0 <= **A, B, L** <= 10^5

Output Format

- Output the numbers written on the pizza shops that are in level **L** in **ascending order**.

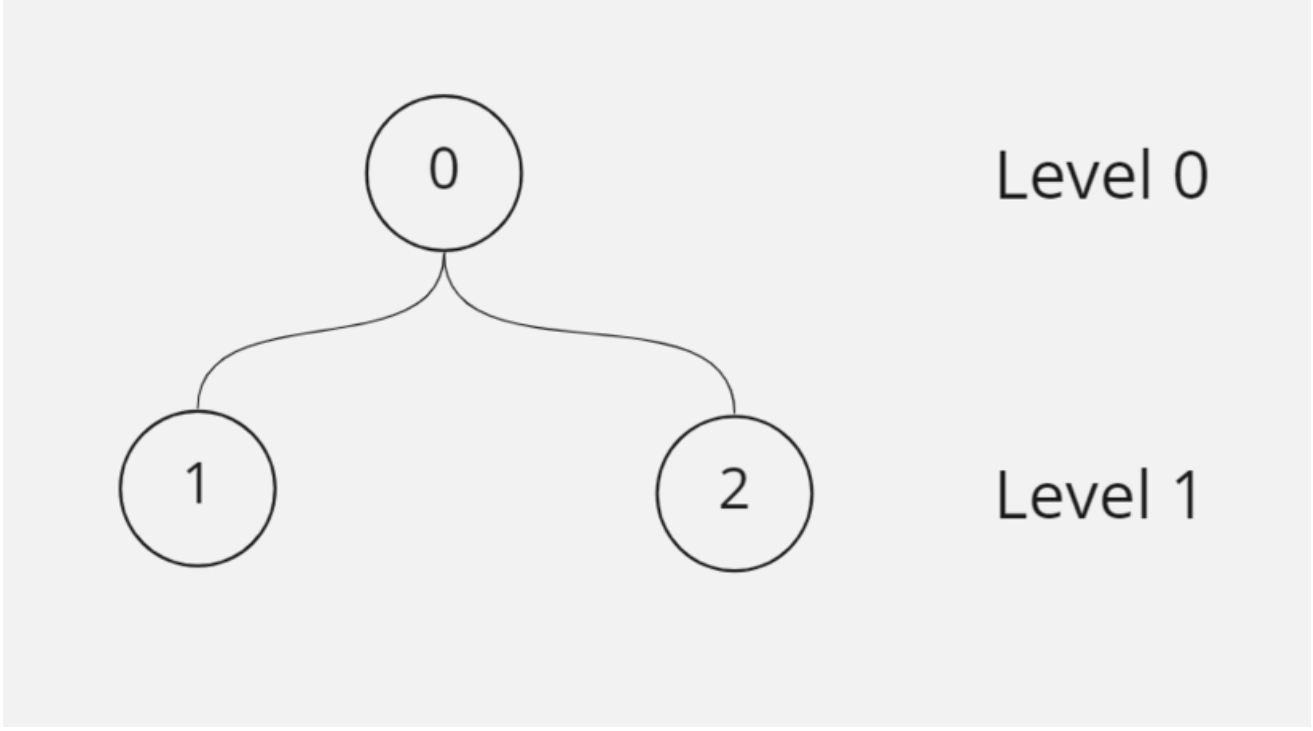
Sample Input 0

```
3 2
0 1
0 2
1
```

Sample Output 0

```
1 2
```

Explanation 0


0
1
2
Level 0
Level 1