

## 5832. Array With Elements Not Equal to Average of Neighbors

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You are given a **0-indexed** array `nums` of **distinct** integers. You want to rearrange the elements in the array such that every element in the rearranged array is **not** equal to the **average** of its neighbors.

More formally, the rearranged array should have the property such that for every `i` in the range `1 <= i < nums.length - 1`,  $(\text{nums}[i-1] + \text{nums}[i+1]) / 2$  is **not** equal to `nums[i]`.

Return **any** rearrangement of `nums` that meets the requirements.

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

### Example 1:

**Input:** `nums = [1,2,3,4,5]`

**Output:** `[1,2,4,5,3]`

**Explanation:**

When `i=1`, `nums[i] = 2`, and the average of its neighbors is  $(1+4) / 2 = 2.5$ .

When `i=2`, `nums[i] = 4`, and the average of its neighbors is  $(2+5) / 2 = 3.5$ .

When `i=3`, `nums[i] = 5`, and the average of its neighbors is  $(4+3) / 2 = 3.5$ .

### Example 2:

**Input:** `nums = [6,2,0,9,7]`

**Output:** `[9,7,6,2,0]`

**Explanation:**

When `i=1`, `nums[i] = 7`, and the average of its neighbors is  $(9+6) / 2 = 7.5$ .

When `i=2`, `nums[i] = 6`, and the average of its neighbors is  $(7+2) / 2 = 4.5$ .

When `i=3`, `nums[i] = 2`, and the average of its neighbors is  $(6+0) / 2 = 3$ .

### Constraints:

- `3 <= nums.length <= 105`
- `0 <= nums[i] <= 105`

JavaScript



```
1 const stin = (a) => a.sort((x, y) => x - y);
2 const swap = (a, i, j) => [a[i], a[j]] = [a[j], a[i]];
3 const rearrangeArray = (a) => {
4   let n = a.length;
5   stin(a);
6   for (let i = 1; i + 1 < n; i += 2) {
7     swap(a, i, i + 1);
8   }
9   // pr(test(a));
10  return a;
11 };
```

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