# 005. Longest Palindromic Substring

# 005 Longest Palindromic Substring

• Dynamic Programming+string

### **Description**

Given a string s, find the longest palindromic substring in s. You may assume that the maximum length of s is 1000.

#### Example:

```
Input: "babad"
Output: "bab"
Note: "aba" is also a valid answer.
```

#### Example:

```
Input: "cbbd"
Output: "bb"
```

## 1. Thought Line

(1) To each element, set it as the middle elements and check from both left and right direction.

#### 2. Dynamic Programming+string

```
| len = right - left + 1;
| start = left;
| }
| return s.substr(start, len);
};
```