I "Really" Wanna Be the Guy

There is a game called "I Wanna Be the Guy", consisting of n levels. Little X and his friend Little Y are addicted to the game. Each of them wants to pass the whole game.

Little X can pass only p levels of the game. And Little Y can pass only q levels of the game. You are given the indices of levels Little X can pass and the indices of levels Little Y can pass. Will Little X and Little Y pass the whole game, if they cooperate each other?

Input Format

The first line contains a single integer **n**.

The next line contains an integer **p** at first, then follows **p** distinct integers $a_1, a_2, ..., a_p$. These integers denote the indices of levels Little X can pass. The next line contains the levels Little Y can pass in the same format. It's assumed that levels are numbered from 1 to n.

Constraints

$1 \le n \le 100$

$0 \le p, q \le n$

$1 \le a_i \le n$

Output Format

If they can pass all the levels, print "I become the guy.". If it's impossible, print "Oh, my keyboard!" (without the quotes).

Sample Input 0

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

Sample Output 0

```
I become the guy.
```

Explanation 0

In the first sample, Little X can pass levels [1, 2, 3], and Little Y can pass level [2, 4], so they can pass all the levels both.

Sample Input 1

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

Sample Output 1

```
Oh, my keyboard!
```

Explanation 1

In the second sample, no one can pass level 4.

Contest ends in 3 hours

Submissions: 302
Max Score: 20
Difficulty: Easy

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Current Buffer (saved locally, editable) C++14

```
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

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