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 = "a123bc34d8ef34"

**Output:** 3

**Explanation:** The three different integers are "123", "34", and "8". Notice that "34" is only counted once.

**Example 2:**

**Input:** word = "leet1234code234"

**Output:** 2

**Example 3:**

**Input:** word = "a1b01c001"

**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.