

Palindrome

Background: A palindrome is a word or phrase that reads the same forwards and backwards. The challenge is to write a function that determines if a string is a palindrome.

Challenge: [LeetCode - 125. Valid Palindrome](#)

Resources: [MDN Web Docs](#), [w3Schools](#) and [freeCodeCamp](#)

Notes: The code below is intended to be informational and is not meant to be the only way to write a palindrome checker. In addition to the function below, I employed other functions and methods to test conditions and facilitate user interaction.

```
function isPalindrome(str) {  
  // create a regular expression considers only letters & numbers  
  let regex = /^[^a-z0-9]/gi;  
  
  // use replace() to extract only letters and numbers from the original string  
  // convert the string to lowercase and then convert it to an array and check it  
  let newStrArr = str.replace(regex, "").toLowerCase().split(' ');  
  console.log(newStrArr);  
  
  // convert the numbers & letters only array to a string and check it  
  let newStr = newStrArr.join("");  
  console.log(newStr)  
  
  // convert the numbers & letters only array to a reverse string and check it  
  let revNewStr = newStrArr.reverse().join("");  
  console.log(revNewStr);  
  
  // compare the forward string to the backward string  
  if( newStr === revNewStr ) {  
    return true;  
  }else {  
    return false;  
  }  
};  
// TESTING THE FUNCTION  
console.log(isPalindrome("mine")); // false  
console.log(isPalindrome("re'6'er")); // true  
console.log(isPalindrome("A dog! A panic in a pagoda")) // true  
console.log(isPalindrome("This is a test")); // false  
console.log(isPalindrome("racecar")); // true  
console.log(isPalindrome("Step on no pets")); // true
```

