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

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2

```
_{\rm 1} \, # Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 # O(n^3) time | O(n^2) space
    {\tt def\ palindromePartitioningMinCuts(string):}
         palindromes = [[False for i in string] for j in string]
         for i in range(len(string)):
         for j in range(i, len(string)):
    palindromes[i][j] = isPalindrome(string[i : j + 1])
cuts = [float("inf") for i in string]
10
          for i in range(len(string)):
11
              if palindromes[0][i]:
12
                  cuts[i] = 0
13
              else:
                   cuts[i] = cuts[i - 1] + 1
14
15
                   for j in range(1, i):
                       if palindromes[j][i] and cuts[j - 1] + 1 < cuts[i]:
    cuts[i] = cuts[j - 1] + 1</pre>
16
17
         return cuts[-1]
18
19
20
21 def isPalindrome(string):
22
         leftIdx = 0
23
         rightIdx = len(string) - 1
24
         while leftIdx < rightIdx:</pre>
25
             if string[leftIdx] != string[rightIdx]:
26
                 return False
             leftIdx += 1
rightIdx -= 1
27
28
29
         return True
```