

Description

Solution

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5. Longest Palindromic Substring

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

Example 1:

Input: `s = "babad"`

Output: `"bab"`

Note: `"aba"` is also a valid answer.

Example 2:

Input: `s = "cbbd"`

Output: `"bb"`

Example 3:

Input: `s = "a"`

Output: `"a"`

Example 4:

Input: `s = "ac"`

Output: `"a"`

Constraints:

JavaAutocomplete

1class Solution {

2 public String maxStr = "";

3 public String longestPalindrome(String s) {

4 if (s == null || s.length() == 0)

5 return "";

6

7 for (int i = 0; i < s.length(); i++) { // i is the mid point

8 extendPalindrome(s, i, i); // odd length;

9 extendPalindrome(s, i, i + 1); // even length

10 }

11

12 return maxStr;

13 }

14

15 private void extendPalindrome(String s, int left, int right) {

16

17 while (left >= 0 && right < s.length() && s.charAt(left) == s.charAt(right)) {

18 if (maxStr.length() < s.substring(left, right + 1).length()) {

19 maxStr = s.substring(left, right + 1);

20 }

21 left--;

22 right++;

23 }

24 }

25 }

26 }

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