

Missing Goldfish

Problem Statement:

Bessie lost her pet goldfish in her school! Her school is arranged in a series of classrooms and hallways, with N classrooms numbered 0 to $N-1$, and M hallways, each with a length of 10 meters. Hallways connect two classrooms in any direction. Bessie knows the arrangement of classrooms and hallways in her school, and the room where she lost her goldfish G . However, always being a perfectionist, she wants to compute the minimum distance that she will have to travel to reach her goldfish, starting from classroom 0.

Input Format:

Line 1: N M

Line 2: G , representing the number of the classroom with the goldfish

Line 3.. $M+2$: 2 numbers, A and B ($0 \leq A < B < N$), with A and B representing two classrooms directly connected by a hallway.

Example Input:

```
5 5
4
0 1
1 2
2 3
3 4
1 4
```

Flag Format:

mctf{m1s5INg_G0ldf1sH_**[ANSWER]**}

[ANSWER]: an integer representing the minimum distance

Example Flag:

mctf{m1s5INg_G0ldf1sH_20}

Answer Explanation:

Step 1: 0 -> 4, 10 total meters

Step 2: 1 -> 4, 20 total meters