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^2) time | O(n^2) space
        func\ palindromePartitioingMinCuts(\_\ string:\ String)\ \rightarrow\ Int\ \{
            var palindromes = string.map { _ in Array(repeating: false, count: string.count) }
            for i in 0 ... string.count \{
                palindromes[i][i] = true
9
10
11
12
            for length in stride(from: 2, through: string.count, by: 1) {
                for i in stride(from: 0, through: string.count - length, by: 1) {
13
                    let j = i + length - 1
14
15
                     let iStringIndex = string.index(string.startIndex, offsetBy: i)
16
17
                     let jStringIndex = string.index(string.startIndex, offsetBy: j)
18
                    if length == 2, string[iStringIndex] == string[jStringIndex] {
19
20
                        palindromes[i][j] = true
                     } else if palindromes[i + 1][j - 1], string[iStringIndex] == string[jStringIndex] {
21
22
                        palindromes[i][j] = true
23
24
25
26
27
            var cuts = Array(repeating: Int.max, count: string.count)
28
29
            for i in 0 ... string.count \{
30
                if palindromes[0][i] {
                   cuts[i] = 0
31
32
                } else {
33
                    cuts[i] = cuts[i - 1] + 1
34
                    for j in 1 ... i \{
35
                         \mbox{ if palindromes[j][i], cuts[j - 1] + 1 < cuts[i] } \{ \\
36
37
                            cuts[i] = cuts[j - 1] + 1
38
39
40
41
42
43
            return cuts[string.count - 1]
45 }
```

Solution 1 Solution 2

46