

2448. Minimum Cost to Make Array Equal

Hint ⓘ

Hard



2.2K

28



Companies

You are given two **0-indexed** arrays `nums` and `cost` consisting each of `n` **positive** integers.

You can do the following operation **any** number of times:

- Increase or decrease **any** element of the array `nums` by `1`.

The cost of doing one operation on the `ith` element is `cost[i]`.

Return *the **minimum** total cost such that all the elements of the array `nums` become **equal**.*

Example 1:

Input: `nums = [1,3,5,2]`, `cost = [2,3,1,14]`

Output: 8

Explanation: We can make all the elements equal to 2 in the following way:

- Increase the 0th element one time. The cost is 2.
- Decrease the 1st element one time. The cost is 3.
- Decrease the 2nd element three times. The cost is $1 + 1 + 1 = 3$.

The total cost is $2 + 3 + 3 = 8$.

It can be shown that we cannot make the array equal with a smaller cost.

Example 2:

Input: `nums = [2,2,2,2,2]`, `cost = [4,2,8,1,3]`

Output: 0

Explanation: All the elements are already equal, so no operations are needed.

Constraints:

- `n == nums.length == cost.length`
- `1 <= n <= 105`
- `1 <= nums[i], cost[i] <= 106`
- Test cases are generated in a way that the output doesn't exceed $2^{53}-1$

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Yes No

Discussion (77)

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