

Problem 2186: Minimum Number of Steps to Make Two Strings Anagram II

Problem Information

Difficulty: **Medium**

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

You are given two strings

s

and

t

. In one step, you can append

any character

to either

s

or

t

.

Return

the minimum number of steps to make

s

and

t

anagrams

of each other.

An

anagram

of a string is a string that contains the same characters with a different (or the same) ordering.

Example 1:

Input:

s = "

lee

tco

de

", t = "co

a

t

s

"

Output:

7

Explanation:

- In 2 steps, we can append the letters in "as" onto $s = \text{"leetcode"}$, forming $s = \text{"leetcode"}$

as

". - In 5 steps, we can append the letters in "leede" onto $t = \text{"coats"}$, forming $t = \text{"coats"}$

leede

". "leetcodeas" and "coatsleede" are now anagrams of each other. We used a total of $2 + 5 = 7$ steps. It can be shown that there is no way to make them anagrams of each other with less than 7 steps.

Example 2:

Input:

$s = \text{"night"}$, $t = \text{"thing"}$

Output:

0

Explanation:

The given strings are already anagrams of each other. Thus, we do not need any further steps.

Constraints:

$1 \leq s.length, t.length \leq 2 * 10$

5

s

and

t

consist of lowercase English letters.

Code Snippets

C++:

```
class Solution {  
public:  
    int minSteps(string s, string t) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int minSteps(String s, String t) {  
  
    }  
}
```

Python3:

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

Python:

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

JavaScript:

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

};
```

TypeScript:

```
function minSteps(s: string, t: string): number {

};
```

C#:

```
public class Solution {
    public int MinSteps(string s, string t) {

    }
}
```

C:

```
int minSteps(char* s, char* t) {

}
```

Go:

```
func minSteps(s string, t string) int {

}
```

Kotlin:

```
class Solution {
    fun minSteps(s: String, t: String): Int {

    }
}
```

```
}
```

Swift:

```
class Solution {  
    func minSteps(_ s: String, _ t: String) -> Int {  
  
    }  
}
```

Rust:

```
impl Solution {  
    pub fn min_steps(s: String, t: String) -> i32 {  
  
    }  
}
```

Ruby:

```
# @param {String} s  
# @param {String} t  
# @return {Integer}  
def min_steps(s, t)  
  
end
```

PHP:

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

Dart:

```

class Solution {
  int minSteps(String s, String t) {

  }

}

```

Scala:

```

object Solution {
  def minSteps(s: String, t: String): Int = {

  }

}

```

Elixir:

```

defmodule Solution do
  @spec min_steps(s :: String.t, t :: String.t) :: integer
  def min_steps(s, t) do

  end

end

```

Erlang:

```

-spec min_steps(S :: unicode:unicode_binary(), T :: unicode:unicode_binary())
-> integer().
min_steps(S, T) ->
.

```

Racket:

```

(define/contract (min-steps s t)
  (-> string? string? exact-integer?)
)

```

Solutions

C++ Solution:

```

/*
 * Problem: Minimum Number of Steps to Make Two Strings Anagram II
 * Difficulty: Medium
 * Tags: string, hash
 *
 * 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 minSteps(string s, string t) {

    }

};

```

Java Solution:

```

/**
 * Problem: Minimum Number of Steps to Make Two Strings Anagram II
 * Difficulty: Medium
 * Tags: string, hash
 *
 * 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 minSteps(String s, String t) {

    }

}

```

Python3 Solution:

```

"""
Problem: Minimum Number of Steps to Make Two Strings Anagram II
Difficulty: Medium
Tags: string, hash
"""

```


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 minSteps(self, s: str, t: str) -> int:
```

```
# TODO: Implement optimized solution
```

```
pass
```

Python Solution:

```
class Solution(object):
```

```
def minSteps(self, s, t):
```

```
"""
```

```
:type s: str
```

```
:type t: str
```

```
:rtype: int
```

```
"""
```

JavaScript Solution:

```
/**
```

```
 * Problem: Minimum Number of Steps to Make Two Strings Anagram II
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```
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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
```

```
 * @param {string} t
```

```
 * @return {number}
```

```
 */
```

```
var minSteps = function(s, t) {
```

```
};
```

TypeScript Solution:

```
/**
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function minSteps(s: string, t: string): number {

};
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C# Solution:

```
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 * Time Complexity: O(n) or O(n log n)
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 */

public class Solution {
    public int MinSteps(string s, string t) {

    }
}
```

C Solution:

```
/*
 * Problem: Minimum Number of Steps to Make Two Strings Anagram II
 * Difficulty: Medium
 * Tags: string, hash
 *
 * 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 minSteps(char* s, char* t) {

}

```

Go Solution:

```

// Problem: Minimum Number of Steps to Make Two Strings Anagram II
// Difficulty: Medium
// Tags: string, hash
//
// Approach: String manipulation with hash map or two pointers
// Time Complexity: O(n) or O(n log n)
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func minSteps(s string, t string) int {

}

```

Kotlin Solution:

```

class Solution {
    fun minSteps(s: String, t: String): Int {

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Swift Solution:

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class Solution {
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impl Solution {
    pub fn min_steps(s: String, t: String) -> i32 {

    }
}

```

Ruby Solution:

```

# @param {String} s
# @param {String} t
# @return {Integer}
def min_steps(s, t)

end

```

PHP Solution:

```

class Solution {

    /**
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     * @return Integer
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    function minSteps($s, $t) {

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Dart Solution:

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class Solution {
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  def minSteps(s: String, t: String): Int = {  
  
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