Problem 125: Valid Palindrome

Problem Information

Difficulty: Easy
Acceptance Rate: 52.14%
Paid Only: No
Tags: Two Pointers, String

Problem Description

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.

Code Snippets

C++:

```
class Solution {
public:
bool isPalindrome(string s) {

}
};
```

Java:

```
class Solution {
public boolean isPalindrome(String s) {

}
}
```

Python3:

```
class Solution:
def isPalindrome(self, s: str) -> bool:
```