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PRIONPRI - Prime or not Prime!

#simple-math (/problems/tag/simple-math) #basics (/problems/tag/basics)

In this problem, your task is to determine if a given number is a prime number or a composite number.

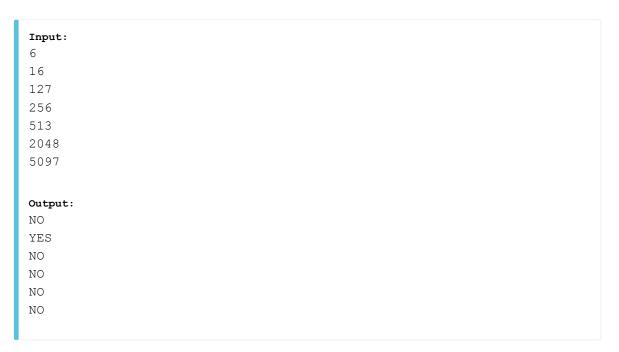
Input

The first line of the input contains an integer **T** denoting the number of test cases. The description of **T**test cases follows. Each test case consists of a single line containing a single integer $\langle n \rangle$ ($2 \le n \le 10^9$).

Output

For each test case, your program should output a single line containing « YES » (without quotes and spaces) if the given integer is prime or « NO » (without quotes and spaces) if the given integer is a composite number.

Example



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Added by: mbk_live (/users/mbk_live)

Date: 2019-01-08

Time limit: 1s

Source limit: 50000B Memory limit: 1536MB

Cluster: Cube (Intel G860) (/clusters/)

C-CLANG C C++ 4.3.2 CPP

CPP14 CPP14-CLANG C99

Languages: JAVA PYTHON PYTHON3

SWIFT

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