

# 3153. Sum of Digit Differences of All Pairs

Solved ●

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You are given an array `nums` consisting of **positive** integers where all integers have the **same** number of digits.

The **digit difference** between two integers is the *count* of different digits that are in the **same** position in the two integers.

Return the **sum** of the **digit differences** between **all** pairs of integers in `nums`.

## Example 1:

**Input:** `nums = [13,23,12]`

**Output:** 4

### Explanation:

We have the following:

- The digit difference between **13** and **23** is 1.
- The digit difference between **13** and **12** is 1.
- The digit difference between **23** and **12** is 2.

So the total sum of digit differences between all pairs of integers is  $1 + 1 + 2 = 4$ .

## Example 2:

**Input:** `nums = [10,10,10,10]`

**Output:** 0

### Explanation:

All the integers in the array are the same. So the total sum of digit differences between all pairs of integers will be 0.

## Constraints:

- $2 \leq \text{nums.length} \leq 10^5$
- $1 \leq \text{nums}[i] < 10^9$
- All integers in `nums` have the same number of digits.

Seen this question in a real interview before? 1/5

Yes No

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Hint 1



Hint 2



Hint 3



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