

PromptScratchpadOur Solution(s)Video ExplanationRun Code

Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // O(n^3) time | O(1) space
5     func longestPalindromicSubstring(string: String) -> String {
6         var longest = ""
7
8         for i in 0 ..< string.count {
9             for j in i ..< string.count {
10                 let leftIndex = string.index(string.startIndex, offsetBy: i)
11                 let rightIndex = string.index(string.startIndex, offsetBy: j + 1)
12                 let substring = String(string[leftIndex ..< rightIndex])
13
14                 if substring.count > longest.count, isPalindrome(string: substring) {
15                     longest = substring
16                 }
17             }
18         }
19
20         return longest
21     }
22
23     func isPalindrome(string: String) -> Bool {
24         var leftPointer = 0
25         var rightPointer = string.count - 1
26         var leftIndex = string.index(string.startIndex, offsetBy: leftPointer)
27         var rightIndex = string.index(string.startIndex, offsetBy: rightPointer)
28
29         while leftIndex < rightIndex {
30             if string[leftIndex] != string[rightIndex] {
31                 return false
32             }
33
34             leftPointer = leftPointer + 1
35             rightPointer = rightPointer - 1
36             leftIndex = string.index(string.startIndex, offsetBy: leftPointer)
37             rightIndex = string.index(string.startIndex, offsetBy: rightPointer)
38         }
39
40         return true
41     }
42 }
43
```

Your SolutionsRun Code

Solution 1Solution 2Solution 3

```
1 class Program {
2     func longestPalindromicSubstring(string: String) -> String {
3         // Write your code here.
4         return ""
5     }
6 }
7
```

Custom OutputRaw OutputSubmit Code

Run or submit code when you're ready.