1182. Shortest Distance to Target Color Premium Medium ♥ Topics ② Companies ۞ Hint You are given an array colors, in which there are three colors: 1, 2 and 3. You are also given some queries. Each query consists of two integers i and c, return the shortest distance between the given index i and the target color c. If there is no solution return -1. Example 1: Input: colors = [1,1,2,1,3,2,2,3,3], queries = [[1,3],[2,2],[6,1]] **Output:** [3,0,3] Explanation: The nearest 3 from index 1 is at index 4 (3 steps away). The nearest 2 from index 2 is at index 2 itself (0 steps away). The nearest 1 from index 6 is at index 3 (3 steps away). Example 2: Input: colors = [1,2], queries = [[0,3]] **Output:** [-1] Explanation: There is no 3 in the array. **Constraints:** • 1 <= colors.length <= 5*10^4 • 1 <= colors[i] <= 3 • 1 <= queries.length <= 5*10^4 • queries[i].length == 2 0 <= queries[i][0] < colors.length • 1 <= queries[i][1] <= 3 Seen this question in a real interview before? 1/5 Yes No Acceptance Rate 55.4% Accepted 36.4K Submissions 65.8K Array Binary Search Dynamic Programming **©** Companies 0 - 6 months Google 2 Q Hint 1 Greedy solution is too slow because of the limits. O Hint 2 Can you solve this problem offline by doing some pre-processing? O Hint 3 Calculate the answers for all indexes moving to their left and to their right. Discussion (2)

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