

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:

$1 \leq s.length \leq 10$

s

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
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 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
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 */

/**
 * @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
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
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 */

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

    }
}

```

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:

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Scala Solution:

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