Smart Number

A number is called **Smart number** if it has an odd number of factors. Given some numbers, you have to tell whether they are **Smart numbers** or not.

Note: You can modify only *one* line in the given code at the most and you cannot add any new lines.

To restore the original code in the editor, create a new buffer by clicking on the top left icon in the editor.

Input Format

The first line of the input contains t, the number of test cases. The next t lines contain one integer each.

Constraints

$1 \leq t \leq 1000$
$1 \leq n_i \leq 10000$, where n_i is the i^{th} integer.

Output Format

Output should consist of t lines. In the i^{th} line print *YES* if the i^{th} integer has an odd number of factors, else print *NO*.

Sample Input

```
4
1
2
7
169
```

Sample Output

```
YES
NO
NO
YES
```

Explanation

The factors of 1 are just 1 itself.So the answer is YES. The factors of 2 are 1 and 2.It has even number of factors.The answer is NO. The factors of 7 are 1 and 7.It has even number of factors.The answer is NO. The factors of 169 are 1,13 and 169.It has odd number of factors.The answer is YES.