Problem 3300: Minimum Element After Replacement With Digit Sum

Problem Information

Difficulty: Easy
Acceptance Rate: 84.34%
Paid Only: No
Tags: Array, Math

Problem Description

You are given an integer array `nums`.

You replace each element in `nums` with the **sum** of its digits.

Return the **minimum** element in `nums` after all replacements.

Example 1:

Input: nums = [10,12,13,14]

Output: 1

Explanation:

`nums` becomes `[1, 3, 4, 5]` after all replacements, with minimum element 1.

Example 2:

Input: nums = [1,2,3,4]

Output: 1

Explanation:

`nums` becomes `[1, 2, 3, 4]` after all replacements, with minimum element 1.

Example 3:

Input: nums = [999,19,199]

Output: 10

Explanation:

`nums` becomes `[27, 10, 19]` after all replacements, with minimum element 10.

Constraints:

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

Code Snippets

C++:

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

}
};
```

Java:

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

}
}
```

Python3:

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