AlgoExpert Quad Layout Go 12px Sublime Monokai 00:00:0

Our Solution(s) Run Code

Solution 1 Solution 2

```go
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package main

type substring struct {
  left  int
  right int
}

func (ss substring) length() int {
  return ss.right - ss.left
}

// O(n^2) time | O(1) space
func LongestPalindromicSubstring(str string) string {
  result := substring{0, 1}
  for i := 1; i < len(str); i++ {
    odd := getLongestPalindromeFrom(str, i-1, i+1)
    even := getLongestPalindromeFrom(str, i-1, i)
    longest := even
    if odd.length() > even.length() {
      longest = odd
    }
    if longest.length() > result.length() {
      result = longest
    }
  }
  return str[result.left:result.right]
}

func getLongestPalindromeFrom(str string, leftIndex, rightIndex int) substring {
  for leftIndex >= 0 && rightIndex < len(str) {
    if str[leftIndex] != str[rightIndex] {
      break
    }
    leftIndex -= 1
    rightIndex += 1
  }
  return substring{leftIndex + 1, rightIndex}
}
```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```go
package main

func LongestPalindromicSubstring(str string) string {
  // Write your code here.
  return ""
}
```

Custom Output Raw Output Submit Code

Run or submit code when you're ready.