5930. Two Furthest Houses With Different Colors

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There are `n` houses evenly lined up on the street, and each house is beautifully painted. You are given a **0-indexed** integer array `colors` of length `n`, where `colors[i]` represents the color of the i^{th} house.

Return *the **maximum** distance between **two** houses with **different** colors*.

The distance between the i^{th} and j^{th} houses is `abs(i - j)`, where `abs(x)` is the **absolute value** of `x`.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Easy

Example 1:


```
Input: colors = [1,1,1,6,1,1,1]
Output: 3
Explanation: In the above image, color 1 is blue, and color 6 is red.
The furthest two houses with different colors are house 0 and house 3.
House 0 has color 1, and house 3 has color 6. The distance between them is abs(0 - 3) = 3.
Note that houses 3 and 6 can also produce the optimal answer.
```

Example 2:


```
Input: colors = [1,8,3,8,3]
Output: 4
Explanation: In the above image, color 1 is blue, color 8 is yellow, and color 3 is green.

The furthest two houses with different colors are house 0 and house 4.
House 0 has color 1, and house 4 has color 3. The distance between them is abs(0 - 4) = 4.
```

Example 3:

```
Input: colors = [0,1]
Output: 1
Explanation: The furthest two houses with different colors are house 0 and house 1.
House 0 has color 0, and house 1 has color 1. The distance between them is abs(0 - 1) = 1.
```

Constraints:

- `n == colors.length`
- `2 <= n <= 100`
- `0 <= colors[i] <= 100`
- Test data are generated such that **at least** two houses have different colors.

JavaScript

```
const maxDistance = (a) => {
    let n = a.length, res = 0;
    for (let i = 0; i < n; i++) {
        for (let j = n - 1; j > i; j--) {
            if (a[i] != a[j]) {
```

```
                res = Math.max(res, j - i);
                break;
            }
        }
    }
    return res;
};
```

Custom Testcase | Use Example Testcases

Run | Submit

Submission Result: Accepted (/submissions/detail/590259916/) | More Details > (/submissions/detail/590259916/)

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