

Problem 1542: Find Longest Awesome Substring

Problem Information

Difficulty: Hard

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

You are given a string

s

. An

awesome

substring is a non-empty substring of

s

such that we can make any number of swaps in order to make it a palindrome.

Return

the length of the maximum length

awesome substring

of

s

.

Example 1:

Input:

s = "3242415"

Output:

5

Explanation:

"24241" is the longest awesome substring, we can form the palindrome "24142" with some swaps.

Example 2:

Input:

s = "12345678"

Output:

1

Example 3:

Input:

s = "213123"

Output:

6

Explanation:

"213123" is the longest awesome substring, we can form the palindrome "231132" with some swaps.

Constraints:

$1 \leq s.length \leq 10$

5

s

consists only of digits.

Code Snippets

C++:

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

Java:

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

Python3:

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

Python:

```
class Solution(object):  
    def longestAwesome(self, s):  
        """  
        :type s: str
```

```
:rtype: int  
"""
```

JavaScript:

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

TypeScript:

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

C#:

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

C:

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

Go:

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

Kotlin:

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

Swift:

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

Rust:

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

Ruby:

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

PHP:

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

Dart:

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

Scala:

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

Elixir:

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

Erlang:

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

Racket:

```
(define/contract (longest-awesome s)  
  (-> string? exact-integer?)  
)
```

Solutions

C++ Solution:

```

/*
 * Problem: Find Longest Awesome Substring
 * Difficulty: Hard
 * 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:
    int longestAwesome(string s) {
}
};


```

Java Solution:

```

/**
 * Problem: Find Longest Awesome Substring
 * Difficulty: Hard
 * 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 int longestAwesome(String s) {
}

}

```

Python3 Solution:

```

"""
Problem: Find Longest Awesome Substring
Difficulty: Hard
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 longestAwesome(self, s: str) -> int:
# TODO: Implement optimized solution
pass

```

Python Solution:

```

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

```

JavaScript Solution:

```

/**
 * Problem: Find Longest Awesome Substring
 * Difficulty: Hard
 * 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 {number}
 */
var longestAwesome = function(s) {

};


```

TypeScript Solution:

```

/**
 * Problem: Find Longest Awesome Substring
 * Difficulty: Hard
 * 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 longestAwesome(s: string): number {

};

```

C# Solution:

```

/*
 * Problem: Find Longest Awesome Substring
 * Difficulty: Hard
 * Tags: string, tree, hash
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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(h) for recursion stack where h is height
 */

public class Solution {
    public int LongestAwesome(string s) {
        return 0;
    }
}

```

C Solution:

```

/*
 * Problem: Find Longest Awesome Substring
 * Difficulty: Hard
 * 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

```

```
*/  
  
int longestAwesome(char* s) {  
  
}
```

Go Solution:

```
// Problem: Find Longest Awesome Substring  
// Difficulty: Hard  
// 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 longestAwesome(s string) int {  
  
}
```

Kotlin Solution:

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

Swift Solution:

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

Rust Solution:

```
// Problem: Find Longest Awesome Substring  
// Difficulty: Hard  
// 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 longest_awesome(s: String) -> i32 {
        }

    }
}

```

Ruby Solution:

```

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

end

```

PHP Solution:

```

class Solution {

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

    }
}

```

Dart Solution:

```

class Solution {
    int longestAwesome(String s) {
        }

    }
}

```

Scala Solution:

```
object Solution {  
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        }  
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