



## PALINDROME





### What is Palindrome

A sequence of characters that reads the same either from backwards or forward is known as Palindrome. Not necessarily characters, but words, sentences, numbers etc, can also be Palindrome.

```
Example:
```

- 1.LEVEL // isPalindrome: true
- 2.12321 // isPalindrome: true
- 3.JAVA // isPalindrome: false





#### Find Palindrome

#### Palindrome Algorithm:

- Take the input from the user
- Use a temporary variable (say temp)
   to store the input
- Find the reverse of temp
- Compare the given input with temp
- If temp and the input is the same, return True
- If they are not the same, return False



#### Approach - 1

```
const checkPalindrome = str => {
 const len = str.length;
 for (let i=0; i < len/2; i++) {</pre>
  if (str[i] !== str[len - 1 - i]) {
   return 'it is not Palindrome';
   return 'it is Palindrome';
 }
 const value = checkPalindrome('12321');
 console.log('value', value); //its Palindrome
```



#### Approach - 2

```
function checkPalindrome(str) {
 if (str.length === 1) return true;
 if (str.length === 2) return str[0] === str[1];
 if (str[0] === str.slice(-1))
 return checkPalindrome(str.slice(1, -1))
 return false;
console.log(checkPalindrome('levelup')) // false
console.log(checkPalindrome('madam')) // true
console.log(checkPalindrome('01010')) // true
```



#### Approach - 3

```
const checkPalindromeFunc = str => {
const rvrsStr = split.reverse(); // [ m,a,d,a,m]
const joinedStr = rvrsStr.join(''); // madam
// str = madam
// joinedStr = madam
if (str === joinedStr) return 'its Palindrome';
return 'its not Palindrome'
const result = checkPalindromeFunc('madam');
console.log('result', result); // its Palindrome
```





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