Sherlock and Divisors



Watson gives an integer N to Sherlock and asks him: What is the number of divisors of N that are divisible by $\frac{1}{2}$?

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

 $1 \le T \le 100$

 $1 \le N \le 10^9$

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.