

Problem 1876: Substrings of Size Three with Distinct Characters

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

A string is

good

if there are no repeated characters.

Given a string

s

, return

the number of

good substrings

of length

three

in

s

.

Note that if there are multiple occurrences of the same substring, every occurrence should be counted.

A

substring

is a contiguous sequence of characters in a string.

Example 1:

Input:

s = "xyzazz"

Output:

1

Explanation:

There are 4 substrings of size 3: "xyz", "yzz", "zza", and "zaz". The only good substring of length 3 is "xyz".

Example 2:

Input:

s = "aababcabc"

Output:

4

Explanation:

There are 7 substrings of size 3: "aab", "aba", "bab", "abc", "bca", "cab", and "abc". The good substrings are "abc", "bca", "cab", and "abc".

Constraints:

$1 \leq s.length \leq 100$

s

consists of lowercase English letters.

Code Snippets

C++:

```
class Solution {  
public:  
    int countGoodSubstrings(string s) {  
  
    }  
};
```

Java:

```
class Solution {  
public int countGoodSubstrings(String s) {  
  
}  
}
```

Python3:

```
class Solution:  
    def countGoodSubstrings(self, s: str) -> int:
```

Python:

```
class Solution(object):  
    def countGoodSubstrings(self, s):  
        """  
        :type s: str  
        :rtype: int  
        """
```

JavaScript:

```
/**  
 * @param {string} s  
 * @return {number}  
 */  
var countGoodSubstrings = function(s) {  
  
};
```

TypeScript:

```
function countGoodSubstrings(s: string): number {  
  
};
```

C#:

```
public class Solution {  
public int CountGoodSubstrings(string s) {  
  
}  
}
```

C:

```
int countGoodSubstrings(char* s) {  
  
}
```

Go:

```
func countGoodSubstrings(s string) int {  
  
}
```

Kotlin:

```
class Solution {  
fun countGoodSubstrings(s: String): Int {  
  
}  
}
```

Swift:

```
class Solution {  
    func countGoodSubstrings(_ s: String) -> Int {  
        }  
        }
```

Rust:

```
impl Solution {  
    pub fn count_good_substrings(s: String) -> i32 {  
        }  
        }
```

Ruby:

```
# @param {String} s  
# @return {Integer}  
def count_good_substrings(s)  
  
end
```

PHP:

```
class Solution {  
  
    /**  
     * @param String $s  
     * @return Integer  
     */  
    function countGoodSubstrings($s) {  
  
    }  
}
```

Dart:

```
class Solution {  
    int countGoodSubstrings(String s) {  
        }
```

```
}
```

Scala:

```
object Solution {  
    def countGoodSubstrings(s: String): Int = {  
        }  
        }  
}
```

Elixir:

```
defmodule Solution do  
    @spec count_good_substrings(s :: String.t) :: integer  
    def count_good_substrings(s) do  
  
    end  
    end
```

Erlang:

```
-spec count_good_substrings(S :: unicode:unicode_binary()) -> integer().  
count_good_substrings(S) ->  
.
```

Racket:

```
(define/contract (count-good-substrings s)  
  (-> string? exact-integer?)  
  )
```

Solutions

C++ Solution:

```
/*  
 * Problem: Substrings of Size Three with Distinct Characters  
 * Difficulty: Easy  
 * Tags: array, string, tree, hash  
 */
```

```

* Approach: Use two pointers or sliding window technique
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(h) for recursion stack where h is height
*/



class Solution {
public:
int countGoodSubstrings(string s) {

}

};


```

Java Solution:

```

/**
* Problem: Substrings of Size Three with Distinct Characters
* Difficulty: Easy
* Tags: array, string, tree, hash
*
* Approach: Use two pointers or sliding window technique
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(h) for recursion stack where h is height
*/
class Solution {
public int countGoodSubstrings(String s) {

}
}


```

Python3 Solution:

```

"""
Problem: Substrings of Size Three with Distinct Characters
Difficulty: Easy
Tags: array, string, tree, hash

Approach: Use two pointers or sliding window technique
Time Complexity: O(n) or O(n log n)
Space Complexity: O(h) for recursion stack where h is height
"""


```

```
class Solution:

def countGoodSubstrings(self, s: str) -> int:
    # TODO: Implement optimized solution
    pass
```

Python Solution:

```
class Solution(object):

def countGoodSubstrings(self, s):
    """
    :type s: str
    :rtype: int
    """
```

JavaScript Solution:

```
/**
 * Problem: Substrings of Size Three with Distinct Characters
 * Difficulty: Easy
 * Tags: array, string, tree, hash
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(h) for recursion stack where h is height
 */

/**
 * @param {string} s
 * @return {number}
 */
var countGoodSubstrings = function(s) {

};
```

TypeScript Solution:

```
/**
 * Problem: Substrings of Size Three with Distinct Characters
 * Difficulty: Easy
 * Tags: array, string, tree, hash
```

```

/*
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(h) for recursion stack where h is height
 */

function countGoodSubstrings(s: string): number {

}

```

C# Solution:

```

/*
 * Problem: Substrings of Size Three with Distinct Characters
 * Difficulty: Easy
 * Tags: array, string, tree, hash
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(h) for recursion stack where h is height
 */

public class Solution {
    public int CountGoodSubstrings(string s) {

    }
}

```

C Solution:

```

/*
 * Problem: Substrings of Size Three with Distinct Characters
 * Difficulty: Easy
 * Tags: array, string, tree, hash
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(h) for recursion stack where h is height
 */

int countGoodSubstrings(char* s) {

```

```
}
```

Go Solution:

```
// Problem: Substrings of Size Three with Distinct Characters
// Difficulty: Easy
// Tags: array, string, tree, hash
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(h) for recursion stack where h is height

func countGoodSubstrings(s string) int {
}
```

Kotlin Solution:

```
class Solution {
    fun countGoodSubstrings(s: String): Int {
        return 0
    }
}
```

Swift Solution:

```
class Solution {
    func countGoodSubstrings(_ s: String) -> Int {
        return 0
    }
}
```

Rust Solution:

```
// Problem: Substrings of Size Three with Distinct Characters
// Difficulty: Easy
// Tags: array, string, tree, hash
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
```

```
// Space Complexity: O(h) for recursion stack where h is height

impl Solution {
    pub fn count_good_substrings(s: String) -> i32 {
        }

    }
}
```

Ruby Solution:

```
# @param {String} s
# @return {Integer}
def count_good_substrings(s)

end
```

PHP Solution:

```
class Solution {

    /**
     * @param String $s
     * @return Integer
     */
    function countGoodSubstrings($s) {

    }
}
```

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