Relationship of ISRO with prime numbers

As we know that this universe is made of many galaxies. Each galaxy is identified by a number called identification number. So ISRO, being the best space agency in the world, wants to send their spaceships in the galaxies whose identification number is a prime number. Your job is to help ISRO which galaxy to send their spaceships.

Input:-

- The first line of the input contains a single integer T denoting the number of testcases. The description of T test cases follows.
- The first and only line of each test case contains one integer N which is the identification number of a galaxy.

Output:-

- For each test case, print "YES" (without quotes) if ISRO should send their spaceships to that galaxy and "NO" (without quotes) if they should not send.

Constraints:-

- $1 <= T <= 25000$
- $1 <= N <= 1000000000$

Sample:-

- **Input:-**

  3

  2

  14

  17

- **Output:-**

  YES

  NO

  YES

Time limit:- 1.00 sec

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