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

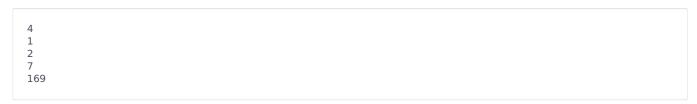
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1 \leq t \leq 1000
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 $1 \leq n_i \leq 10000$, where n_i is the i^{th} integer.

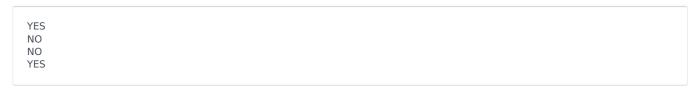
Output Format

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



Sample Output



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.