

1578. Minimum Time to Make Rope Colorful

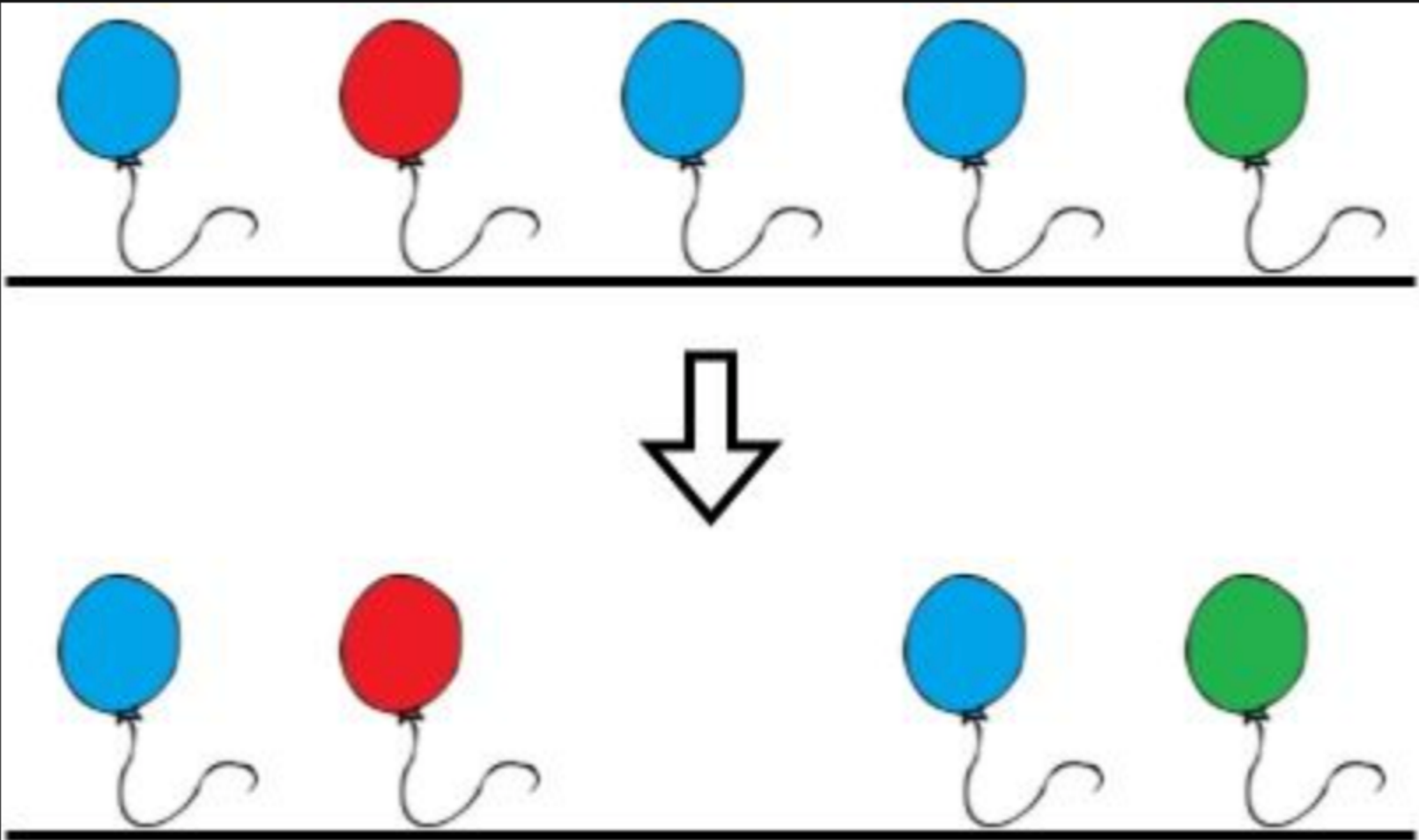
Description

Alice has `n` balloons arranged on a rope. You are given a **0-indexed** string `colors` where `colors[i]` is the color of the `ith` balloon.

Alice wants the rope to be **colorful**. She does not want **two consecutive balloons** to be of the same color, so she asks Bob for help. Bob can remove some balloons from the rope to make it **colorful**. You are given a **0-indexed** integer array `neededTime` where `neededTime[i]` is the time (in seconds) that Bob needs to remove the `ith` balloon from the rope.

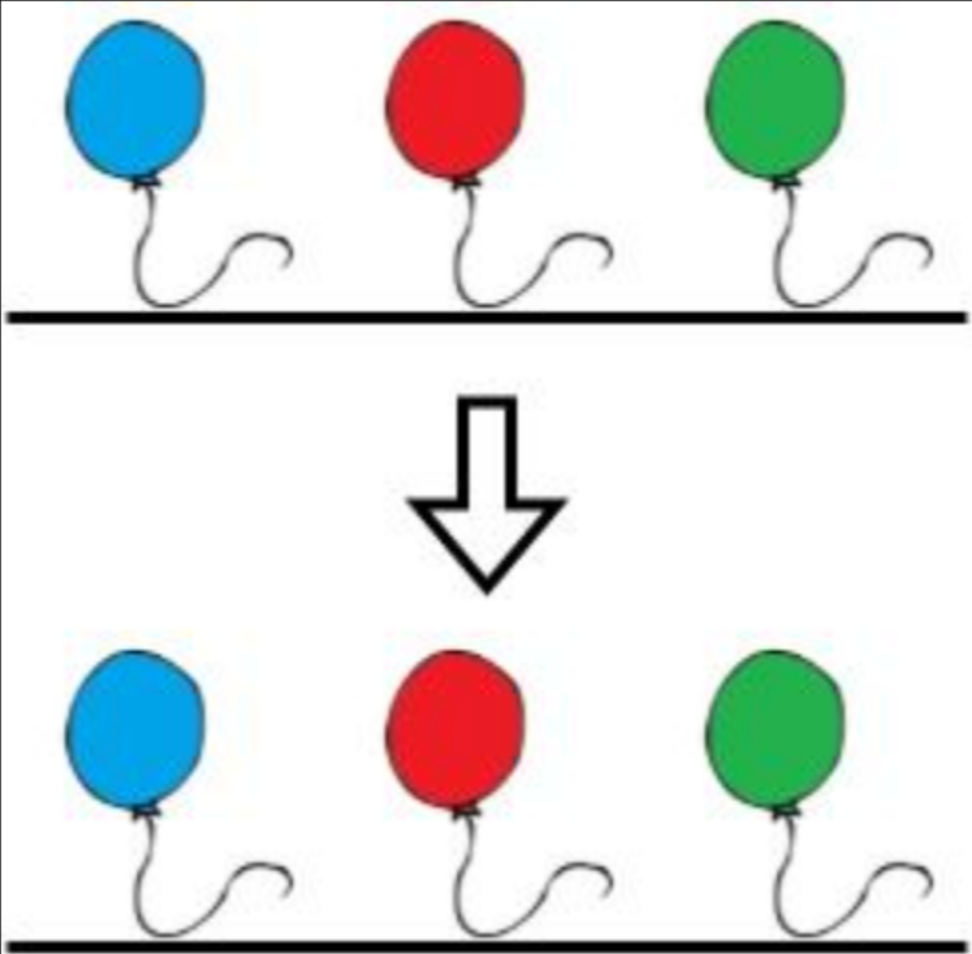
Return *the minimum time Bob needs to make the rope colorful*.

Example 1:



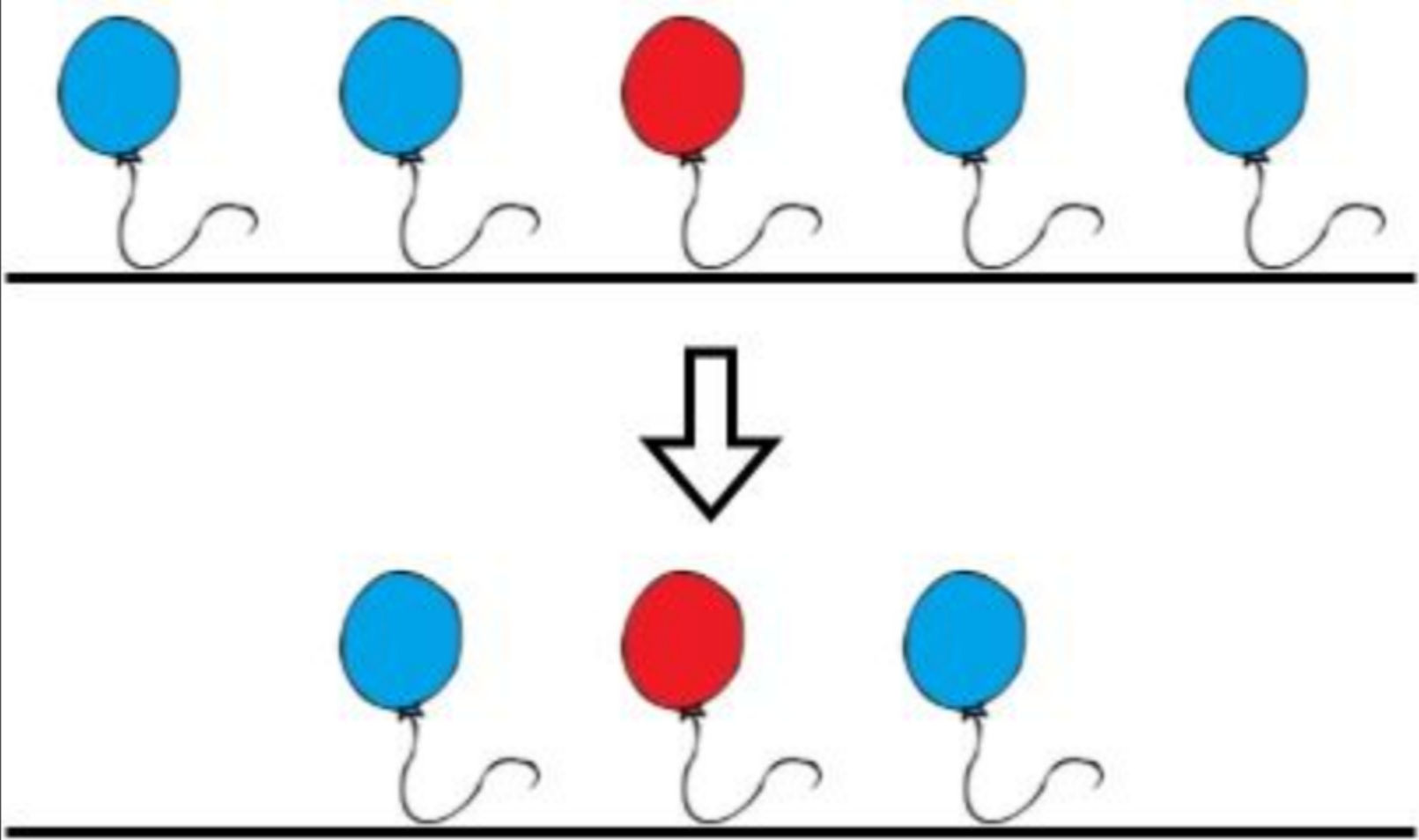
Input: `colors = "abaac", neededTime = [1,2,3,4,5]`
Output: 3
Explanation: In the above image, 'a' is blue, 'b' is red, and 'c' is green. Bob can remove the blue balloon at index 2. This takes 3 seconds. There are no longer two consecutive balloons of the same color. Total time = 3.

Example 2:



Input: `colors = "abc", neededTime = [1,2,3]`
Output: 0
Explanation: The rope is already colorful. Bob does not need to remove any balloons from the rope.

Example 3:



Input: `colors = "aabaa", neededTime = [1,2,3,4,1]`
Output: 2
Explanation: Bob will remove the balloons at indices 0 and 4. Each balloons takes 1 second to remove. There are no longer two consecutive balloons of the same color. Total time = 1 + 1 = 2.

Constraints:

- `n == colors.length == neededTime.length`
- `1 <= n <= 105`
- `1 <= neededTime[i] <= 104`
- `colors` contains only lowercase English letters.

