

Description

Solution

Submissions

Discuss (88)

Python

Autocomplete

1182. Shortest Distance to Target Color

Medium 91 3 Add to List Share

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:

- $1 \leq \text{colors.length} \leq 5 \cdot 10^4$
- $1 \leq \text{colors}[i] \leq 3$
- $1 \leq \text{queries.length} \leq 5 \cdot 10^4$
- $\text{queries}[i].\text{length} == 2$
- $0 \leq \text{queries}[i][0] < \text{colors.length}$
- $1 \leq \text{queries}[i][1] \leq 3$

Accepted 4,701 Submissions 8,845

Seen this question in a real interview before?

Yes

No

Problems

Pick One

< Prev

1182/1444

Next >

Console

Contribute

Run Code

Submit

```
1 class Solution(object):
2     def shortestDistanceColor(self, colors, queries):
3         """
4         :type colors: List[int]
5         :type queries: List[List[int]]
6         :rtype: List[int]
7         """
8
```