Problem 2567: Minimum Score by Changing Two Elements

Problem Information

Difficulty: Medium
Acceptance Rate: 49.59%
Paid Only: No
Tags: Array, Greedy, Sorting

Problem Description

You are given an integer array `nums`.

* The **low** score of `nums` is the **minimum** absolute difference between any two integers. * The **high** score of `nums` is the **maximum** absolute difference between any two integers. * The **score** of `nums` is the sum of the **high** and **low** scores.

Return the **minimum score** after **changing two elements** of `nums`.

Example 1:

Input: nums = [1,4,7,8,5]

Output: 3

Explanation:

* Change `nums[0]` and `nums[1]` to be 6 so that `nums` becomes [6,6,7,8,5]. * The low score is the minimum absolute difference: |6 - 6| = 0. * The high score is the maximum absolute difference: |8 - 5| = 3. * The sum of high and low score is 3.

Example 2:

Input: nums = [1,4,3]

Output: 0

Explanation:

* Change `nums[1]` and `nums[2]` to 1 so that `nums` becomes [1,1,1]. * The sum of maximum absolute difference and minimum absolute difference is 0.

Constraints:

* `3 <= nums.length <= 105` * `1 <= nums[i] <= 109`

Code Snippets

C++:

```
class Solution {
public:
int minimizeSum(vector<int>& nums) {

}
};
```

Java:

```
class Solution {
public int minimizeSum(int[] nums) {

}
}
```

Python3:

```
class Solution:
def minimizeSum(self, nums: List[int]) -> int:
```