# **Sherlock and Divisors**



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Watson gives an integer N to Sherlock and asks him: What is the number of divisors of N that are divisible by 2?

#### **Input Format**

First line contains T, the number of testcases. This is followed by T lines each containing an integer N.

#### **Output Format**

For each testcase, print the required answer in one line.

#### **Constraints**

 $1 \leq T \leq 100$ 

 $1 \le N \le 10^9$ 

## **Sample Input**

2 9 8

## **Sample Output**

0 3

## **Explanation**

9 has three divisors 1, 3 and 9 none of which is divisible by 2.

8 has four divisors 1,2,4 and 8, out of which three are divisible by 2.