

Problem 1805: Number of Different Integers in a String

Problem Information

Difficulty: Easy

Acceptance Rate: 39.63%

Paid Only: No

Tags: Hash Table, String

Problem Description

You are given a string `word` that consists of digits and lowercase English letters.

You will replace every non-digit character with a space. For example, `"a123bc34d8ef34"` will become `" 123 34 8 34"`. Notice that you are left with some integers that are separated by at least one space: `"123"`, `"34"`, `"8"`, and `"34"`.

Return the number of **different** integers after performing the replacement operations on `word`.

Two integers are considered different if their decimal representations **without any leading zeros** are different.

Example 1:

Input: `word = "a_123_bc_34_d_8_ef_34"` **Output:** 3 **Explanation:** The three different integers are "123", "34", and "8". Notice that "34" is only counted once.

Example 2:

Input: `word = "leet_1234_code_234"` **Output:** 2

Example 3:

****Input:**** word = "a_1_b_01_c_001_" ****Output:**** 1 ****Explanation:**** The three integers "1", "01", and "001" all represent the same integer because the leading zeros are ignored when comparing their decimal values.

****Constraints:****

* `1 <= word.length <= 1000` * `word` consists of digits and lowercase English letters.

Code Snippets

C++:

```
class Solution {  
public:  
    int numDifferentIntegers(string word) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int numDifferentIntegers(String word) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def numDifferentIntegers(self, word: str) -> int:
```