

Problem List

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### 3667. Sort Array By Absolute Value Premium

Easy | Topics | Hint

You are given an integer array `nums`.

Rearrange elements of `nums` in **non-decreasing** order of their absolute value.

Return **any** rearranged array that satisfies this condition.

**Note:** The absolute value of an integer `x` is defined as:

- `x` if `x >= 0`
- `-x` if `x < 0`

**Example 1:**

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

Output: `[-1,1,3,-4,5]`

Explanation:

- The absolute values of elements in `nums` are 3, 1, 4, 1, 5 respectively.
- Rearranging them in increasing order, we get 1, 1, 3, 4, 5.
- This corresponds to `[-1, 1, 3, -4, 5]`. Another possible rearrangement is `[1, -1, 3, -4, 5]`.

**Example 2:**

Input: `nums = [-100,100]`

Output: `[-100,100]`

Explanation:

- The absolute values of elements in `nums` are 100, 100 respectively.
- Rearranging them in increasing order, we get 100, 100.
- This corresponds to `[-100, 100]`. Another possible rearrangement is `[100, -100]`.

**Constraints:**

- `1 <= nums.length <= 100`
- `-100 <= nums[i] <= 100`

Seen this question in a real interview before? 1/5

Yes No

Accepted 997/1.2K | Acceptance Rate 85.1%

Topics

Hint 1

Discussion (2)

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6 2 0 Online

Code

Python3 | Auto

```
1 class Solution:
2     def sortByAbsoluteValue(self, nums: List[int]) -> List[int]:
3
4         return sorted(nums, key=lambda x: abs(x))
5
6
```

Saved | Ln 6, Col 9

Testcase | Test Result

You must run your code first