

100262. Find the Sum of Encrypted Integers

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[Back to Contest \(/contest/biweekly-contest-126/\)](#)

You are given an integer array `nums` containing **positive** integers. We define a function `encrypt` such that `encrypt(x)` replaces **every** digit in `x` with the **largest** digit in `x`. For example, `encrypt(523) = 555` and `encrypt(213) = 333`.

Return the **sum** of encrypted elements.

User Accepted:	20500
User Tried:	21472
Total Accepted:	21756
Total Submissions:	31199
Difficulty:	Easy

Example 1:

Input: `nums = [1,2,3]`
Output: 6
Explanation: The encrypted elements are `[1,2,3]`. The sum of encrypted elements is `1 + 2 + 3 == 6`.

Example 2:

Input: `nums = [10,21,31]`
Output: 66
Explanation: The encrypted elements are `[11,22,33]`. The sum of encrypted elements is `11 + 22 + 33 == 66`.

Constraints:

- `1 <= nums.length <= 50`
- `1 <= nums[i] <= 1000`

Java

```
1 class Solution {
2     public int sumOfEncryptedInt(int[] nums) {
3         int sum = 0;
4         for (int num : nums) {
5             int encrypted = encrypt(num);
6             sum += encrypted;
7         }
8         return sum;
9     }
10    public static int encrypt(int x) {
11        int largestDigit = findLargestDigit(x);
12        int encrypted = 0;
13        int pow = 1;
14        while (x > 0) {
15            encrypted += largestDigit * pow;
16            pow *= 10;
17            x /= 10;
18        }
19        return encrypted;
20    }
21
22    public static int findLargestDigit(int x) {
23        int maxDigit = 0;
24        while (x > 0) {
25            int digit = x % 10;
26            maxDigit = Math.max(maxDigit, digit);
27            x /= 10;
28        }
29        return maxDigit;
30    }
31 }
```

☐ Custom Testcase

Use Example Testcases

 Run

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