**Palindrome Function Documentation**

# Overview

This document outlines the implementation and usage of three JavaScript functions designed to determine if a given string is a palindrome. A palindrome is a word, phrase, number, or other sequences of characters that reads the same forward and backward, considering spaces and punctuation.

## Function `palindrome1`

### Description

This function uses a for-loop to reverse the string and then compares the reversed string with the original to check for a palindrome.

### Implementation

function palindrome1(str) {  
 let reversed = "";  
 for (let i = str.length - 1; i >= 0; i--) {  
 reversed += str[i];  
 }  
 return str === reversed;  
}

### Example Usage

console.log(palindrome1("apa")); // Outputs: true

## Function `palindrome2`

### Description

Utilizes JavaScript's built-in methods to reverse the string and then performs a comparison with the original string.

### Implementation

function palindrome2(str) {  
 const reversed = str.split('').reverse().join('');  
 return str === reversed;  
}

### Example Usage

console.log(palindrome2("apa")); // Outputs: true

## Function `palindrome3`

### Description

Employs the `Array.prototype.every()` method to check each character in the string against its counterpart from the end to the middle of the string.

### Implementation

function palindrome3(str) {  
 return str.split('').every((char, i) => {  
 return char === str[str.length - i - 1];  
 });  
}

### Example Usage

console.log(palindrome3("apa")); // Outputs: true