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PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

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 ($1 \le n \le 100$).

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

Examples



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

→ Virtual participation

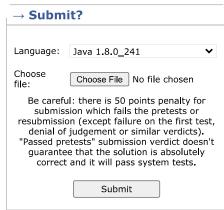
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Start virtual contest

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Clone Contest



ightarrow Last submissions		
Submission	Time	Verdict
133289492	Oct/28/2021 00:02	Accepted



→ Contest materials

AnnouncementTutorial (en)

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