

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:
```