

# Problem 1460: Make Two Arrays Equal by Reversing Subarrays

## Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

## Problem Description

You are given two integer arrays of equal length

`target`

and

`arr`

. In one step, you can select any

non-empty subarray

of

`arr`

and reverse it. You are allowed to make any number of steps.

Return

`true`

if you can make

`arr`

equal to

target

or

false

otherwise

.

Example 1:

Input:

target = [1,2,3,4], arr = [2,4,1,3]

Output:

true

Explanation:

You can follow the next steps to convert arr to target: 1- Reverse subarray [2,4,1], arr becomes [1,4,2,3] 2- Reverse subarray [4,2], arr becomes [1,2,4,3] 3- Reverse subarray [4,3], arr becomes [1,2,3,4] There are multiple ways to convert arr to target, this is not the only way to do so.

Example 2:

Input:

target = [7], arr = [7]

Output:

true

Explanation:

arr is equal to target without any reverses.

Example 3:

Input:

target = [3,7,9], arr = [3,7,11]

Output:

false

Explanation:

arr does not have value 9 and it can never be converted to target.

Constraints:

target.length == arr.length

1 <= target.length <= 1000

1 <= target[i] <= 1000

1 <= arr[i] <= 1000

## Code Snippets

**C++:**

```
class Solution {
public:
    bool canBeEqual(vector<int>& target, vector<int>& arr) {

    }
};
```

### Java:

```
class Solution {  
    public boolean canBeEqual(int[] target, int[] arr) {  
  
    }  
}
```

### Python3:

```
class Solution:  
    def canBeEqual(self, target: List[int], arr: List[int]) -> bool:
```

### Python:

```
class Solution(object):  
    def canBeEqual(self, target, arr):  
        """  
        :type target: List[int]  
        :type arr: List[int]  
        :rtype: bool  
        """
```

### JavaScript:

```
/**  
 * @param {number[]} target  
 * @param {number[]} arr  
 * @return {boolean}  
 */  
var canBeEqual = function(target, arr) {  
  
};
```

### TypeScript:

```
function canBeEqual(target: number[], arr: number[]): boolean {  
  
};
```

### C#:

```

public class Solution {
    public bool CanBeEqual(int[] target, int[] arr) {

    }
}

```

### C:

```

bool canBeEqual(int* target, int targetSize, int* arr, int arrSize) {

}

```

### Go:

```

func canBeEqual(target []int, arr []int) bool {

}

```

### Kotlin:

```

class Solution {
    fun canBeEqual(target: IntArray, arr: IntArray): Boolean {

    }
}

```

### Swift:

```

class Solution {
    func canBeEqual(_ target: [Int], _ arr: [Int]) -> Bool {

    }
}

```

### Rust:

```

impl Solution {
    pub fn can_be_equal(target: Vec<i32>, arr: Vec<i32>) -> bool {

    }
}

```

### Ruby:

```
# @param {Integer[]} target
# @param {Integer[]} arr
# @return {Boolean}
def can_be_equal(target, arr)

end
```

## PHP:

```
class Solution {

    /**
     * @param Integer[] $target
     * @param Integer[] $arr
     * @return Boolean
     */
    function canBeEqual($target, $arr) {

    }

}
```

## Dart:

```
class Solution {
  bool canBeEqual(List<int> target, List<int> arr) {

  }
}
```

## Scala:

```
object Solution {
  def canBeEqual(target: Array[Int], arr: Array[Int]): Boolean = {

  }
}
```

## Elixir:

```
defmodule Solution do
  @spec can_be_equal(target :: [integer], arr :: [integer]) :: boolean
  def can_be_equal(target, arr) do
```

```
end
end
```

### Erlang:

```
-spec can_be_equal(Target :: [integer()], Arr :: [integer()]) -> boolean().
can_be_equal(Target, Arr) ->
.
```

### Racket:

```
(define/contract (can-be-equal target arr)
  (-> (listof exact-integer?) (listof exact-integer?) boolean?)
)
```

## Solutions

### C++ Solution:

```
/*
 * Problem: Make Two Arrays Equal by Reversing Subarrays
 * Difficulty: Easy
 * Tags: array, hash, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class Solution {
public:
    bool canBeEqual(vector<int>& target, vector<int>& arr) {

    }
};
```

### Java Solution:

```
/**
 * Problem: Make Two Arrays Equal by Reversing Subarrays
```

```

* Difficulty: Easy
* Tags: array, hash, sort
*
* Approach: Use two pointers or sliding window technique
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(n) for hash map
*/

class Solution {
public boolean canBeEqual(int[] target, int[] arr) {

}
}

```

### Python3 Solution:

```

"""
Problem: Make Two Arrays Equal by Reversing Subarrays
Difficulty: Easy
Tags: array, hash, sort

Approach: Use two pointers or sliding window technique
Time Complexity: O(n) or O(n log n)
Space Complexity: O(n) for hash map
"""

class Solution:
def canBeEqual(self, target: List[int], arr: List[int]) -> bool:
# TODO: Implement optimized solution
pass

```

### Python Solution:

```

class Solution(object):
def canBeEqual(self, target, arr):
"""
:type target: List[int]
:type arr: List[int]
:rtype: bool
"""

```



## JavaScript Solution:

```
/**
 * Problem: Make Two Arrays Equal by Reversing Subarrays
 * Difficulty: Easy
 * Tags: array, hash, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

/**
 * @param {number[]} target
 * @param {number[]} arr
 * @return {boolean}
 */
var canBeEqual = function(target, arr) {

};
```

## TypeScript Solution:

```
/**
 * Problem: Make Two Arrays Equal by Reversing Subarrays
 * Difficulty: Easy
 * Tags: array, hash, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

function canBeEqual(target: number[], arr: number[]): boolean {

};
```

## C# Solution:

```
/*
 * Problem: Make Two Arrays Equal by Reversing Subarrays
 * Difficulty: Easy
 * Tags: array, hash, sort
```

```

*
* Approach: Use two pointers or sliding window technique
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(n) for hash map
*/

public class Solution {
public bool CanBeEqual(int[] target, int[] arr) {

}
}

```

### C Solution:

```

/*
* Problem: Make Two Arrays Equal by Reversing Subarrays
* Difficulty: Easy
* Tags: array, hash, sort
*
* Approach: Use two pointers or sliding window technique
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(n) for hash map
*/

bool canBeEqual(int* target, int targetSize, int* arr, int arrSize) {

}

```

### Go Solution:

```

// Problem: Make Two Arrays Equal by Reversing Subarrays
// Difficulty: Easy
// Tags: array, hash, sort
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(n) for hash map

func canBeEqual(target []int, arr []int) bool {

}

```

### Kotlin Solution:

```
class Solution {  
    fun canBeEqual(target: IntArray, arr: IntArray): Boolean {  
  
    }  
}
```

### Swift Solution:

```
class Solution {  
    func canBeEqual(_ target: [Int], _ arr: [Int]) -> Bool {  
  
    }  
}
```

### Rust Solution:

```
// Problem: Make Two Arrays Equal by Reversing Subarrays  
// Difficulty: Easy  
// Tags: array, hash, sort  
//  
// Approach: Use two pointers or sliding window technique  
// Time Complexity: O(n) or O(n log n)  
// Space Complexity: O(n) for hash map  
  
impl Solution {  
    pub fn can_be_equal(target: Vec<i32>, arr: Vec<i32>) -> bool {  
  
    }  
}
```

### Ruby Solution:

```
# @param {Integer[]} target  
# @param {Integer[]} arr  
# @return {Boolean}  
def can_be_equal(target, arr)  
  
end
```

### PHP Solution:

```
class Solution {  
  
    /**  
     * @param Integer[] $target  
     * @param Integer[] $arr  
     * @return Boolean  
     */  
    function canBeEqual($target, $arr) {  
  
    }  
}
```

### Dart Solution:

```
class Solution {  
    bool canBeEqual(List<int> target, List<int> arr) {  
  
    }  
}
```

### Scala Solution:

```
object Solution {  
    def canBeEqual(target: Array[Int], arr: Array[Int]): Boolean = {  
  
    }  
}
```

### Elixir Solution:

```
defmodule Solution do  
    @spec can_be_equal(target :: [integer], arr :: [integer]) :: boolean  
    def can_be_equal(target, arr) do  
  
    end  
end
```

### Erlang Solution:

```
-spec can_be_equal(Target :: [integer()], Arr :: [integer()]) -> boolean().  
can_be_equal(Target, Arr) ->  
.
```

### **Racket Solution:**

```
(define/contract (can-be-equal target arr)  
  (-> (listof exact-integer?) (listof exact-integer?) boolean?)  
  )
```