

Session 100%

Assignment 1/4

Homework 0/2

Help Requests

Feedback

Question

Hints

Help Requests

Submissions


Discussions

Current Possible Score: 100

Your Score: 0

Max Score: 100

Q2. Is It Perfect? </> Unsolved



Stuck somewhere?
Ask for help from a TA and get it resolved.

Get help from TA.

Problem Description

You are given **N** positive integers.
For each given integer **A**, you have to tell whether it is a **perfect number** or not.
Perfect number is a positive integer which is equal to the sum of its proper positive divisors.

Problem Constraints

1 <= **N** <= 10
1 <= **A** <= 10⁶

Input Format

First line of the input contains a single integer **N**.
Each of the next **N** lines contains a single integer **A**.

Output Format

In a separate line, print **YES** if a given integer is perfect, else print **NO**.

Example Input

Input 1:
2
4
6
Input 2:
1
3

Example Output

Output 1:
NO
YES
Output 2:
NO

Example Explanation

Explanation 1:
For A = 4, the answer is "NO" as sum of its proper divisors = 1 + 2 = 3, is not equal to 4.
For A = 6, the answer is "YES" as sum of its proper divisors = 1 + 2 + 3 = 6, is equal to 6.
Explanation 2:
For A = 3, the answer is "NO" as sum of its proper divisors = 1, is not equal to 3.

Java7 (Open-Jdk-1.7.0)

```
1 import java.lang.*;
2 import java.util.*;
3
4 public class Main {
5     public static void main(String[] args) {
6         // YOUR CODE GOES HERE
7         // Please take input and print output to standard input/output (stdin/stdout)
8         // DO NOT USE ARGUMENTS FOR INPUTS
9         // E.g. 'Scanner' for input & 'System.out' for output
10    }
11 }
12 }
```

Test Output

Test Test With Custom Input

Submit