

# 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:-

- $1 \leq T \leq 25000$
- $1 \leq N \leq 1000000000$

## Sample:-

- Input:-

3

2

14

17

- Output:-

YES

NO

YES

Time limit:- 1.00 sec

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