Problem 1300: Sum of Mutated Array Closest to Target

Problem Information

Difficulty: Medium
Acceptance Rate: 45.88%
Paid Only: No
Tags: Array, Binary Search, Sorting

Problem Description

Given an integer array `arr` and a target value `target`, return the integer `value` such that when we change all the integers larger than `value` in the given array to be equal to `value`, the sum of the array gets as close as possible (in absolute difference) to `target`.

In case of a tie, return the minimum such integer.

Notice that the answer is not neccesarilly a number from `arr`.

Example 1:

Input: arr = [4,9,3], target = 10 **Output:** 3 **Explanation:** When using 3 arr converts to [3, 3, 3] which sums 9 and that's the optimal answer.

Example 2:

Input: arr = [2,3,5], target = 10 **Output:** 5

Example 3:

Input: arr = [60864,25176,27249,21296,20204], target = 56803 **Output:** 11361

Constraints:

* `1 <= arr.length <= 104` * `1 <= arr[i], target <= 105`

Code Snippets

C++:

```
class Solution {
public:
int findBestValue(vector<int>& arr, int target) {

}
};
```

Java:

```
class Solution {
public int findBestValue(int[] arr, int target) {

}
}
```

Python3:

```
class Solution:
def findBestValue(self, arr: List[int], target: int) -> int:
```