

# Problem 1941: Check if All Characters Have Equal Number of Occurrences

## Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

## Problem Description

Given a string

s

, return

true

if

s

is a

good

string, or

false

otherwise

.

A string

s

is

good

if

all

the characters that appear in

s

have the

same

number of occurrences (i.e., the same frequency).

Example 1:

Input:

s = "abacbc"

Output:

true

Explanation:

The characters that appear in s are 'a', 'b', and 'c'. All characters occur 2 times in s.

Example 2:

Input:

s = "aaabb"

Output:

false

Explanation:

The characters that appear in s are 'a' and 'b'. 'a' occurs 3 times while 'b' occurs 2 times, which is not the same number of times.

Constraints:

1 <= s.length <= 1000

s

consists of lowercase English letters.

## Code Snippets

### C++:

```
class Solution {
public:
    bool areOccurrencesEqual(string s) {

    }
};
```

### Java:

```
class Solution {
    public boolean areOccurrencesEqual(String s) {

    }
}
```

### Python3:

```
class Solution:
    def areOccurrencesEqual(self, s: str) -> bool:
```

### Python:

```
class Solution(object):
    def areOccurrencesEqual(self, s):
        """
        :type s: str
        :rtype: bool
        """
```

### JavaScript:

```
/**
 * @param {string} s
 * @return {boolean}
 */
var areOccurrencesEqual = function(s) {

};
```

### TypeScript:

```
function areOccurrencesEqual(s: string): boolean {

};
```

### C#:

```
public class Solution {
    public bool AreOccurrencesEqual(string s) {

    }
}
```

### C:

```
bool areOccurrencesEqual(char* s) {

}
```

### Go:

```
func areOccurrencesEqual(s string) bool {  
  
}
```

### Kotlin:

```
class Solution {  
    fun areOccurrencesEqual(s: String): Boolean {  
  
    }  
}
```

### Swift:

```
class Solution {  
    func areOccurrencesEqual(_ s: String) -> Bool {  
  
    }  
}
```

### Rust:

```
impl Solution {  
    pub fn are_occurrences_equal(s: String) -> bool {  
  
    }  
}
```

### Ruby:

```
# @param {String} s  
# @return {Boolean}  
def are_occurrences_equal(s)  
  
end
```

### PHP:

```
class Solution {  
  
    /**  
     * @param String $s  
     * @return Boolean  
     */  
}
```

```

*/
function areOccurrencesEqual($s) {

}

}

```

### Dart:

```

class Solution {
  bool areOccurrencesEqual(String s) {

  }

}

```

### Scala:

```

object Solution {
  def areOccurrencesEqual(s: String): Boolean = {

  }

}

```

### Elixir:

```

defmodule Solution do
  @spec are_occurrences_equal(s :: String.t) :: boolean
  def are_occurrences_equal(s) do

  end

end

```

### Erlang:

```

-spec are_occurrences_equal(S :: unicode:unicode_binary()) -> boolean().
are_occurrences_equal(S) ->

.

```

### Racket:

```

(define/contract (are-occurrences-equal s)
  (-> string? boolean?)
)

```

## Solutions

### C++ Solution:

```
/*
 * Problem: Check if All Characters Have Equal Number of Occurrences
 * Difficulty: Easy
 * 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:
    bool areOccurrencesEqual(string s) {

    }
};
```

### Java Solution:

```
/**
 * Problem: Check if All Characters Have Equal Number of Occurrences
 * Difficulty: Easy
 * 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 boolean areOccurrencesEqual(String s) {

    }
}
```

### Python3 Solution:

```

"""
Problem: Check if All Characters Have Equal Number of Occurrences
Difficulty: Easy
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 areOccurrencesEqual(self, s: str) -> bool:
        # TODO: Implement optimized solution
        pass

```

## Python Solution:

```

class Solution(object):
    def areOccurrencesEqual(self, s):
        """
        :type s: str
        :rtype: bool
        """

```

## JavaScript Solution:

```

/**
 * Problem: Check if All Characters Have Equal Number of Occurrences
 * Difficulty: Easy
 * 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
 */

/**
 * @param {string} s
 * @return {boolean}
 */
var areOccurrencesEqual = function(s) {

```



```
};
```

### TypeScript Solution:

```
/**
 * Problem: Check if All Characters Have Equal Number of Occurrences
 * Difficulty: Easy
 * 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
 */

function areOccurrencesEqual(s: string): boolean {

};
```

### C# Solution:

```
/*
 * Problem: Check if All Characters Have Equal Number of Occurrences
 * Difficulty: Easy
 * 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
 */

public class Solution {
    public bool AreOccurrencesEqual(string s) {

    }
}
```

### C Solution:

```
/*
 * Problem: Check if All Characters Have Equal Number of Occurrences
 * Difficulty: Easy
```

```

* 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
*/

bool areOccurrencesEqual(char* s) {

}

```

### Go Solution:

```

// Problem: Check if All Characters Have Equal Number of Occurrences
// Difficulty: Easy
// 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

func areOccurrencesEqual(s string) bool {

}

```

### Kotlin Solution:

```

class Solution {
    fun areOccurrencesEqual(s: String): Boolean {

    }
}

```

### Swift Solution:

```

class Solution {
    func areOccurrencesEqual(_ s: String) -> Bool {

    }
}

```

### Rust Solution:

```
// Problem: Check if All Characters Have Equal Number of Occurrences
// Difficulty: Easy
// 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

impl Solution {
    pub fn are_occurrences_equal(s: String) -> bool {

    }
}
```

### Ruby Solution:

```
# @param {String} s
# @return {Boolean}
def are_occurrences_equal(s)

end
```

### PHP Solution:

```
class Solution {

    /**
     * @param String $s
     * @return Boolean
     */
    function areOccurrencesEqual($s) {

    }
}
```

### Dart Solution:

```
class Solution {
    bool areOccurrencesEqual(String s) {
```

```
}  
}
```

### Scala Solution:

```
object Solution {  
  def areOccurrencesEqual(s: String): Boolean = {  
  
  }  
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### Elixir Solution:

```
defmodule Solution do  
  @spec are_occurrences_equal(s :: String.t) :: boolean  
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### Erlang Solution:

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are_occurrences_equal(S) ->  
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### Racket Solution:

```
(define/contract (are-occurrences-equal s)  
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