

# Problem 2442: Count Number of Distinct Integers After Reverse Operations

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 80.96%

**Paid Only:** No

**Tags:** Array, Hash Table, Math, Counting

## Problem Description

You are given an array `nums` consisting of \*\*positive\*\* integers.

You have to take each integer in the array, \*\*reverse its digits\*\* , and add it to the end of the array. You should apply this operation to the original integers in `nums` .

Return \_the number of\*\*distinct\*\* integers in the final array\_.

**Example 1:**

**Input:** nums = [1,13,10,12,31] **Output:** 6 **Explanation:** After including the reverse of each number, the resulting array is [1,13,10,12,31,\_1,31,1,21,13\_]. The reversed integers that were added to the end of the array are underlined. Note that for the integer 10, after reversing it, it becomes 01 which is just 1. The number of distinct integers in this array is 6 (The numbers 1, 10, 12, 13, 21, and 31).

**Example 2:**

**Input:** nums = [2,2,2] **Output:** 1 **Explanation:** After including the reverse of each number, the resulting array is [2,2,2,\_2,2,2\_]. The number of distinct integers in this array is 1 (The number 2).

**Constraints:**

\* `1 <= nums.length <= 105` \* `1 <= nums[i] <= 106`

## Code Snippets

### C++:

```
class Solution {
public:
    int countDistinctIntegers(vector<int>& nums) {
        }
    };
}
```

### Java:

```
class Solution {
    public int countDistinctIntegers(int[] nums) {
        }
    }
}
```

### Python3:

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