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Description

Solution

Discuss (999+)

Submissions

Java

Autocomplete

125. Valid Palindrome

Easy

3440

5068

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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.

Example 1:

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

Output: `true`

Explanation: `"amanaplanacanalpanama"` is 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 characters. Since an empty string reads the same forward and backward, it is a palindrome.

Constraints:

- `1 <= s.length <= 2 * 105`
- `s` consists only of printable ASCII characters.

Accepted 1,215,421

Submissions 2,933,386

Seen this question in a real interview before?

Yes

No

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```
1 class Solution {
2     public boolean isPalindrome(String s) {
3
4         StringBuilder builder = new StringBuilder();
5
6         for (char ch : s.toCharArray()) {
7             if (Character.isLetterOrDigit(ch))
8                 builder.append(Character.toLowerCase(ch));
9         }
10
11         String filteredString = builder.toString();
12         String reversedString = builder.reverse().toString();
13
14         return filteredString.equals(reversedString);
15     }
16 }
17
```

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

Your input

"A man, a plan, a canal: Panama"

Output

true

Diff

Expected

true

Console

Use Example Testcases

Run Code

Submit

Problems

Pick One

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125/2236

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1/1