Problem 2520: Count the Digits That Divide a Number

Problem Information

Difficulty: Easy
Acceptance Rate: 85.85%
Paid Only: No
Tags: Math

Problem Description

Given an integer `num`, return _the number of digits in`num` that divide _`num`.

An integer `val` divides `nums` if `nums % val == 0`.

Example 1:

Input: num = 7 **Output:** 1 **Explanation:** 7 divides itself, hence the answer is 1.

Example 2:

Input: num = 121 **Output:** 2 **Explanation:** 121 is divisible by 1, but not 2. Since 1 occurs twice as a digit, we return 2.

Example 3:

Input: num = 1248 **Output:** 4 **Explanation:** 1248 is divisible by all of its digits, hence the answer is 4.

Constraints:

* `1 <= num <= 109` * `num` does not contain `0` as one of its digits.

Code Snippets

C++:

```
class Solution {
public:
int countDigits(int num) {

}
};
```

Java:

```
class Solution {
public int countDigits(int num) {

}
}
```

Python3:

```
class Solution:
def countDigits(self, num: int) -> int:
```