

Reverse to Make Equal

Given two arrays **A** and **B** of length N, determine if there is a way to make **A** equal to **B** by reversing any subarrays from array **B** any number of times.

Signature

```
bool areTheyEqual(int[] arr_a, int[] arr_b)
```

Input

All integers in array are in the range [0, 1,000,000,000].

Output

Return `true` if **B** can be made equal to **A**, return `false` otherwise.

Example

A = [1, 2, 3, 4]

B = [1, 4, 3, 2]

output = true

After reversing the subarray of **B** from indices 1 to 3, array **B** will equal array **A**.