

5876. Sum of Beauty in the Array

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You are given a **0-indexed** integer array `nums`. For each index `i` ($1 \leq i \leq \text{nums.length} - 2$) the **beauty** of `nums[i]` equals:

- 2, if `nums[j] < nums[i] < nums[k]`, for **all** $0 \leq j < i$ and for **all** $i < k \leq \text{nums.length} - 1$.
- 1, if `nums[i - 1] < nums[i] < nums[i + 1]`, and the previous condition is not satisfied.
- 0, if none of the previous conditions holds.

Return the **sum of beauty** of all `nums[i]` where $1 \leq i \leq \text{nums.length} - 2$.

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

Example 1:

Input: `nums = [1,2,3]`
Output: 2
Explanation: For each index `i` in the range $1 \leq i \leq 1$:
– The beauty of `nums[1]` equals 2.

Example 2:

Input: `nums = [2,4,6,4]`
Output: 1
Explanation: For each index `i` in the range $1 \leq i \leq 2$:
– The beauty of `nums[1]` equals 1.
– The beauty of `nums[2]` equals 0.

Example 3:

Input: `nums = [3,2,1]`
Output: 0
Explanation: For each index `i` in the range $1 \leq i \leq 1$:
– The beauty of `nums[1]` equals 0.

Constraints:

- $3 \leq \text{nums.length} \leq 10^5$
- $1 \leq \text{nums}[i] \leq 10^5$

JavaScript

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```
1 const sumOfBeauties = (a) => {
2   let n = a.length;
3   let left = Array(n).fill(true), right = Array(n).fill(true);
4   let max = a[0];
5   for (let i = 1; i < n - 1; i++) {
6     left[i] = a[i] > max;
7     max = Math.max(max, a[i]);
8   }
9   let min = a[n - 1];
10  for (let i = n - 2; i >= 1; i--) {
11    right[i] = a[i] < min;
```

```
12     min = Math.min(min, a[i]);
13 }
14 // pr(left)
15 // pr(right)
16 let res = 0;
17 for (let i = 1; i < n - 1; i++) {
18     if (left[i] && right[i]) {
19         res += 2;
20         continue;
21     }
22     if (a[i] > a[i - 1] && a[i] < a[i + 1]) {
23         res++;
24         continue;
25     }
26 }
27 return res;
28 };
```

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