## Number of divisors

In a class the teacher gave all the acm icpc aspirants a challenge on number theory.They could not solve it so they need your help. Help the students to solve this task.

The task that you will be given a number N. You have to calculate the number of positive integral divisors of that number.
(1 and $N$ are considered to be the divisors of $N$ )

## Input

There are $T$ test cases. $(1 \leq T \leq 102)$.
First you will be given the number T . then T numbers follow.
(numbers are space separated)
next line contains $T$ numbers $N\left(1 \leq N \leq 10^{\wedge} 18\right)$.

## Output

In each line print the number of divisors of a number N .

## Example

## Input:

3
624100
Output:
4
8
9

