

Problem 3121: Count the Number of Special Characters II

Problem Information

Difficulty: **Medium**

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

You are given a string

word

. A letter

c

is called

special

if it appears

both

in lowercase and uppercase in

word

, and

every

lowercase occurrence of

c

appears before the

first

uppercase occurrence of

c

.

Return the number of

special

letters

in

word

.

Example 1:

Input:

word = "aaAbcBC"

Output:

3

Explanation:

The special characters are

'a'

,

'b'

, and

'c'

.

Example 2:

Input:

word = "abc"

Output:

0

Explanation:

There are no special characters in

word

.

Example 3:

Input:

word = "AbBCab"

Output:

0

Explanation:

There are no special characters in

word

.

Constraints:

$1 \leq \text{word.length} \leq 2 * 10$

5

word

consists of only lowercase and uppercase English letters.

Code Snippets

C++:

```
class Solution {
public:
    int numberOfSpecialChars(string word) {

    }
};
```

Java:

```
class Solution {
    public int numberOfSpecialChars(String word) {

    }
}
```

Python3:

```
class Solution:
    def numberOfSpecialChars(self, word: str) -> int:
```

Python:

```
class Solution(object):
    def numberOfSpecialChars(self, word):
        """
        :type word: str
        :rtype: int
        """
```

JavaScript:

```
/**
 * @param {string} word
 * @return {number}
 */
var numberOfSpecialChars = function(word) {

};
```

TypeScript:

```
function numberOfSpecialChars(word: string): number {

};
```

C#:

```
public class Solution {
    public int NumberOfSpecialChars(string word) {

    }
}
```

C:

```
int numberOfSpecialChars(char* word) {

}
```

Go:

```
func numberOfSpecialChars(word string) int {  
  
}
```

Kotlin:

```
class Solution {  
    fun numberOfSpecialChars(word: String): Int {  
  
    }  
}
```

Swift:

```
class Solution {  
    func numberOfSpecialChars(_ word: String) -> Int {  
  
    }  
}
```

Rust:

```
impl Solution {  
    pub fn number_of_special_chars(word: String) -> i32 {  
  
    }  
}
```

Ruby:

```
# @param {String} word  
# @return {Integer}  
def number_of_special_chars(word)  
  
end
```

PHP:

```
class Solution {  
  
    /**  
     * @param String $word  
     * @return Integer  
     */  
}
```

```

*/
function numberOfSpecialChars($word) {

}

}

```

Dart:

```

class Solution {
  int numberOfSpecialChars(String word) {

  }

}

```

Scala:

```

object Solution {
  def numberOfSpecialChars(word: String): Int = {

  }

}

```

Elixir:

```

defmodule Solution do
  @spec number_of_special_chars(word :: String.t) :: integer
  def number_of_special_chars(word) do

  end

end

```

Erlang:

```

-spec number_of_special_chars(Word :: unicode:unicode_binary()) -> integer().
number_of_special_chars(Word) ->

.

```

Racket:

```

(define/contract (number-of-special-chars word)
  (-> string? exact-integer?)
  )

```

Solutions

C++ Solution:

```
/*
 * Problem: Count the Number of Special Characters II
 * Difficulty: Medium
 * Tags: string, hash
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class Solution {
public:
    int numberOfSpecialChars(string word) {

    }
};
```

Java Solution:

```
/**
 * Problem: Count the Number of Special Characters II
 * Difficulty: Medium
 * Tags: string, hash
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class Solution {
    public int numberOfSpecialChars(String word) {

    }
}
```

Python3 Solution:


```

"""
Problem: Count the Number of Special Characters II
Difficulty: Medium
Tags: string, hash

Approach: String manipulation with hash map or two pointers
Time Complexity: O(n) or O(n log n)
Space Complexity: O(n) for hash map
"""

class Solution:
    def numberOfSpecialChars(self, word: str) -> int:
        # TODO: Implement optimized solution
        pass

```

Python Solution:

```

class Solution(object):
    def numberOfSpecialChars(self, word):
        """
        :type word: str
        :rtype: int
        """

```

JavaScript Solution:

```

/**
 * Problem: Count the Number of Special Characters II
 * Difficulty: Medium
 * Tags: string, hash
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
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 */

/**
 * @param {string} word
 * @return {number}
 */
var numberOfSpecialChars = function(word) {

```

```
};
```

TypeScript Solution:

```
/**
 * Problem: Count the Number of Special Characters II
 * Difficulty: Medium
 * Tags: string, hash
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

function numberOfSpecialChars(word: string): number {

};
```

C# Solution:

```
/*
 * Problem: Count the Number of Special Characters II
 * Difficulty: Medium
 * Tags: string, hash
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

public class Solution {
    public int NumberOfSpecialChars(string word) {

    }
}
```

C Solution:

```
/*
 * Problem: Count the Number of Special Characters II
 * Difficulty: Medium
```

```

* Tags: string, hash
*
* Approach: String manipulation with hash map or two pointers
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(n) for hash map
*/

int numberOfSpecialChars(char* word) {

}

```

Go Solution:

```

// Problem: Count the Number of Special Characters II
// Difficulty: Medium
// Tags: string, hash
//
// Approach: String manipulation with hash map or two pointers
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(n) for hash map

func numberOfSpecialChars(word string) int {

}

```

Kotlin Solution:

```

class Solution {
    fun numberOfSpecialChars(word: String): Int {

    }
}

```

Swift Solution:

```

class Solution {
    func numberOfSpecialChars(_ word: String) -> Int {

    }
}

```

Rust Solution:

```
// Problem: Count the Number of Special Characters II
// Difficulty: Medium
// Tags: string, hash
//
// Approach: String manipulation with hash map or two pointers
// Time Complexity: O(n) or O(n log n)
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impl Solution {
    pub fn number_of_special_chars(word: String) -> i32 {

    }
}
```

Ruby Solution:

```
# @param {String} word
# @return {Integer}
def number_of_special_chars(word)

end
```

PHP Solution:

```
class Solution {

    /**
     * @param String $word
     * @return Integer
     */
    function numberOfSpecialChars($word) {

    }
}
```

Dart Solution:

```
class Solution {
    int numberOfSpecialChars(String word) {
```

```
}  
}
```

Scala Solution:

```
object Solution {  
  def numberOfSpecialChars(word: String): Int = {  
  
  }  
}
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defmodule Solution do  
  @spec number_of_special_chars(word :: String.t) :: integer  
  def number_of_special_chars(word) do  
  
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-spec number_of_special_chars(Word :: unicode:unicode_binary()) -> integer().  
number_of_special_chars(Word) ->  
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```
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