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Perfect Square Cube Check

? Ask Doubt

Time-Limit: 1 sec

Score: 100.00/100

Difficulty :

Memory: 256 MB

Accepted Submissions: 100

Description

You are given an integer N. You have to tell whether the number is a perfect square/cube according to the given query. Do not use inbuilt sqrt() and cube() function. As sqrt(4) can be equal to 1.9999999 and int(1.999999). = 1. Due to precision issue do not use sqrt() if you are dealing with integers.

Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains two space-separated integers Q, N - Q=1 denotes that you have to check if N is a perfect square and Q=2 denotes that you have to check if N is a perfect cube.

Output Format

For each test case, print “YES” if the number is a perfect square/cube and “NO” if the number is not a perfect square/cube, according to the given query.

Constraints

$1 \leq T \leq 100$

$1 \leq N \leq 10^7$

Sample Input 1

Copy

```
4
1 64
2 64
2 9
1 5
```

Sample Output 1

Copy

```
YES
YES
NO
NO
```

C++14[GCC] ▾

Submit

```
1
```