Code Challenge #10 Palindrome Check (Easy)

Difficulty: 🟩   Category: ▬▬▬   Successful Submissions: 61,945+

Palindrome Check 🟢 ☆

Write a function that takes in a non-empty string and that returns a boolean representing whether the string is a palindrome.

A palindrome is defined as a string that's written the same forward and backward. Note that single-character strings are palindromes.

Sample Input

```
string = "abcdcba"
```

Sample Output

```
true // it's written the same forward and backward
```

Solution #1

```
1. function isPalindrome(string) {
2.   let left = 0;
3.   let right = string.length - 1
4.
5.   while (left <= right){
6.         if (string[left] === string[right]){
7.               left++; right--;
8.         } else {
9.               return false
10.               }
11.         }
12.         return true
13. }
14.
```

Explanation

This solution is based on checking if each letter in the string matches from front to back since a palindrome is a word that is the same backwords and forward. We create a variable called left which starts off in the beginning aka 0 and we start off with a variable called right which starts off at the end (string.length -1). We use a while loop that runs as long as left and right are less than or equal to each

other. If the value at string[left] matches string[right] we increment left by one and decrement right by 1. If the values don't match we return false and if all the values do match we return true. This function runs in O(n) time.