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Count Digits 8

Problem

Submissions

Leaderboard

An integer i , is a divisor of an integer j . More information about [Divisor](#). For each digit in an integer decide if it is a divisor of that integer or not and then print the count of divisors.

Example

$j = 36$

Check whether **3** and **6** are divisors of 36. 3 and 6 divide evenly into **36** so return **2**.

$j = 20$

Check whether **2** and **0** are divisors of **20**. 2 is, but 0 is not, so return **1**.

Function Description

Complete the countDigits function in the editor below.

countDigits has the following parameter(s):

int j: the value to analyze

Return

int: the number of digits in j that are divisors of j.

Input Format

The first line is an integer, t , the number of test cases.

The t subsequent lines each contain an integer, i .

```
2 36 20
```

Constraints

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

Output Format

```
2 1
```

Sample Input 0

```
2
36
20
```

Sample Output 0

```
2
1
```

Contest ends in 3 minutes

Submissions: 202

Max Score: 10

Difficulty: Medium

Rate This Challenge:

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```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  #
10 # Complete the 'countDigits' function below.
11 #
12 # The function is expected to return an INTEGER.
13 # The function accepts INTEGER j as parameter.
14 #
15
16 def countDigits(j):
17     # Write your code here
18
19 if __name__ == '__main__':
20     fptr = open(os.environ['OUTPUT_PATH'], 'w')
21
22     t = int(input().strip())
23
24     for t_itr in range(t):
25         j = int(input().strip())
26
27         result = countDigits(j)
28
29         fptr.write(str(result) + '\n')
30
31     fptr.close()
32
```

Line: 1 Col: 1

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