

JavaScript Valid Palindrome

Challenge

A phrase is a palindrome if, after converting all uppercase letters into lowercase letters and removing all non-alphanumeric characters, it reads the same forward and backward. Alphanumeric characters include letters and numbers.

Given a string `s`, return `true` if it is a palindrome, or `false` otherwise.

1st Example

Input: `s = 'A man, a plan, a canal: Panama'`

Output: `true`

Explanation: `'amanaplanacanalpanama'` is a palindrome.



2nd Example

Input: `s = 'race a car'`

Output: `false`

Explanation: `'raceacar'` is not a palindrome.



Explanation

I've built a function expression, using ES6 syntax, that is defined by an anonymous function that accepts `s` as a string of words.

Within the anonymous function, I establish a variable for the input string called `sanitizedString` which takes the string `s` and applies the string prototype method `replace` to remove the non-alphanumeric characters with the help of regex.

I also set a variable called `reversedString` to reverse the `sanitizedString`. I apply the string prototype method `split` to create an array for every character of the `sanitizedString`, then I use the array prototype `reverse` method to reverse the order of the string characters within the array, and then I use the array prototype `join` method to turn the reversed character array back into a string that can be referred to as `reversedString`.

The `sanitizedString` and `reversedString` variables have the string prototype `toLowerCase` method applied to make sure all the characters are in lower case. The two variables are then compared to each other for basic equality and a Boolean value is returned.