(/users/sahapriyabrata)

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Chef and Semi-Primes

Problem Code: CHEFPRMS



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(http://www.codechef.com/download/translated/S19QLTST/bengali/CHEFPRMS.pdf) as well.

Chef likes prime numbers. However, there is one thing he loves even more. Of course, it's semi-primes! A *semi-prime number* is an integer which can be expressed as a product of two distinct primes. For example, $15=3\cdot 5$ is a semi-prime number, but $1,9=3\cdot 3$ and 5 are not.

Chef is wondering how to check if an integer can be expressed as a sum of two (not necessarily distinct) semi-primes. Help Chef with this tough task!

Input

- ullet The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.
- ullet The first and only line of each test case contains a single integer N.

Output

For each test case, print a single line containing the string "YES" if it is possible to express N as a sum of two semi-primes or "N0" otherwise.

Constraints

- $1 \le T \le 200$
- $1 \le N \le 200$

Example Input

3			
30			
45			
62			

Example Output

ES
ES
0

Explanation

Example case 2: 45 can be expressed as $35 + 10 = (5 \cdot 7) + (2 \cdot 5)$.

Example case 3: 62 cannot be expressed as a sum of two semi-primes.

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Tags: mgch (/tags/problems/mgch)

Date Added: 12-10-2018

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.6, PYPY, CS2, PAS fpc, PAS

gpc, RUBY, PHP, GO, NODEJS, HASK, rust, SCALA, swift, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM quile, JS, ERL, TCL, kotlin, PERL6,

TEXT, SCM chicken, PYP3, CLOJ, COB, FS

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<u>CodeChef (http://www.codechef.com)</u> - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

Practice Section (https://www.codechef.com/problems/easy) - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

<u>Compete (https://www.codechef.com/problems/easy)</u> - Monthly Programming Contests and Cook-offs

Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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