

6291. Difference Between Element Sum and Digit Sum of an Array

My Submissions (/contest/weekly-contest-328/problems/difference-between-element-sum-and-digit-sum-of-an-array/submissions/)

Back to Contest (/contest/weekly-contest-328/)

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 $|x - y|$.

User Accepted: 0

User Tried: 0

Total Accepted: 0

Total Submissions: 0

Difficulty: Easy

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:

- $1 \leq \text{nums.length} \leq 2000$
- $1 \leq \text{nums}[i] \leq 2000$

JavaScript

📄

↺

⚙️

```
1 const sumOfDigit = (x) => { let s = x + '', res = 0; for (const c of s) res += c - '0'; return res; };
2
3 const differenceOfSum = (a) => {
4   let x = 0, y = 0;
5   for (const e of a) {
6     x += e;
7     y += sumOfDigit(e);
8   }
9   return Math.abs(x - y);
10  };
```

Use Example Testcases

☐ Custom Testcase

 Run

 Submit


Submission Result: **Accepted** (/submissions/detail/878330745/) ⓘ

More Details > (/submissions/detail/878330745/)

Share your acceptance!

Copyright © 2023 LeetCode

[Help Center \(/support\)](#) | [Jobs \(/jobs\)](#) | [Bug Bounty \(/bugbounty\)](#) | [Online Interview \(/interview/\)](#) | [Students \(/student\)](#) | [Terms \(/terms\)](#) | [Privacy Policy \(/privacy\)](#)

 [United States \(/region\)](#)