

Problem 3083: Existence of a Substring in a String and Its Reverse

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Given a

string

s

, find any

substring

of length

2

which is also present in the reverse of

s

.

Return

true

if such a substring exists, and

false

otherwise.

Example 1:

Input:

s = "leetcode"

Output:

true

Explanation:

Substring

"ee"

is of length

2

which is also present in

reverse(s) == "edocleet"

Example 2:

Input:

s = "abcba"

Output:

true

Explanation:

All of the substrings of length

2

"ab"

,

"bc"

,

"cb"

,

"ba"

are also present in

reverse(s) == "abcba"

.

Example 3:

Input:

s = "abcd"

Output:

false

Explanation:

There is no substring of length

2

in

s

, which is also present in the reverse of

s

.

Constraints:

$1 \leq s.length \leq 100$

s

consists only of lowercase English letters.

Code Snippets

C++:

```
class Solution {  
public:  
    bool isSubstringPresent(string s) {  
  
    }  
};
```

Java:

```
class Solution {  
public boolean isSubstringPresent(String s) {  
  
}
```

```
}
```

Python3:

```
class Solution:  
    def isSubstringPresent(self, s: str) -> bool:
```

Python:

```
class Solution(object):  
    def isSubstringPresent(self, s):  
        """  
        :type s: str  
        :rtype: bool  
        """
```

JavaScript:

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

TypeScript:

```
function isSubstringPresent(s: string): boolean {  
  
};
```

C#:

```
public class Solution {  
    public bool IsSubstringPresent(string s) {  
  
    }  
}
```

C:

```
bool isSubstringPresent(char* s) {  
}  
}
```

Go:

```
func isSubstringPresent(s string) bool {  
}  
}
```

Kotlin:

```
class Solution {  
    fun isSubstringPresent(s: String): Boolean {  
          
    }  
}
```

Swift:

```
class Solution {  
    func isSubstringPresent(_ s: String) -> Bool {  
          
    }  
}
```

Rust:

```
impl Solution {  
    pub fn is_substring_present(s: String) -> bool {  
          
    }  
}
```

Ruby:

```
# @param {String} s  
# @return {Boolean}  
def is_substring_present(s)  
  
end
```

PHP:

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

Dart:

```
class Solution {  
bool isSubstringPresent(String s) {  
  
}  
}
```

Scala:

```
object Solution {  
def isSubstringPresent(s: String): Boolean = {  
  
}  
}
```

Elixir:

```
defmodule Solution do  
@spec is_substring_present(s :: String.t) :: boolean  
def is_substring_present(s) do  
  
end  
end
```

Erlang:

```
-spec is_substring_present(S :: unicode:unicode_binary()) -> boolean().  
is_substring_present(S) ->  
.
```

Racket:

```
(define/contract (is-substring-present s)
  (-> string? boolean?)
  )
```

Solutions

C++ Solution:

```
/*
 * Problem: Existence of a Substring in a String and Its Reverse
 * Difficulty: Easy
 * Tags: string, tree, hash
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(h) for recursion stack where h is height
 */

class Solution {
public:
    bool isSubstringPresent(string s) {

    }
};
```

Java Solution:

```
/**
 * Problem: Existence of a Substring in a String and Its Reverse
 * Difficulty: Easy
 * Tags: string, tree, hash
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(h) for recursion stack where h is height
 */

class Solution {
    public boolean isSubstringPresent(String s) {

    }
}
```

```
}
```

Python3 Solution:

```
"""
Problem: Existence of a Substring in a String and Its Reverse
Difficulty: Easy
Tags: string, tree, hash

Approach: String manipulation with hash map or two pointers
Time Complexity: O(n) or O(n log n)
Space Complexity: O(h) for recursion stack where h is height
"""

class Solution:

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

Python Solution:

```
class Solution(object):

    def isSubstringPresent(self, s):
        """
        :type s: str
        :rtype: bool
        """
```

JavaScript Solution:

```
/**
 * Problem: Existence of a Substring in a String and Its Reverse
 * Difficulty: Easy
 * Tags: string, tree, hash
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(h) for recursion stack where h is height
 */

/**
```

```
* @param {string} s
* @return {boolean}
*/
var isSubstringPresent = function(s) {

};
```

TypeScript Solution:

```
/** 
* Problem: Existence of a Substring in a String and Its Reverse
* Difficulty: Easy
* Tags: string, tree, hash
*
* Approach: String manipulation with hash map or two pointers
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(h) for recursion stack where h is height
*/
function isSubstringPresent(s: string): boolean {

};
```

C# Solution:

```
/*
* Problem: Existence of a Substring in a String and Its Reverse
* Difficulty: Easy
* Tags: string, tree, hash
*
* Approach: String manipulation with hash map or two pointers
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(h) for recursion stack where h is height
*/
public class Solution {
    public bool IsSubstringPresent(string s) {
        }
}
```

C Solution:

```
/*
 * Problem: Existence of a Substring in a String and Its Reverse
 * Difficulty: Easy
 * Tags: string, tree, hash
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(h) for recursion stack where h is height
 */

bool isSubstringPresent(char* s) {

}
```

Go Solution:

```
// Problem: Existence of a Substring in a String and Its Reverse
// Difficulty: Easy
// Tags: string, tree, hash
//
// Approach: String manipulation with hash map or two pointers
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(h) for recursion stack where h is height

func isSubstringPresent(s string) bool {

}
```

Kotlin Solution:

```
class Solution {
    fun isSubstringPresent(s: String): Boolean {
        }
    }
}
```

Swift Solution:

```
class Solution {
    func isSubstringPresent(_ s: String) -> Bool {
```

```
}
```

```
}
```

Rust Solution:

```
// Problem: Existence of a Substring in a String and Its Reverse
// Difficulty: Easy
// Tags: string, tree, hash
//
// Approach: String manipulation with hash map or two pointers
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(h) for recursion stack where h is height

impl Solution {
    pub fn is_substring_present(s: String) -> bool {
        //
    }
}
```

Ruby Solution:

```
# @param {String} s
# @return {Boolean}
def is_substring_present(s)

end
```

PHP Solution:

```
class Solution {

    /**
     * @param String $s
     * @return Boolean
     */
    function isSubstringPresent($s) {

    }
}
```

Dart Solution:

```
class Solution {  
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Scala Solution:

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