

## 5. Longest Palindromic Substring

### Difficulty : Medium

<https://leetcode.com/problems/longest-palindromic-substring>

Given a string  $s$ , return *the longest palindromic substring* in  $s$ .

#### Example 1:

**Input:**  $s = \text{"babad"}$

**Output:**  $\text{"bab"}$

**Explanation:**  $\text{"aba"}$  is also a valid answer.

#### Example 2:

**Input:**  $s = \text{"cbbd"}$

**Output:**  $\text{"bb"}$

#### Constraints:

- $1 \leq s.length \leq 1000$
- $s$  consist of only digits and English letters.