

# Problem 2840: Check if Strings Can be Made Equal With Operations II

## Problem Information

Difficulty: **Medium**

Acceptance Rate: 0.00%

Paid Only: No

## Problem Description

You are given two strings

$s_1$

and

$s_2$

, both of length

$n$

, consisting of

lowercase

English letters.

You can apply the following operation on

any

of the two strings

any

number of times:

Choose any two indices

$i$

and

$j$

such that

$i < j$

and the difference

$j - i$

is

even

, then

swap

the two characters at those indices in the string.

Return

true

if you can make the strings

$s_1$

and

s2

equal, and

false

otherwise

.

Example 1:

Input:

s1 = "abcdba", s2 = "cabdab"

Output:

true

Explanation:

We can apply the following operations on s1: - Choose the indices  $i = 0, j = 2$ . The resulting string is s1 = "cbadba". - Choose the indices  $i = 2, j = 4$ . The resulting string is s1 = "cbbdaa". - Choose the indices  $i = 1, j = 5$ . The resulting string is s1 = "cabdab" = s2.

Example 2:

Input:

s1 = "abe", s2 = "bea"

Output:

false

Explanation:

It is not possible to make the two strings equal.

Constraints:

$n == s1.length == s2.length$

$1 \leq n \leq 10$

5

s1

and

s2

consist only of lowercase English letters.

## Code Snippets

### C++:

```
class Solution {
public:
    bool checkStrings(string s1, string s2) {

    }
};
```

### Java:

```
class Solution {
    public boolean checkStrings(String s1, String s2) {

    }
}
```

### Python3:

```
class Solution:
    def checkStrings(self, s1: str, s2: str) -> bool:
```

## Python:

```
class Solution(object):
    def checkStrings(self, s1, s2):
        """
        :type s1: str
        :type s2: str
        :rtype: bool
        """
```

## JavaScript:

```
/**
 * @param {string} s1
 * @param {string} s2
 * @return {boolean}
 */
var checkStrings = function(s1, s2) {

};
```

## TypeScript:

```
function checkStrings(s1: string, s2: string): boolean {

};
```

## C#:

```
public class Solution {
    public bool CheckStrings(string s1, string s2) {

    }
}
```

## C:

```
bool checkStrings(char* s1, char* s2) {

}
```

## Go:

```
func checkStrings(s1 string, s2 string) bool {  
  
}
```

### Kotlin:

```
class Solution {  
    fun checkStrings(s1: String, s2: String): Boolean {  
  
    }  
}
```

### Swift:

```
class Solution {  
    func checkStrings(_ s1: String, _ s2: String) -> Bool {  
  
    }  
}
```

### Rust:

```
impl Solution {  
    pub fn check_strings(s1: String, s2: String) -> bool {  
  
    }  
}
```

### Ruby:

```
# @param {String} s1  
# @param {String} s2  
# @return {Boolean}  
def check_strings(s1, s2)  
  
end
```

### PHP:

```
class Solution {  
  
    /**  
     * @param String $s1
```

```

* @param String $s2
* @return Boolean
*/
function checkStrings($s1, $s2) {

}

}

```

#### Dart:

```

class Solution {
  bool checkStrings(String s1, String s2) {

  }
}

```

#### Scala:

```

object Solution {
  def checkStrings(s1: String, s2: String): Boolean = {

  }
}

```

#### Elixir:

```

defmodule Solution do
  @spec check_strings(s1 :: String.t, s2 :: String.t) :: boolean
  def check_strings(s1, s2) do

  end
end

```

#### Erlang:

```

-spec check_strings(S1 :: unicode:unicode_binary(), S2 ::
unicode:unicode_binary()) -> boolean().
check_strings(S1, S2) ->
.

```

#### Racket:

```
(define/contract (check-strings s1 s2)
  (-> string? string? boolean?)
)
```

## Solutions

### C++ Solution:

```
/*
 * Problem: Check if Strings Can be Made Equal With Operations II
 * Difficulty: Medium
 * Tags: string, hash, sort
 *
 * 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 checkStrings(string s1, string s2) {

    }
};
```

### Java Solution:

```
/**
 * Problem: Check if Strings Can be Made Equal With Operations II
 * Difficulty: Medium
 * Tags: string, hash, sort
 *
 * 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 checkStrings(String s1, String s2) {

    }
}
```



```
}
```

### Python3 Solution:

```
"""
Problem: Check if Strings Can be Made Equal With Operations II
Difficulty: Medium
Tags: string, hash, sort

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 checkStrings(self, s1: str, s2: str) -> bool:
        # TODO: Implement optimized solution
        pass
```

### Python Solution:

```
class Solution(object):
    def checkStrings(self, s1, s2):
        """
        :type s1: str
        :type s2: str
        :rtype: bool
        """
```

### JavaScript Solution:

```
/**
 * Problem: Check if Strings Can be Made Equal With Operations II
 * Difficulty: Medium
 * Tags: string, hash, sort
 *
 * 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} s1
 * @param {string} s2
 * @return {boolean}
 */
var checkStrings = function(s1, s2) {

};

```

### TypeScript Solution:

```

/**
 * Problem: Check if Strings Can be Made Equal With Operations II
 * Difficulty: Medium
 * Tags: string, hash, sort
 *
 * 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 checkStrings(s1: string, s2: string): boolean {

};

```

### C# Solution:

```

/*
 * Problem: Check if Strings Can be Made Equal With Operations II
 * Difficulty: Medium
 * Tags: string, hash, sort
 *
 * 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 CheckStrings(string s1, string s2) {

    }
}

```

```
}
```

### C Solution:

```
/*
 * Problem: Check if Strings Can be Made Equal With Operations II
 * Difficulty: Medium
 * Tags: string, hash, sort
 *
 * 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 checkStrings(char* s1, char* s2) {

}
```

### Go Solution:

```
// Problem: Check if Strings Can be Made Equal With Operations II
// Difficulty: Medium
// Tags: string, hash, sort
//
// 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 checkStrings(s1 string, s2 string) bool {

}
```

### Kotlin Solution:

```
class Solution {
    fun checkStrings(s1: String, s2: String): Boolean {

    }
}
```

### Swift Solution:

```

class Solution {
    func checkStrings(_ s1: String, _ s2: String) -> Bool {

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### Rust Solution:

```

// Problem: Check if Strings Can be Made Equal With Operations II
// Difficulty: Medium
// Tags: string, hash, sort
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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 check_strings(s1: String, s2: String) -> bool {

    }
}

```

### Ruby Solution:

```

# @param {String} s1
# @param {String} s2
# @return {Boolean}
def check_strings(s1, s2)

end

```

### PHP Solution:

```

class Solution {

    /**
     * @param String $s1
     * @param String $s2
     * @return Boolean
     */
    function checkStrings($s1, $s2) {

```

```
}  
}
```

### Dart Solution:

```
class Solution {  
  bool checkStrings(String s1, String s2) {  
  
  }  
}
```

### Scala Solution:

```
object Solution {  
  def checkStrings(s1: String, s2: String): Boolean = {  
  
  }  
}
```

### Elixir Solution:

```
defmodule Solution do  
  @spec check_strings(s1 :: String.t, s2 :: String.t) :: boolean  
  def check_strings(s1, s2) do  
  
  end  
end
```

### Erlang Solution:

```
-spec check_strings(S1 :: unicode:unicode_binary(), S2 ::  
  unicode:unicode_binary()) -> boolean().  
check_strings(S1, S2) ->  
  .
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### Racket Solution:

```
(define/contract (check-strings s1 s2)  
  (-> string? string? boolean?)  
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