Problem 387: First Unique Character in a String

Problem Information

Difficulty: Easy
Acceptance Rate: 0.00%
Paid Only: No

Problem Description

Given a string

s

, find the

first

non-repeating character in it and return its index. If it

does not

exist, return

-1

.

Example 1:

Input:

s = "leetcode"

Output:

0

Explanation:

The character

'l'

at index 0 is the first character that does not occur at any other index.

Example 2:

Input:

s = "loveleetcode"

Output:

2

Example 3:

Input:

s = "aabb"

Output:

-1

Constraints:

1 <= s.length <= 10

5

s

consists of only lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
int firstUniqChar(string s) {

}
};
```

Java:

```
class Solution {
public int firstUniqChar(String s) {

}
}
```

Python3:

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

Python:

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

JavaScript:

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

```
};
```

TypeScript:

```
function firstUniqChar(s: string): number {

};
```

C#:

```
public class Solution {
public int FirstUniqChar(string s) {

}
}
```

C:

```
int firstUniqChar(char* s) {

}
```

Go:

```
func firstUniqChar(s string) int {

}
```

Kotlin:

```
class Solution {
fun firstUniqChar(s: String): Int {

}
}
```

Swift:

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

}
```

```
}
```

Rust:

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

}
}
```

Ruby:

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

end
```

PHP:

```
class Solution {

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

}
}
```

Dart:

```
class Solution {
int firstUniqChar(String s) {

}
}
```

Scala:

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

}
}
```

Elixir:

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

end
end
```

Erlang:

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

Racket:

```
(define/contract (first-uniq-char s)
(-> string? exact-integer?)
)
```

Solutions

C++ Solution:

```
/*
* Problem: First Unique Character in a String
* Difficulty: Easy
* Tags: string, hash, queue
*
* 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 firstUniqChar(string s) {

}
};
```

Java Solution:

```
/**
* Problem: First Unique Character in a String
* Difficulty: Easy
* Tags: string, hash, queue
*
* 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 firstUniqChar(String s) {

}
}
```

Python3 Solution:

```
"""
Problem: First Unique Character in a String
Difficulty: Easy
Tags: string, hash, queue

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

Python Solution:

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

JavaScript Solution:

```
/**
* Problem: First Unique Character in a String
* Difficulty: Easy
* Tags: string, hash, queue
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* 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
*/

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

};
```

TypeScript Solution:

```
/**
* Problem: First Unique Character in a String
* Difficulty: Easy
* Tags: string, hash, queue
*
* 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 firstUniqChar(s: string): number {
```

```
};
```

C# Solution:

```
/*
* Problem: First Unique Character in a String
* Difficulty: Easy
* Tags: string, hash, queue
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* 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 FirstUniqChar(string s) {

}
}
```

C Solution:

```
/*
* Problem: First Unique Character in a String
* Difficulty: Easy
* Tags: string, hash, queue
*
* 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 firstUniqChar(char* s) {

}
```

Go Solution:

```
// Problem: First Unique Character in a String
// Difficulty: Easy
```

```
// Tags: string, hash, queue
//
// 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 firstUniqChar(s string) int {

}
```

Kotlin Solution:

```
class Solution {
fun firstUniqChar(s: String): Int {

}
}
```

Swift Solution:

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

}
}
```

Rust Solution:

```
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// Tags: string, hash, queue
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impl Solution {
pub fn first_uniq_char(s: String) -> i32 {

}
}
```

Ruby Solution:

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

end
```

PHP Solution:

```
class Solution {

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

}
}
```

Dart Solution:

```
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def first_uniq_char(s) do
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end
end
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