Problem #645: Set Mismatch (Easy)

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<https://leetcode.com/problems/set-mismatch/>

My Solution:

Runtime beats 97.52%

<https://leetcode.com/problems/set-mismatch/discuss/1091057/Simple-Python-3-Solution-Runtime-beats-97.52>

1. Let n be the length of nums array.

2. Make nums into a set thereby eliminating the repeated number. Find the sum of this set and call it total\_set\_nums.

3. The repeated number is the difference between sum of the elements in nums array and the total\_set\_nums. The missing number is obtained by finding the difference of the sum of the first n natural numbers and the total\_set\_num.

Note: The sum of the first n natural numbers = n \* (n+1)//2

(use integer division)

4. Return the repeated number and the missing number as an array.

class Solution:

def findErrorNums(self, nums: List[int]) -> List[int]:

n = len(nums)

total\_set\_nums = sum(set(nums))

return [sum(nums) - total\_set\_nums, (n\*(n+1)//2) - total\_set\_nums ]

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