Color it

Assignment 1

Computer Programming Due date: 10 September, 2018

Description: There are n poles in a row numbered 1 to N. Each pole can be colored in two colors - Red and Black. Initially each pole is colored Black. Once you colour a pole, its previous color is immaterial. In an operation, you color a pole in such a way that the new color is different from the previous color i.e. Red to Black and Black to Red.

Steps -

- 1) Operate on poles which are multiple of 1
- 2) Operate on poles which are multiple of 2
- 3) Operate on poles which are multiple of 3
- 4)

.

This process is continued N times.

Find the number of poles which are colored red after all these operations.

Input

First Line contains an Integer T denoting the number of test cases.

Each of the following T lines contains an integer N.

Output

Print Number of poles which are colored red after all operations for each test case.

Constraints

T (Number of test cases) is an integer between 1 and 10⁶ (Both Inclusive)

N is an integer between 1 and 10^9 (Both Inclusive).

Sample Test Case

Input	Output
2	2
7	10
104	