

125. Valid Palindrome

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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.