

Problem 2514: Count Anagrams

Problem Information

Difficulty: Hard

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

You are given a string

s

containing one or more words. Every consecutive pair of words is separated by a single space

''

.

A string

t

is an

anagram

of string

s

if the

i

th

word of

t

is a

permutation

of the

i

th

word of

s

.

For example,

"acb dfe"

is an anagram of

"abc def"

, but

"def cab"

and

"adc bef"

are not.

Return

the number of

distinct anagrams

of

s

. Since the answer may be very large, return it

modulo

10

9

+ 7

.

Example 1:

Input:

s = "too hot"

Output:

18

Explanation:

Some of the anagrams of the given string are "too hot", "oot hot", "oto toh", "too toh", and "too oht".

Example 2:

Input:

s = "aa"

Output:

1

Explanation:

There is only one anagram possible for the given string.

Constraints:

1 <= s.length <= 10

5

s

consists of lowercase English letters and spaces

"

There is single space between consecutive words.

Code Snippets

C++:

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

Java:

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

Python3:

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

Python:

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

JavaScript:

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

TypeScript:

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

C#:

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

```
}
```

```
}
```

C:

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

Go:

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

Kotlin:

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

Swift:

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

Rust:

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

Ruby:

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

end
```

PHP:

```
class Solution {

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

    }
}
```

Dart:

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

}
```

Scala:

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

}
```

Elixir:

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

end
end
```

Erlang:

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

Racket:

```
(define/contract (count-anagrams s)  
  (-> string? exact-integer?)  
)
```

Solutions

C++ Solution:

```
/*  
 * Problem: Count Anagrams  
 * Difficulty: Hard  
 * Tags: string, math, 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 countAnagrams(string s) {  
  
    }  
};
```

Java Solution:

```
/**  
 * Problem: Count Anagrams  
 * Difficulty: Hard  
 * Tags: string, math, 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 countAnagrams(String s) {

}
}

```

Python3 Solution:

```

"""
Problem: Count Anagrams
Difficulty: Hard
Tags: string, math, 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 countAnagrams(self, s: str) -> int:
        # TODO: Implement optimized solution
        pass

```

Python Solution:

```

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

```

JavaScript Solution:

```

/**
 * Problem: Count Anagrams
 * Difficulty: Hard

```

```

* Tags: string, math, 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
*/

```

```

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

```

TypeScript Solution:

```

/** 
* Problem: Count Anagrams
* Difficulty: Hard
* Tags: string, math, 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
*/

```

```

function countAnagrams(s: string): number {
}

```

C# Solution:

```

/*
* Problem: Count Anagrams
* Difficulty: Hard
* Tags: string, math, 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

```

```
*/\n\npublic class Solution {\n    public int CountAnagrams(string s) {\n        }\n    }\n}
```

C Solution:

```
/*\n * Problem: Count Anagrams\n * Difficulty: Hard\n * Tags: string, math, hash\n *\n * Approach: String manipulation with hash map or two pointers\n * Time Complexity: O(n) or O(n log n)\n * Space Complexity: O(n) for hash map\n */\n\nint countAnagrams(char* s) {\n    }\n}
```

Go Solution:

```
// Problem: Count Anagrams\n// Difficulty: Hard\n// Tags: string, math, hash\n//\n// Approach: String manipulation with hash map or two pointers\n// Time Complexity: O(n) or O(n log n)\n// Space Complexity: O(n) for hash map\n\nfunc countAnagrams(s string) int {\n    }
```

Kotlin Solution:

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

Swift Solution:

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

Rust Solution:

```
// Problem: Count Anagrams  
// Difficulty: Hard  
// Tags: string, math, 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(n) for hash map  
  
impl Solution {  
    pub fn count_anagrams(s: String) -> i32 {  
        }  
        }  
}
```

Ruby Solution:

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

PHP Solution:

```
class Solution {
```

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

}

}
```

Dart Solution:

```
class Solution {
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