Leetcode Problem 1. (Easy)

Valid Palindrome

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.

Link: <https://leetcode.com/problems/valid-palindrome/>

class Solution {

public boolean isPalindrome(String s) {

String cleaned = s.toLowerCase().replaceAll("[^a-z0-9]", "");

int left = 0, right = cleaned.length() - 1;

while (left < right) {

if (cleaned.charAt(left) != cleaned.charAt(right)) {

return false;

}

left++;

right--;

}

return true;

}

}

