

A. I Wanna Be the Guy

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

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

The first line contains a single integer n ($1 \leq n \leq 100$).

The next line contains an integer p ($0 \leq p \leq n$) at first, then follows p distinct integers a_1, a_2, \dots, a_p ($1 \leq a_i \leq n$). 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 .

Output

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

Sample test(s)

input
4 3 1 2 3 2 2 4
output
I become the guy.
input
4 3 1 2 3 2 2 3
output
Oh, my keyboard!

Note

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.

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

Codeforces Round #268 (Div. 2)

Finished

Practice



→ Submit?

Language: GNU C++ 4.7

Choose file: 未选择文件。

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

→ Problem tags

[greedy](#) [implementation](#)

No tag edit access