

Valid Palindrome - LeetCode

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125. 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:

- $1 \leq s.length \leq 2 * 10^5$
- `s` consists only of printable ASCII characters.