

Problem 2833: Furthest Point From Origin

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

You are given a string

moves

of length

n

consisting only of characters

'L'

,

'R'

, and

'_'

. The string represents your movement on a number line starting from the origin

0

.

In the

i

th

move, you can choose one of the following directions:

move to the left if

`moves[i] = 'L'`

or

`moves[i] = '_'`

move to the right if

`moves[i] = 'R'`

or

`moves[i] = '_'`

Return

the

distance from the origin

of the

furthest

point you can get to after

n

moves

.

.

.

Example 1:

Input:

```
moves = "L_RL__R"
```

Output:

3

Explanation:

The furthest point we can reach from the origin 0 is point -3 through the following sequence of moves "LLRLLLRL".

Example 2:

Input:

```
moves = "_R__LL_"
```

Output:

5

Explanation:

The furthest point we can reach from the origin 0 is point -5 through the following sequence of moves "LRLLLLL".

Example 3:

Input:

```
moves = "_____"
```

Output:

7

Explanation:

The furthest point we can reach from the origin 0 is point 7 through the following sequence of moves "RRRRRRR".

Constraints:

$1 \leq \text{moves.length} \leq n \leq 50$

moves

consists only of characters

'L'

,

'R'

and

'_'

Code Snippets

C++:

```
class Solution {
public:
    int furthestDistanceFromOrigin(string moves) {
        }
};
```

Java:

```
class Solution {  
    public int furthestDistanceFromOrigin(String moves) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def furthestDistanceFromOrigin(self, moves: str) -> int:
```

Python:

```
class Solution(object):  
    def furthestDistanceFromOrigin(self, moves):  
        """  
        :type moves: str  
        :rtype: int  
        """
```

JavaScript:

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

TypeScript:

```
function furthestDistanceFromOrigin(moves: string): number {  
  
};
```

C#:

```
public class Solution {  
    public int FurthestDistanceFromOrigin(string moves) {
```

```
}
```

```
}
```

C:

```
int furthestDistanceFromOrigin(char* moves) {  
  
}
```

Go:

```
func furthestDistanceFromOrigin(moves string) int {  
  
}
```

Kotlin:

```
class Solution {  
    fun furthestDistanceFromOrigin(moves: String): Int {  
  
    }  
}
```

Swift:

```
class Solution {  
    func furthestDistanceFromOrigin(_ moves: String) -> Int {  
  
    }  
}
```

Rust:

```
impl Solution {  
    pub fn furthest_distance_from_origin(moves: String) -> i32 {  
  
    }  
}
```

Ruby:

```
# @param {String} moves
# @return {Integer}
def furthest_distance_from_origin(moves)

end
```

PHP:

```
class Solution {

    /**
     * @param String $moves
     * @return Integer
     */
    function furthestDistanceFromOrigin($moves) {

    }
}
```

Dart:

```
class Solution {
    int furthestDistanceFromOrigin(String moves) {
    }
}
```

Scala:

```
object Solution {
    def furthestDistanceFromOrigin(moves: String): Int = {
    }
}
```

Elixir:

```
defmodule Solution do
  @spec furthest_distance_from_origin(moves :: String.t) :: integer
  def furthest_distance_from_origin(moves) do

  end
end
```

Erlang:

```
-spec furthest_distance_from_origin(Moves :: unicode:unicode_binary()) ->
    integer().
furthest_distance_from_origin(Moves) ->
    .
```

Racket:

```
(define/contract (furthest-distance-from-origin moves)
  (-> string? exact-integer?))
```

Solutions

C++ Solution:

```
/*
 * Problem: Furthest Point From Origin
 * Difficulty: Easy
 * Tags: string
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(1) to O(n) depending on approach
 */

class Solution {
public:
    int furthestDistanceFromOrigin(string moves) {
    }
};
```

Java Solution:

```
/**
 * Problem: Furthest Point From Origin
 * Difficulty: Easy
 * Tags: string
 *
```

```

* Approach: String manipulation with hash map or two pointers
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(1) to O(n) depending on approach
*/



class Solution {
public int furthestDistanceFromOrigin(String moves) {

}

}

```

Python3 Solution:

```

"""
Problem: Furthest Point From Origin
Difficulty: Easy
Tags: string

Approach: String manipulation with hash map or two pointers
Time Complexity: O(n) or O(n log n)
Space Complexity: O(1) to O(n) depending on approach
"""

class Solution:
    def furthestDistanceFromOrigin(self, moves: str) -> int:
        # TODO: Implement optimized solution
        pass

```

Python Solution:

```

class Solution(object):
    def furthestDistanceFromOrigin(self, moves):
        """
:type moves: str
:rtype: int
"""

```

JavaScript Solution:

```

/**
 * Problem: Furthest Point From Origin

```

```

 * Difficulty: Easy
 * Tags: string
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(1) to O(n) depending on approach
 */

/**
 * @param {string} moves
 * @return {number}
 */
var furthestDistanceFromOrigin = function(moves) {

};

```

TypeScript Solution:

```

 /**
 * Problem: Furthest Point From Origin
 * Difficulty: Easy
 * Tags: string
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(1) to O(n) depending on approach
 */

function furthestDistanceFromOrigin(moves: string): number {
}

```

C# Solution:

```

 /*
 * Problem: Furthest Point From Origin
 * Difficulty: Easy
 * Tags: string
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)

```

```

* Space Complexity: O(1) to O(n) depending on approach
*/
public class Solution {
    public int FurthestDistanceFromOrigin(string moves) {
        }
    }
}

```

C Solution:

```

/*
 * Problem: Furthest Point From Origin
 * Difficulty: Easy
 * Tags: string
 *
 * Approach: String manipulation with hash map or two pointers
 * Time Complexity: O(n) or O(n log n)
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*/

int furthestDistanceFromOrigin(char* moves) {
}

```

Go Solution:

```

// Problem: Furthest Point From Origin
// Difficulty: Easy
// Tags: string
//
// Approach: String manipulation with hash map or two pointers
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(1) to O(n) depending on approach

func furthestDistanceFromOrigin(moves string) int {
}

```

Kotlin Solution:

```
class Solution {  
    fun furthestDistanceFromOrigin(moves: String): Int {  
        }  
        }  
}
```

Swift Solution:

```
class Solution {  
    func furthestDistanceFromOrigin(_ moves: String) -> Int {  
        }  
        }  
}
```

Rust Solution:

```
// Problem: Furthest Point From Origin  
// Difficulty: Easy  
// Tags: string  
//  
// Approach: String manipulation with hash map or two pointers  
// Time Complexity: O(n) or O(n log n)  
// Space Complexity: O(1) to O(n) depending on approach  
  
impl Solution {  
    pub fn furthest_distance_from_origin(moves: String) -> i32 {  
        }  
        }  
}
```

Ruby Solution:

```
# @param {String} moves  
# @return {Integer}  
def furthest_distance_from_origin(moves)  
end
```

PHP Solution:

```
class Solution {
```

```
/**  
 * @param String $moves  
 * @return Integer  
 */  
  
function furthestDistanceFromOrigin($moves) {  
  
}  
}
```

Dart Solution:

```
class Solution {  
int furthestDistanceFromOrigin(String moves) {  
  
}  
}
```

Scala Solution:

```
object Solution {  
def furthestDistanceFromOrigin(moves: String): Int = {  
  
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defmodule Solution do  
@spec furthest_distance_from_origin(moves :: String.t) :: integer  
def furthest_distance_from_origin(moves) do  
  
end  
end
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Erlang Solution:

```
-spec furthest_distance_from_origin(Moves :: unicode:unicode_binary()) ->  
integer().  
furthest_distance_from_origin(Moves) ->  
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```
(define/contract (furthest-distance-from-origin moves)
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)
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