We all may know about *prime number*. A prime number (or a prime) is a natural number greater than 1 that cannot be formed by multiplying two smaller natural numbers.

Pritha is little girl who loves to do math. One day she was playing with numbers and find out that some numbers are only consists of prime digits. That means all the digit of that number is prime.

Now she wants write a program that can detect such number but as she does not know anything about programming , she comes to her friend Tarique who is a great programmer for help.

Tarique is so busy nowadays in developing his own online contest judge. So he told you to write a program that detect *DIGIT PRIME* number.

Input:

First input will be *Q (1 <= Q <= 1000)* That means you have to run this program for **Q** queries. For each queries input will consist of a number N. **N** is an integers number less than 10^{14} and greater than **0**. You can assume that no operation overflows a 64-bit integer.

Output:

For each queries you have to determine whether N is a DIGIT PRIME or Not. If it is DIGIT PRIME than you have to print “YES” (without the quote) or you have to prime “NO” (without the quote).

Sample Input:

```
3
1234
777
2327
```

Sample Output:

```
NO
YES
```

Problem Setter: Atikur Rahman Anik Alternative Solution: Tarique Nasrullah