

Solution 1Solution 2

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1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 // O(n^2) time | O(n^2) space
4 function palindromePartitioningMinCuts(string) {
5   const palindromes = [];
6   for (let i = 0; i < string.length; i++) {
7     const row = [];
8     for (let j = 0; j < string.length; j++) {
9       if (i === j) {
10        row.push(true);
11      } else {
12        row.push(false);
13      }
14    }
15    palindromes.push(row);
16  }
17  for (let length = 2; length < string.length + 1; length++) {
18    for (let i = 0; i < string.length - length + 1; i++) {
19      const j = i + length - 1;
20      if (length === 2) {
21        palindromes[i][j] = string[i] === string[j];
22      } else {
23        palindromes[i][j] = string[i] === string[j] && palindromes[i + 1][j - 1];
24      }
25    }
26  }
27  const cuts = new Array(string.length);
28  cuts.fill(Infinity);
29  for (let i = 0; i < string.length; i++) {
30    if (palindromes[0][i]) {
31      cuts[i] = 0;
32    } else {
33      cuts[i] = cuts[i - 1] + 1;
34      for (let j = 1; j < i; j++) {
35        if (palindromes[j][i] && cuts[j - 1] + 1 < cuts[i]) {
36          cuts[i] = cuts[j - 1] + 1;
37        }
38      }
39    }
40  }
41  return cuts[cuts.length - 1];
42 }
43
44 exports.palindromePartitioningMinCuts = palindromePartitioningMinCuts;
45
```

