Problem List

Description | Editorial | Solutions

Easy | Topics | Companies

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 inclu letters and numbers.

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

Example 1:

```
Input: s = "A man, a plan, a canal: Panama"
Output: true
Explanation: "amanaplanacanalpanama" a palindrome.
```

Example 2:

```
Input: s = "race a car"
Output: false
Explanation: "raceacar" is not a palindrome.
```

Example 3:

```
Input: s = " "
Output: true
Explanation: s is an empty string "" after removing non-alphanumeric
```

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Code

Java | Auto

```java
class Solution {
    static boolean check(String s,int i, int n){
         if (i >= n / 2) {
            return true;
        }
        if (s.charAt(i) != s.charAt(n - i - 1)) { // Compare cha
            return false;
        }
        return check(s, i + 1, n);


    }
    public boolean isPalindrome(String s) {
        s=s.toLowerCase();
 String sb = " ";
   for(int i=0;i<s.length();i++){
        if(s.charAt(i)>='a' && s.charAt(i)<='z'){
            sb+=s.charAt(i);
        }
    }
        int n = sb.length();
        // If the string is empty or has only one character, it'
        if (n <= 1) {
            return true;
        }
        return check(sb, 0, n);

    }
}
```

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Testcase | Test Result