☆ Premium

ref=nb npl)





## 5906. Number of Valid Words in a Sentence

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A sentence consists of lowercase letters ( 'a' to 'z'), digits ( '0' to '9'), hyphens ( '-'), punctuation marks ('!', '.', and ','), and spaces (' ') only. Each sentence can be broken down into one or more tokens separated by one or more spaces ' '.

A token is a valid word if:

- It only contains lowercase letters, hyphens, and/or punctuation (no digits).
- There is at most one hyphen '-' . If present, it should be surrounded by lowercase characters ( "a-b" is valid, but "-ab" and "ab-" are not valid).
- There is at most one punctuation mark. If present, it should be at the end of the token.

Examples of valid words include "a-b.", "afad", "ba-c", "a!", and "!".

Given a string sentence, return the number of valid words in sentence.

# User Accepted: 0 **User Tried:** 0 **Total Accepted:** O **Total Submissions:** 0 Difficulty: Easy

#### Example 1:

```
Input: sentence = "cat and dog"
Explanation: The valid words in the sentence are "cat", "and", and "dog".
```

#### Example 2:

```
Input: sentence = "!this 1-s b8d!"
Output: 0
Explanation: There are no valid words in the sentence.
"!this" is invalid because it starts with a punctuation mark.
"1-s" and "b8d" are invalid because they contain digits.
```

### Example 3:

```
Input: sentence = "alice and bob are playing stone-game10"
Output: 5
Explanation: The valid words in the sentence are "alice", "and", "bob", "are", and "playing".
"stone-game10" is invalid because it contains digits.
```

## Example 4:

```
Input: sentence = "he bought 2 pencils, 3 erasers, and 1 pencil-sharpener."
Output: 6
Explanation: The valid words in the sentence are "he", "bought", "pencils,", "erasers,", "and", and "pencil-sharpener.
```

## **Constraints:**

- 1 <= sentence.length <= 1000
- sentence only contains lowercase English letters, digits, '', '-', '!', '.', and ','.
- There will be at least 1 token.



```
4 ▼
        for (const s of a) {
 5 ▼
             if (s.length > 0) {
 6
                 // pr(s, ok(s))
 7
                 if (ok(s)) res++;
 8
        }
9
10
        return res;
   };
11
12
13 \vee \text{const ok} = (s) \Rightarrow \{
14
        let punctuation = 0, hyphen = 0, digit = 0;
15
        let n = s.length;
16 ▼
        for (let i = 0; i < n; i++) {
17
             let c = s[i];
18 ▼
             if (c == '!' || c == '.' || c == ',') {
                 if (i != n - 1) return false;
19
                 punctuation++;
20
             } else if (c == '-') {
21 •
                 if (i == 0 \mid | i == n - 1) return false;
22
                 if (!isLowerCaseLetter(s[i - 1]) || !(isLowerCaseLetter(s[i + 1]))) return false;
23
24
                 hyphen++;
25 ▼
             } else if (isDigit(c)) {
26
                 digit++;
27
28
        return digit == 0 && punctuation <= 1 && hyphen <= 1;
29
30
   };
31
32 \vee const isDigit = (c) \Rightarrow \{
        let s = '0123456789';
33
        return s.indexOf(c) != -1;
34
35
    };
36
37 v const isLowerCaseLetter = (c) ⇒> {
        let ascii = c.charCodeAt();
38
        return ascii >= 97 && ascii <= 122;
39
40
   };
```

☐ Custom Testcase

Use Example Testcases

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