Problem 2535: Difference Between Element Sum and Digit Sum of an Array

Problem Information

Difficulty: Easy
Acceptance Rate: 85.22%
Paid Only: No
Tags: Array, Math

Problem Description

You are given a positive integer array `nums`.

* The **element sum** is the sum of all the elements in `nums`. * The **digit sum** is the sum of all the digits (not necessarily distinct) that appear in `nums`.

Return _the**absolute** difference between the **element sum** and **digit sum** of _`nums`.

Note that the absolute difference between two integers `x` and `y` is defined as `|x - y|`.

Example 1:

Input: nums = [1,15,6,3] **Output:** 9 **Explanation:** The element sum of nums is 1 + 15 + 6 + 3 = 25. The digit sum of nums is 1 + 1 + 5 + 6 + 3 = 16. The absolute difference between the element sum and digit sum is |25 - 16| = 9.

Example 2:

Input: nums = [1,2,3,4] **Output:** 0 **Explanation:** The element sum of nums is 1 + 2 + 3 + 4 = 10. The digit sum of nums is 1 + 2 + 3 + 4 = 10. The absolute difference between the element sum and digit sum is |10 - 10| = 0.

Constraints:

* `1 <= nums.length <= 2000` * `1 <= nums[i] <= 2000`

Code Snippets

C++:

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

}
};
```

Java:

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

}
}
```

Python3:

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