125. Valid Palindrome

Easy

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Topics

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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.