# F. Is it a Perfect Square?

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

Vashkar Sir is teaching the students different problem-solving techniques. During the lecture, he introduced the topic of number theory.

While he was explaining, a curious student named Sahil stood up and asked,

"Sir, how do we know if a number is a perfect square?"

Vashkar Sir smiled and replied,

"That's your assignment — figure it out!"

Sahil, who is very dedicated and polite, became determined to solve the problem. He is eager to learn how to check efficiently whether a number is a perfect square.

Your task is to help Sahil determine whether a given number n is a perfect square or not. Print YES if it is, otherwise print NO.

#### Input

Each test contains multiple test cases. The first line contains a single integer t  $(1 \le t \le 10^4)$  — the number of test cases.

The description of the test cases follows: Each test case contains a single integer n ( $1 \le n \le 10^9$ ).

### Output

For each test case:

- Otherwise, print on a newline any of the following: no, No, nO, NO

## Example

standard input	standard output
5	YES
4	NO
7	NO
8	YES
16	YES
25	

#### Note

In the first test case: 4 is a perfect square number.

$$2 \times 2 = 4$$

In the 2nd and 3rd test case: 7 and 8 are not a perfect square number. In the 4'th and 5'th test case: 16 and 25 are a perfect square number.

$$4 \times 4 = 16$$

$$5 \times 5 = 25$$