

An integer d is a *divisor* of an integer n if the remainder of $n \div d = 0$.

Given an integer, for each digit that makes up the integer determine whether it is a divisor. Count the number of divisors occurring within the integer.

Example

$n = 124$

Check whether **1**, **2** and **4** are divisors of **124**. All 3 numbers divide evenly into **124** so return **3**.

$n = 111$

Check whether **1**, **1**, and **1** are divisors of **111**. All 3 numbers divide evenly into **111** so return **3**.

$n = 10$

Check whether **1** and **0** are divisors of **10**. **1** is, but **0** is not. Return **1**.

Function Description

Complete the *findDigits* function in the editor below.

findDigits has the following parameter(s):

- *int n*: the value to analyze

Returns

- *int*: the number of digits in n that are divisors of n

Input Format

The first line is an integer, t , the number of test cases.
The t subsequent lines each contain an integer, n .

Constraints

$$1 \leq t \leq 15$$
$$0 < n < 10^9$$

Sample Input

```
2
12
1012
```

Sample Output

```
2
```

Explanation

The number **12** is broken into two digits, **1** and **2**. When **12** is divided by either of those two digits, the remainder is **0** so they are both divisors.

The number **1012** is broken into four digits, **1**, **0**, **1**, and **2**. **1012** is evenly divisible by its digits **1**, **1**, and **2**, but it is *not* divisible by **0** as division by zero is undefined.