The Game

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	1024 megabytes

After participating in the China Convex Polygon Competition Final (CCPC Final), Kevin and Little Cyan Fish decided to play a new game.

Kevin has an integer sequence $a_1, a_2, \ldots, a_{2n}$ of length $2n$. He and Little Cyan Fish will take turns to remove an element of the sequence, the remaining elements will be concatenated to form a new sequence. Kevin goes first. The game ends when there is only one element in the sequence. Kevin dislikes palindromes, therefore, if at any time during the process (including the initial sequence), the sequence is a palindrome, Little Cyan Fish wins. If the sequence has only one element left before being a palindrome, Kevin wins.

If Kevin and Little Cyan Fish both play optimally, who will be the winner?

A sequence $b_1, b_2, \ldots, b_m$ is palindrome if and only if for each $1 \leq i \leq m$, the condition $b_i = b_{m+1-i}$ is satisfied.

Input

There are multiple test cases in a single test file. The first line of the input contains a single integer T ($1 \leq T \leq 10^4$), the number of test cases.

For each test case, the first line of the input contains an integer n ($1 \leq n \leq 10^6$), and the second line contains $2n$ integers $a_1, a_2, \ldots, a_{2n}$ ($1 \leq a_i \leq 2n$), denoting the integer sequence.

It is guaranteed that the sum of n over all test cases does not exceed 10^6.

Output

For each test case, output a single line "`Kevin`" if the winner is Kevin, or "`Qingyu`" if the winner is Little Cyan Fish.

Example

standard input	standard output
3 3 1 1 4 5 1 4 2 1 2 3 4 4 1 2 2 3 2 1 1 4	Qingyu Kevin Qingyu