5940. Removing Minimum and Maximum From Array

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You are given a **0-indexed** array of **distinct** integers `nums`.

There is an element in `nums` that has the **lowest** value and an element that has the **highest** value. We call them the **minimum** and **maximum** respectively. Your goal is to remove **both** these elements from the array.

A **deletion** is defined as either removing an element from the **front** of the array or removing an element from the **back** of the array.

Return *the **minimum** number of deletions it would take to remove **both** the minimum and maximum element from the array.*

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

Example 1:

```
Input: nums = [2,10,7,5,4,1,8,6]
Output: 5
Explanation:
The minimum element in the array is nums[5], which is 1.
The maximum element in the array is nums[1], which is 10.
We can remove both the minimum and maximum by removing 2 elements from the front and 3 elements from the back.
This results in 2 + 3 = 5 deletions, which is the minimum number possible.
```

Example 2:

```
Input: nums = [0,-4,19,1,8,-2,-3,5]
Output: 3
Explanation:
The minimum element in the array is nums[1], which is -4.
The maximum element in the array is nums[2], which is 19.
We can remove both the minimum and maximum by removing 3 elements from the front.
This results in only 3 deletions, which is the minimum number possible.
```

Example 3:

```
Input: nums = [101]
Output: 1
Explanation:
There is only one element in the array, which makes it both the minimum and maximum element.
We can remove it with 1 deletion.
```

Constraints:

- `1 <= nums.length <= 10^5`
- `-10^5 <= nums[i] <= 10^5`
- The integers in `nums` are **distinct**.

JavaScript

```
const mi = Math.min, mx = Math.max;
const minimumDeletions = (a) => {
    let n = a.length, m = new Map(), min = Number.MAX_SAFE_INTEGER, max = Number.MIN_SAFE_INTEGER;
    for (let i = 0; i < n; i++) {
        min = mi(min, a[i]);
        max = mx(max, a[i]);
        m.set(a[i], i);
    }
```

```
    // pr(min, max);
    let si = m.get(min), li = m.get(max), l = mi(si, li), r = mx(si, li);
    // pr(l, r);
    let bothLeft = r + 1, bothRight = n - l;
    let oneLeftOneRight = l + 1 + n - r;
    // pr("bothLeft", bothLeft, "bothRight", bothRight, "oneLeftOneRight", oneLeftOneRight);
    return mi(bothLeft, bothRight, oneLeftOneRight);
};
```

Custom Testcase Use Example Testcases

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