288. Unique Word Abbreviation Premium



The **abbreviation** of a word is a concatenation of its first letter, the number of characters between the first and last letter, and its last letter. If a word has only two characters, then it is an **abbreviation** of itself.

For example:

- dog --> d1g because there is one letter between the first letter 'd' and the last letter 'g'.
- internationalization —> i18n because there are 18 letters between the first letter 'i' and the last letter 'n'.
- it —> it because any word with only two characters is an **abbreviation** of itself.

Implement the ValidWordAbbr class:

are met (otherwise returns false):

 ValidWordAbbr(String[] dictionary) Initializes the object with a dictionary of words.

There is no word in dictionary whose abbreviation is equal to word's

boolean isUnique(string word) Returns true if either of the following conditions

- abbreviation.
- For any word in dictionary whose abbreviation is equal to word 's abbreviation, that word and word are the same.

["ValidWordAbbr", "isUnique", "isUnique", "isUnique", "isUnique",

Input

Example 1:

```
"isUnique"]
[[["deer", "door", "cake", "card"]], ["dear"], ["cart"], ["cane"],
["make"], ["cake"]]
Output
[null, false, true, false, true, true]
Explanation
ValidWordAbbr validWordAbbr = new ValidWordAbbr(["deer", "door",
"cake", "card"]);
validWordAbbr.isUnique("dear"); // return false, dictionary word
"deer" and word "dear" have the same abbreviation "d2r" but are
not the same.
validWordAbbr.isUnique("cart"); // return true, no words in the
dictionary have the abbreviation "c2t".
validWordAbbr.isUnique("cane"); // return false, dictionary word
"cake" and word "cane" have the same abbreviation "c2e" but are
not the same.
validWordAbbr.isUnique("make"); // return true, no words in the
dictionary have the abbreviation "m2e".
validWordAbbr.isUnique("cake"); // return true, because "cake" is
already in the dictionary and no other word in the dictionary has
"c2e" abbreviation.
```

• 1 <= dictionary.length <= 3 * 10⁴

Constraints:

- 1 <= dictionary[i].length <= 20
- dictionary[i] consists of lowercase English letters.
- 1 <= word.length <= 20
 word consists of lowercase English letters.
- At most 5000 calls will be made to isUnique.

Yes No

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