## 1246. Palindrome Removal Premium Hard ♥ Topics ② Companies ۞ Hint You are given an integer array arr. In one move, you can select a palindromic subarray arr[i], arr[i + 1], ..., arr[j] where i <= j, and remove that subarray from the given array. Note that after removing a subarray, the elements on the left and on the right of that subarray move to fill the gap left by the removal. Return the minimum number of moves needed to remove all numbers from the array. Example 1: **Input:** arr = [1,2] Output: 2 Example 2: **Input:** arr = [1,3,4,1,5]Output: 3 Explanation: Remove [4] then remove [1,3,1] then remove [5]. Constraints: • 1 <= arr.length <= 100 • 1 <= arr[i] <= 20 Seen this question in a real interview before? 1/5 Yes No Accepted 11.1K Submissions 23.9K Acceptance Rate 46.3% Topics Array Dynamic Programming Companies 0 - 6 months Microsoft 2 Q Hint 1 Use dynamic programming. O Hint 2 Let dp[i][j] be the solution for the sub-array from index i to index j. O Hint 3 Notice that if we have S[i] == S[j] one transition could be just dp(i + 1, j + 1) because in the last turn we would have a palindrome and we can extend this palindrome from both sides, the other transitions are not too difficult to deduce. Discussion (3) Copyright © 2024 LeetCode All rights reserved