265. Paint House II Premium

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There are a row of n houses, each house can be painted with one of the k colors. The cost of painting each house with a certain color is different. You have to paint all the houses such that no two adjacent houses have the same color.

The cost of painting each house with a certain color is represented by an $n \times k$ cost matrix costs.

• For example, costs [0] [0] is the cost of painting house 0 with color 0; costs [1] [2] is the cost of painting house 1 with color 2, and so on...

Return the minimum cost to paint all houses.

Example 1:

```
Input: costs = [[1,5,3],[2,9,4]]
Output: 5
Explanation:
```

Paint house 0 into color 0, paint house 1 into color 2. Minimum cost: 1 + 4 = 5;

Or paint house 0 into color 2, paint house 1 into color 0. Minimum cost: 3 + 2 = 5.

Example 2:

```
Input: costs = [[1,3],[2,4]]
Output: 5
```

Constraints:

- costs.length == n
- costs[i].length == k
- 1 <= n <= 100 • 2 <= k <= 20
- 1 <= costs[i][j] <= 20

Follow up: Could you solve it in 0(nk) runtime?

Yes No

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