AlgoExpert Quad Layout C# 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 using System;
 5 public class Program {
      // O(n^3) time | O(n^2) space
       \textbf{public static int} \ \ \textbf{PalindromePartitioningMinCuts(string \ str)} \ \ \{
         bool[,] palindromes = new bool[str.Length,str.Length];
          for (int i = 0; i < str.Length; i++) \{
            for (int j = i; j < str.Length; j++) {</pre>
10
11
              palindromes[i,j] = IsPalindrome(str.Substring(i, j + 1 - i));
12
13
          int[] cuts = new int[str.Length];
14
15
          Array.Fill(cuts, Int32.MaxValue);
          for (int i = 0; i < str.Length; i++) {</pre>
16
17
            if (palindromes[0,i]) {
18
              cuts[i] = 0;
19
            } else {
              cuts[i] = cuts[i - 1] + 1;
for (int j = 1; j < i; j++) {
   if (palindromes[j,i] && cuts[j - 1] + 1 < cuts[i]) {</pre>
20
21
22
23
                   cuts[i] = cuts[j - 1] + 1;
24
25
26
27
28
29
         return cuts[str.Length - 1];
30
31
       public static bool IsPalindrome(string str) {
32
         int leftIdx = 0;
         int referrux = 0,
int rightIdx = str.Length - 1;
while (leftIdx < rightIdx) {
   if (str[leftIdx] != str[rightIdx]) {</pre>
33
34
35
36
              return false;
37
38
            leftIdx++;
39
            rightIdx--;
40
41
          return true;
42
43 }
```