**Problem #2670: Find the Distinct Difference Array. (Easy)**

<https://leetcode.com/problems/find-the-distinct-difference-array/description/>

**My Solution:**

1. Let n be the length of nums
2. If n is 1, then return a list with element 1.
3. Initialize res to an empty list.
4. Iterate through nums using a for loop with I in range of length of nums.

For each iteration, let prefix be the length of the set of the slice of nums from index 0 to (i+1) and suffix be the length of the set of the slice of nums from index (I + 1) to n,

Take the difference between prefix and suffix and append this to res.

1. Return res.

class Solution:

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

n = len(nums)

if n == 1:

return [1]

res = []

for i in range(len(nums)):

prefix = len(set(nums[0: i + 1]))

suffix = len(set(nums[i + 1: n]))

res.append(prefix - suffix)

return res