**Number of divisors**

[maths](http://www.practice.geeksforgeeks.org/tag-page.php?tag=maths&isCmp=0)

Two friends are playing a game. One gives an integer N  to other and asks: What is the number of divisors of N that are divisible by 3? The task is to help the other friend in finding the number of divisors.

**Input:**  
The first line of input contains an integer T denoting the number of test cases.Then T test cases follow .Each test case consist of an integer N.  
  
**Output:**  
For each test case in a new line print the  number of divisors.  
  
**Constraints:**

1 ≤ T ≤ 50

1 ≤ N ≤ 100000

**Example:**

**Input:**

2

6

10

**Output:**

2

0

**Explanation:**

6 has three divisors 1, 3 and 6 out of which two are divisible by 3.  
10 has four divisors 1,2,5 and 10 none of which is divisible by 3

\*\*For More Examples Use Expected Output\*\*

Contributor: karan kumar

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=1239>

#include <iostream>

#include <stdio.h>

#include <vector>

#include <algorithm>

using namespace std;

int main() {

int t;

scanf("%d", &t);

while(t--) {

int n;

scanf("%d", &n);

int cont =0;

for(int i =1; i<=n; i++) {

if(n%i==0 && i%3==0) {

cont ++;

}

}

printf("%d\n", cont);

}

// system("pause");

return 0;

}