Sublime 00:00:00 AlgoExpert **Quad Layout** C++ 12px Monokai

Video Explanation Run Code

Solution 1 Solution 2

Prompt

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Scratchpad

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 #include <vector>
 4 #include <climits>
 5 using namespace std;
 7 bool isPalindrome(string s);
9 // O(n^3) time | O(n^2) space
10 int palindromePartitioningMinCuts(string s) {
     vector<vector<bool>>> palindromes(s.length(), vector<bool>(s.length(), false));
12
      for (int i = 0; i < s.length(); i++) {</pre>
13
       for (int j = i; j < s.length(); j++) {</pre>
14
          palindromes[i][j] = isPalindrome(s.substr(i, j + 1 - i));
15
16
      vector<int> cuts(s.length(), INT_MAX);
17
18
      for (int i = 0; i < s.length(); i++) {</pre>
19
        if (palindromes[0][i]) {
20
21
         cuts[i] = 0;
        } else {
22
          cuts[i] = cuts[i - 1] + 1;
          for (int j = 1; j < i; j++) {</pre>
23
            if (palindromes[j][i] && cuts[j - 1] + 1 < cuts[i]) {</pre>
24
25
              cuts[i] = cuts[j - 1] + 1;
26
27
28
29
30
      return cuts[s.length() - 1];
31 }
32
33 bool isPalindrome(string s) {
34
     int leftIdx = 0;
      int rightIdx = s.length() - 1;
35
      while (leftIdx < rightIdx) {</pre>
36
       if (s[leftIdx] != s[rightIdx]) {
37
38
          return false;
39
40
        leftIdx++;
41
        rightIdx--;
42
43
      return true;
44 }
```

Our Solution(s)