Find Digits

Problem Statement

You are given an integer *N*. Find the digits in this number that exactly divide *N*(division that leaves 0 as remainder) and display their count. For *N* = 24, there are 2 digits - 2 & 4. Both of these digits exactly divide 24. So our answer is 2.

Note

- If the same number is repeated twice at different positions, it should be counted twice, e.g., For *N*=122, 2 divides 122 exactly and occurs at ones' and tens' position. So it should be counted twice. So for this case, our answer is 3.
- Division by 0 is undefined.

Input Format

The first line contains T (number of test cases) followed by T lines (each containing an integer N).

Constraints
1 <=T <= 15
0 < N < 10^{10}

Output Format

For each test case, display the count of digits in *N* that exactly divide *N* in a separate line.

Sample Input

```
2
12
1012
```

Sample Output

```
2
3
```

Explanation

1. 2 digits in the number 12 divide the number exactly. Digits at tens' place, *1*, divides 12 exactly in 12 parts, and digit at ones' place, *2* divides 12 equally in 6 parts.
2. 1 divides 1012 at two places and 2 divides it at one place. Divide by 0 is an undefined behaviour and it will not be counted.

This challenge was a part of Pragyan 12