

Problem 1775: Equal Sum Arrays With Minimum Number of Operations

Problem Information

Difficulty: Medium

Acceptance Rate: 54.44%

Paid Only: No

Tags: Array, Hash Table, Greedy, Counting

Problem Description

You are given two arrays of integers `nums1` and `nums2`, possibly of different lengths. The values in the arrays are between `1` and `6`, inclusive.

In one operation, you can change any integer's value in **any** of the arrays to **any** value between `1` and `6`, inclusive.

Return **_the minimum number of operations required to make the sum of values in_`nums1` _equal to the sum of values in_`nums2` _._** Return **`-1`** if it is not possible to make the sum of the two arrays equal.

Example 1:

Input: nums1 = [1,2,3,4,5,6], nums2 = [1,1,2,2,2,2] **Output:** 3 **Explanation:** You can make the sums of nums1 and nums2 equal with 3 operations. All indices are 0-indexed. - Change nums2[0] to 6. nums1 = [1,2,3,4,5,6], nums2 = [6,1,2,2,2,2]. - Change nums1[5] to 1. nums1 = [1,2,3,4,5,1], nums2 = [6,1,2,2,2,2]. - Change nums1[2] to 2. nums1 = [1,2,2,4,5,1], nums2 = [6,1,2,2,2,2].

Example 2:

Input: nums1 = [1,1,1,1,1,1,1], nums2 = [6] **Output:** -1 **Explanation:** There is no way to decrease the sum of nums1 or to increase the sum of nums2 to make them equal.

Example 3:

****Input:**** nums1 = [6,6], nums2 = [1] ****Output:**** 3 ****Explanation:**** You can make the sums of nums1 and nums2 equal with 3 operations. All indices are 0-indexed. - Change nums1[0] to 2. nums1 = [2,6], nums2 = [1]. - Change nums1[1] to 2. nums1 = [2,2], nums2 = [1]. - Change nums2[0] to 4. nums1 = [2,2], nums2 = [4].

****Constraints:****

* `1 <= nums1.length, nums2.length <= 105` * `1 <= nums1[i], nums2[i] <= 6`

Code Snippets

C++:

```
class Solution {
public:
    int minOperations(vector<int>& nums1, vector<int>& nums2) {
        }
};
```

Java:

```
class Solution {
    public int minOperations(int[] nums1, int[] nums2) {
        }
}
```

Python3:

```
class Solution:
    def minOperations(self, nums1: List[int], nums2: List[int]) -> int:
```