

# 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. A single character is a palindrome. Space and hyphen are considered as non-alphanumeric.

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.

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☒ Yes ☐ No

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