

Solution 1

Solution 2

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1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 package main
4
5 import "math"
6
7 func PalindromePartitioningMinCuts(s string) int {
8     palindromes := make([][]bool, len(s))
9     for i := range palindromes {
10         palindromes[i] = make([]bool, len(s))
11     }
12     for i := range s {
13         for j := i; j < len(s); j++ {
14             palindromes[i][j] = isPalindrome(s[i : j+1])
15         }
16     }
17     cuts := make([]int, len(s))
18     for i := range cuts {
19         cuts[i] = math.MinInt32
20     }
21     for i := range s {
22         if palindromes[0][i] {
23             cuts[i] = 0
24         } else {
25             cuts[i] = cuts[i-1] + 1
26             for j := 1; j < i; j++ {
27                 if palindromes[j][i] && cuts[j-1]+1 < cuts[i] {
28                     cuts[i] = cuts[j-1] + 1
29                 }
30             }
31         }
32     }
33     return cuts[len(s)-1]
34 }
35
36 func isPalindrome(s string) bool {
37     for i := 0; i < len(s)/2; i++ {
38         if s[i] != s[len(s)-i-1] {
39             return false
40         }
41     }
42     return true
43 }
44
```

