## Problem 5

A natural number k is divisor of another natural number if K completely divides N , means $\mathrm{N} \% \mathrm{k}=$ 0 . For example 6 has 4 positive divisors 1, 2, 3, and 6 . Now given a natural number N you have to find number of its positive divisors.

## Input

First line contains $T$ the number of test cases. Each of next $T$ lines contain one integer $N$.
$1<=N<=10^{\wedge} 9$

## Output

For each test case print the answer in a new line.

## Example

Input:
2
6
7

Output:
4
2

