COMPETE

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Contest Code: LTIME105D Problem Code: NIBBLE



In computing, the collection of four bits is called a nibble.

Chef defines a program as:

- Good, if it takes exactly X nibbles of memory, where X is a positive integer.
- · Not Good, otherwise.

Given a program which takes N bits of memory, determine whether it is  $\operatorname{Good}$  or  $\operatorname{Not}$   $\operatorname{Good}$ .

**PRACTICE** 

#### **Input Format**

- ullet First line will contain T, number of test cases. Then the test cases follow.
- The first and only line of each test case contains a single integer N, the number of bits taken by the
  program.

#### **Output Format**

For each test case, output Good or Not Good in a single line. You may print each character of Good or Not Good in uppercase or lowercase (for example, GoOd, GOOD, good will be considered identical).

### Constraints

- $\bullet \quad 1 \leq T \leq 1000$
- $1 \le N \le 1000$

## Subtasks

Subtask #1 (100 points): original constraints

# Sample Input 1 🖆

4

8

17

52

2

# Sample Output 1 🖆

Good

Not Good

Good

Not Good

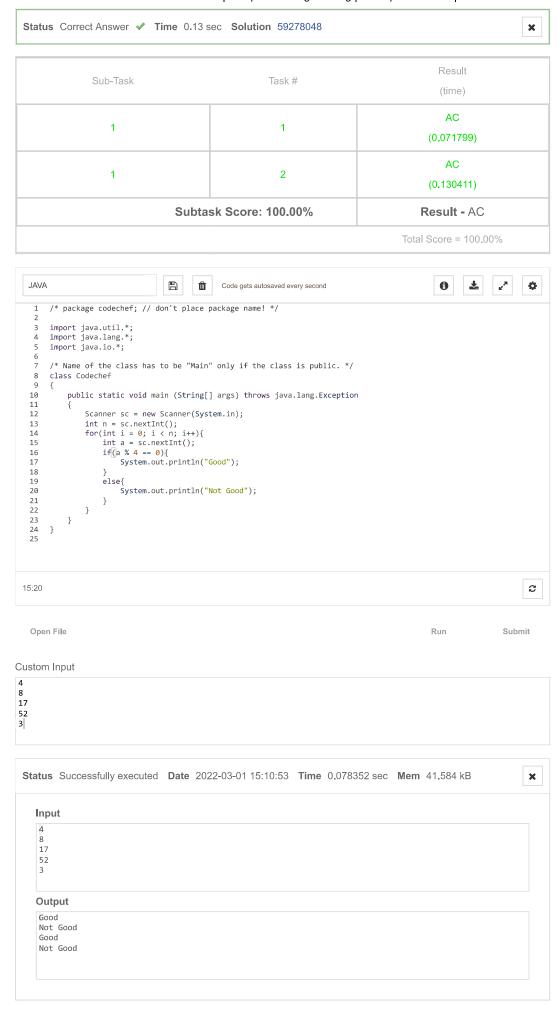
# Explanation

**Test case 1:** The program requires 8 bits of memory. This is equivalent to  $\frac{8}{4}=2$  nibbles. Since 2 is an integer, this program is good.

**Test case 2:** The program requires 17 bits of memory. This is equivalent to  $\frac{17}{4} = 4.25$  nibbles. Since 4.25 is not an integer, this program is not good.

**Test case 3:** The program requires 52 bits of memory. This is equivalent to  $\frac{52}{4} = 13$  nibbles. Since 13 is an integer, this program is good.

**Test case 4**: The program requires 3 bits of memory. This is equivalent to  $\frac{3}{4} = 0.75$  nibbles. Since 0.75 is not an integer, this program is not good.



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