## 804 Unique Morse Code Words

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2018年5月5日 17:12
```

International Morse Code defines a standard encoding where each letter is mapped to a series of dots and dashes, as follows: "a" maps to ".-.", "b" maps to "-...", "c" maps to "-.-.", and

For convenience, the full table for the 26 letters of the English alphabet is given below

Now, given a list of words, each word can be written as a concatenation of the Morse code of each letter. For example, "cab" can be written as "-.--...", (which is the concatenation "-.-." + "-."). We'll call such a concatenation, the transformation of a word.

Return the number of different transformations among all words we have

### Example:

Input: words = ["gin", "zen", "gig", "msg"]
Output: 2

Explanation: The transformation of each word is:

"gin" -> "--...-. "zen" -> "--...-."

"gig" -> "--...--

"msa" -> "-----

There are 2 different transformations, "--...-." and "--...-.".

- The length of words will be at most 100.
- . Each words(i) will have length in range (1, 12).
- words[i] will only consist of lowercase letters

国际摩尔斯密码定义一种标准编码方式,将每个字母对应于一个由一系列点和短线组成的字符串,比

为了方便,所有26个英文字母对应摩尔斯密码表如下:

### 例如:

输入: words = ["gin", "zen", "gig", "msg"] 输出: 2

### 解释:

各单词翻译如下:

"gin" -> "--...-." "zen" -> "--...-." "gig" -> "--...-."

"msg" -> "--...--." 共有 2 种不同翻译, "--...-." 和 "--...--.".

## 注章:

- 单词列表words 的长度不会超过 100。
- 每个单词 words[i]的长度范围为 [1, 12]。
- · 每个单词 words[i]只包含小写字母。

## Solution for Python3:

```
class Solution:
  def uniqueMorseRepresentations(self, words):
     :type words: List[str]
    :rtype: int
    Morse =
    [".-","-
     seen = {"".join(Morse[ord(c) - ord('a')] for c in word) for word in words}
     return len(seen)
```

# Solution for C++:

```
1 class Solution {
2 public:
    int uniqueMorseRepresentations(vector<string>& words) {
     5 {".-
       unordered_set<string> seen;
       for (string word : words) {
   string s = "";
          for (char c : word)
s += Morse[c - 'a'];
10
11
          seen.insert(s);
13
       return seen.size():
    }
 };
```