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Description Editorial Solutions Submissions

3667. Sort Array By Absolute Value Solved

Easy 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 $x \geq 0$
- $-x$ 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:

- $1 \leq \text{nums.length} \leq 100$
- $-100 \leq \text{nums}[i] \leq 100$

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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Code

Python3

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

Saved

Testcase Test Result

You must run your code first