AlgoExpert Quad Layout Swift 12px Sublime Monokai 00:00:00

 Prompt
 Scratchpad
 Our Solution(s)
 Video Explanation

Run Code

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
    class Program {
        // O(n^3) time | O(n^2) space
         func palindromePartitioingMinCuts(_ string: String) -> Int {
            var palindromes = string.map { _ in Array(repeating: false, count: string.count) }
             for i in 0 ... string.count \{
9
                for j in i ..< string.count {</pre>
10
                     let leftIndex = string.index(string.startIndex, offsetBy: i)
11
                     let rightIndex = string.index(string.startIndex, offsetBy: j)
12
                     let subString = String(string[leftIndex ... rightIndex])
13
14
                     palindromes[i][j] = isPalindrome(subString)
15
16
17
18
            var cuts = Array(repeating: Int.max, count: string.count)
19
20
             for i in 0 ... string.count \{
21
                if palindromes[0][i] {
22
                    cuts[i] = 0
23
                 } else {
24
                     cuts[i] = cuts[i - 1] + 1
25
26
                     for j in 1 ... i {
                        if palindromes[j][i], cuts[j - 1] + 1 < cuts[i] {</pre>
27
28
                            cuts[i] = cuts[j - 1] + 1
29
30
31
32
33
34
             return cuts[string.count - 1]
35
36
37
         \begin{tabular}{ll} func & isPalindrome($\_$ string: String) $\to Bool $\{$ \end{tabular}
38
             var leftIndex = 0
39
             var rightIndex = string.count - 1
40
             while leftIndex < rightIndex {</pre>
41
42
                 let leftStringIndex = string.index(string.startIndex, offsetBy: leftIndex)
43
                 let rightStringIndex = string.index(string.startIndex, offsetBy: rightIndex)
44
45
                 if string[leftStringIndex] != string[rightStringIndex] {
46
                     return false
47
48
                leftIndex += 1
49
50
                 rightIndex -= 1
51
52
53
             return true
54
```

Solution 1 Solution 2

55 }