

Our Solution(s)Run Code

Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 public class Program {
4     // O(n^2) time | O(1) space
5     public static string LongestPalindromicSubstring(string str) {
6         int[] currentLongest = {0, 1};
7         for (int i = 1; i < str.Length; i++) {
8             int[] odd = getLongestPalindromeFrom(str, i - 1, i + 1);
9             int[] even = getLongestPalindromeFrom(str, i - 1, i);
10            int[] longest = odd[1] - odd[0] > even[1] - even[0] ? odd
11                : even;
12            currentLongest = currentLongest[1] - currentLongest[0] >
13                longest[1] - longest[0] ? currentLongest : longest;
14        }
15        return str.Substring(currentLongest[0], currentLongest[1] -
16            currentLongest[0]);
17    }
18
19    public static int[] getLongestPalindromeFrom(string str, int leftIdx,
20        int rightIdx) {
21        while (leftIdx >= 0 && rightIdx < str.Length) {
22            if (str[leftIdx] != str[rightIdx]) {
23                break;
24            }
25            leftIdx--;
26            rightIdx++;
27        }
28        return new int[] {leftIdx + 1, rightIdx};
29    }
30 }
```

Your SolutionsRun Code

Solution 1Solution 2Solution 3

```
1 public class Program {
2     public static string LongestPalindromicSubstring(string str) {
3         // Write your code here.
4         return null;
5     }
6 }
7
```

```
1 (Test)
2 [2025-10-10 14:00:00] Test passed: 1
3 [2025-10-10 14:00:00] Test passed: 1
4 [2025-10-10 14:00:00] Test passed: 1
5 [2025-10-10 14:00:00] Test passed: 1
6 [2025-10-10 14:00:00] Test passed: 1
7 [2025-10-10 14:00:00] Test passed: 1
8 [2025-10-10 14:00:00] Test passed: 1
9 [2025-10-10 14:00:00] Test passed: 1
10 [2025-10-10 14:00:00] Test passed: 1
11 [2025-10-10 14:00:00] Test passed: 1
12 [2025-10-10 14:00:00] Test passed: 1
13 [2025-10-10 14:00:00] Test passed: 1
14 [2025-10-10 14:00:00] Test passed: 1
15 [2025-10-10 14:00:00] Test passed: 1
16 [2025-10-10 14:00:00] Test passed: 1
17 [2025-10-10 14:00:00] Test passed: 1
18 [2025-10-10 14:00:00] Test passed: 1
19 [2025-10-10 14:00:00] Test passed: 1
20 [2025-10-10 14:00:00] Test passed: 1
```

Run or submit code when you're ready.