**Twisted Prime Number**

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A number is said to be twisted prime if it is a prime number and reverse of the number is also a prime number.

**Input:**  
The first line of input contains an integer **T**denoting the number of test cases. The first and last line of each test case consists of an integer **n**.

**Output:**  
Print the answer in "Yes" or "No".

**Constraints:**  
1<=T<=100  
2<=n<=100000

**Example:  
Input:**  
2  
97  
43

**Output:**  
Yes  
No

\*\*For More Examples Use Expected Output\*\*

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<http://practice.geeksforgeeks.org/problems/twisted-prime-number/0>

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\*/

package javaapplication252;

import java.util.\*;

import java.lang.\*;

import java.io.\*;

/\*\*

\*

\* @author Administrador

\*/

public class JavaApplication252 {

/\*\*

\* @param args the command line arguments

\*/

static boolean esPrimo(int n) {

if(n < 2)return false;

if(n == 2) return true;

if(n %2 ==0) return false;

int sqr = (int)Math.sqrt(n);

for(int i =3; i<=sqr; i+=2) {

if(n %i==0) return false;

}

return true;

}

public static void main(String[] args) throws IOException {

// TODO code application logic here

BufferedReader br = new BufferedReader(new InputStreamReader(System.in)); //

int t = Integer.parseInt(br.readLine());

while(t-- > 0) {

int n = Integer.parseInt(br.readLine().trim());

String ns = String.valueOf(n);

StringBuilder rev = new StringBuilder();

// append a string into StringBuilder input1

rev.append(ns);

// reverse StringBuilder input1

rev = rev.reverse();

if(esPrimo(n) && esPrimo(Integer.parseInt( rev.toString()))) {

System.out.println("Yes");

}else{

System.out.println("No");

}

}

}

}