B	Prime Summation	Time limit: 1 sec

This problem gives you a positive integer number which is less than or equal to **100000 (10^5)**. You have to find out the following things for the number:

1. Is the number prime number? If it is a prime number, then print **YES**.
2. If the number is not a prime number, then can we express the number as summation of unique prime numbers? If it is possible, then print **YES**. Here unique means, you can use any prime number only for one time.

If above two conditions fail for any integer number, then print **NO**. For more clarification please see the input, output section and their explanations.

Input

At first you are given an integer **T (T<=100)**, which is the number of test cases. For each case you will be given a positive integer **X** which is less than or equal **100000**.

Output

For every test case, print only **YES** or **NO**.

Sample I/O

Input	Output
3 7 6 10	YES NO YES

Explanation

Case – 1 Explanation: 7 is a prime number.

Case – 2 Explanation: 6 is not a prime number. 6 can be expressed as 6 = 3 + 3 or 6 = 2 + 2 + 2. But you can't use any prime number more than 1 time. Also there is no way to express 6 as two or three unique prime numbers summation.

Case – 3 Explanation: 10 is not prime number but 10 can be expressed as 10 = 3 + 7 or 10 = 2 + 3 + 5. In this two expressions, every prime number is used only for one time.