Problem A - Attack and Split

There are slimes live in a peace world. Sometimes they split: a slime with size x can split into two slimes of positive integral sizes y and z with $x = y + z$. Sometimes they attack each other, two slimes of sizes p and q will become $r = p \oplus q$, where $\oplus$ denotes an xor operation.

Given sizes of the slimes in this world, is it possible for them to disappear after several attacks and/or splits?

Input

The first line contains an integer T ($1 \leq T \leq 100$), indicating the number of test cases.

For each test case, the first line contains an integer n ($1 \leq n \leq 100$), indicating the number of slimes, followed by n positive integers $a_1, a_2, \cdots, a_n$ denoting the sizes of slimes. ($1 \leq a_i \leq 10^9$).

Output

For each test case, output `Yes` or `No` for answering the question.

Sample Input

```
3
1 1
2 9 17
3 12 15 19
```

Sample Output

```
No
Yes
Yes
```

Useless Note

When you split a slime with some upper bounds, you'll get a sublime.

If you reverse a slime toward some limit, it will smile.