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## 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 (ignoring spaces and punctuation).

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.

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