Find Digits *



X

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Topics

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.

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, \boldsymbol{t} , the number of test cases.

The ${m t}$ subsequent lines each contain an integer, ${m n}$.

Constraints

 $1 \leq t \leq 15$

 $0< n<10^9$

Sample Input

2

12

1012

Sample Output

2

3

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.

```
Change Theme Language Python 3
                                                                                                            ₩
      4
          import os
      5
          import random
      6
          import re
          import sys
      9
          # Complete the 'findDigits' function below.
     10
     11
          # The function is expected to return an INTEGER.
     12
     13
          # The function accepts INTEGER n as parameter.
     14
     15
     16
          def findDigits(n):
     17
              # Write your code here
              count = 0
     18
     19
              s = str(n)
              for i in s:
     20
                  i = int(i)
     21
                  if i == 0:
     22
                      continue
     23
                  if n % i == 0:
     24
                      count += 1
     25
     26
              return count
     27
          if __name__ == '__main__':
     28
              fptr = open(os.environ['OUTPUT_PATH'], 'w')
     29
     30
              t = int(input().strip())
     31
     32
     33
              for t_itr in range(t):
     34
                  n = int(input().strip())
     35
     36
                  result = findDigits(n)
     37
                                                                                                        Line: 26 Col: 17
EMACS
                                                                                                    Run Code
                                                                                                               Submit Code
 Test against custom input
 You have earned 25.00 points!
 You are now 1214.8 points away from the 6th star for your problem solving badge.
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 10%
  Congratulations
```

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