Problem 2815: Max Pair Sum in an Array

Problem Information

Difficulty: Easy
Acceptance Rate: 59.94%
Paid Only: No
Tags: Array, Hash Table

Problem Description

You are given an integer array `nums`. You have to find the **maximum** sum of a pair of numbers from `nums` such that the **largest digit** in both numbers is equal.

For example, 2373 is made up of three distinct digits: 2, 3, and 7, where 7 is the largest among them.

Return the **maximum** sum or -1 if no such pair exists.

Example 1:

Input: nums = [112,131,411]

Output: -1

Explanation:

Each numbers largest digit in order is [2,3,4].

Example 2:

Input: nums = [2536,1613,3366,162]

Output: 5902

Explanation:

All the numbers have 6 as their largest digit, so the answer is 2536 + 3366 = 5902.

Example 3:

Input: nums = [51,71,17,24,42]

Output: 88

Explanation:

Each number's largest digit in order is [5,7,7,4,4].

So we have only two possible pairs, 71 + 17 = 88 and 24 + 42 = 66.

Constraints:

* `2 <= nums.length <= 100` * `1 <= nums[i] <= 104`

Code Snippets

C++:

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

}
};
```

Java:

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

}
}
```

Python3:

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