

	Description	Submitted Code Python	Notes	Time	Space	Submitted Code JavaScript	Notes	Time	Space
202. Happy Number (EZ)	<p>Description</p> <p>Write an algorithm to determine if a number n is happy.</p> <p>A happy number is a number defined by the following process:</p> <p>Starting with any positive integer, replace the number by the sum of the squares of its digits.</p> <p>Repeat the process until the number equals 1 (where it will stay), or it loops endlessly in a cycle which does not include 1. Those numbers for which the process ends in 1 are happy.</p> <p>Return true if n is a happy number, and false if not.</p> <p>Example 1:</p> <pre>Input: n = 19 Output: true Explanation: 1² + 9² = 82 8² + 2² = 68 6² + 8² = 100 1² + 0² + 0² = 1 Example 2:</pre> <pre>Input: n = 2 Output: false Explanation: Given an integer array nums, return true if any value appears at least twice in the array, and return false if every element is distinct.</pre> <p>Example 1:</p> <pre>Input: nums = [1,2,3,1] Output: true Example 2:</pre> <pre>Input: nums = [1,2,3,4] Output: false Example 3:</pre> <pre>Input: nums = [1,1,1,3,3,4,2,4] Output: true</pre> <p>Given an integer num, repeatedly add all its digits until the result has only one digit, and return it.</p> <p>Example 1:</p> <pre>Input: num = 38 Output: 2 Explanation: The process is 38 -> 3 + 8 -> 11 11 -> 1 + 1 -> 2 Since 2 has only one digit, return it. Example 2:</pre> <pre>Input: num = 0 Output: 0</pre> <p>Constraints:</p> <pre>0 <= num <= 2³¹ - 1</pre>	<pre>class Solution: def isHappy(self, n: int) -> bool: seen = set() while n != 1 and n not in seen: seen.add(n) digit_sum = 0 for digit in str(n): digit = int(digit) ** 2 digit_sum += digit n = digit_sum return n == 1 def sumOfSquares(self, num: int) -> int: n = num seen = set() while n != 1 and n not in seen: seen.add(n) digit_sum = 0 for digit in str(n): digit_sum += int(digit) ** 2 n = digit_sum return n == 1</pre>	<ul style="list-style-type: none"> -Created a seen set (does not allow for duplicates) -While loop to check if 1 or n is NOT in seen -Add n to seen -INT digit_sum -separate digit from number -if n == 1 -increment digit_sum with the new digits -Make n digit sum -Check if happy 	35 ms / 18.48%	16 mb / 80%	<pre>* @param {number[]} nums * @return {boolean} var containsDuplicate = function(nums) { let seen = new Set(); for (let num of nums) { if (seen.has(num)) { return true; } seen.add(num); } return false; };</pre>	<ul style="list-style-type: none"> - Define a function named 'containsDuplicate' that takes an array 'nums' as an argument. - Create a new 'Set' called 'seen' to store unique numbers encountered in the array. - Start a loop 'for' loop to iterate over each element in the array 'nums'. - Check if the 'num' element already contains in the current element 'seen'. - If the current element 'num' is found in the 'Set', return 'true' to indicate a duplicate exists. - If the current element 'num' is not found in the 'Set', add it to the 'Set'. - Close the loop. - If the loop completes without finding any duplicates, return 'false' to indicate no duplicates were found. - Close the function definition. 	68 ms / 52.84%	65.12 mb / 22.82%
217. Contains Duplicate (EZ)	<p>Given an integer array nums, repeatedly add all its digits until the result has only one digit, and return it.</p> <p>Example 1:</p> <pre>Input: num = 38 Output: 2 Explanation: The process is 38 -> 3 + 8 -> 11 11 -> 1 + 1 -> 2 Since 2 has only one digit, return it. Example 2:</pre> <pre>Input: num = 0 Output: 0</pre> <p>Constraints:</p> <pre>0 <= num <= 2³¹ - 1</pre>	<pre>class Solution: def addDigits(self, num: int) -> int: n = num seen = set() while n != 1 and n not in seen: seen.add(n) digit_sum = 0 for digit in str(n): digit_sum += int(digit) n = digit_sum return n == 1</pre>	<ul style="list-style-type: none"> -INT n as num -While loop the check if n is greater than or equal to 10 (multiple digits) and is not in the set -Add the number to the set -INT digit_sum -increment digit_sum with the new digits -Make n digit sum -Check if less than ten digits 	448 ms / 13.1%	28.10 mb / 68.89%	<pre>class Solution: def addDigits(self, num: int) -> int: while num >= 10: digit_sum = 0 for digit in str(num): digit_sum += int(digit) num = digit_sum return num</pre>	<ul style="list-style-type: none"> -INT n as num -While loop the check if n is greater than or equal to 10 (multiple digits) and is not in the set -Add the number to the set -INT digit_sum -increment digit_sum with the new digits -Make n digit sum -Check if less than ten digits 	34 ms / 70.56%	15.52 mb / 58.82%
258. Add Digits (EZ)	<p>Follow up: Could you do it without any loop/recursion in O(1) runtime?</p> <p>You have a long flowerbed in which some of the plots are planted, and some are not. However, flowers cannot be planted in adjacent plots.</p> <p>Given an integer array flowerbed containing 0's and 1's, where 0 means empty and 1 means not empty, and an integer n, return true if n new flowers can be planted in the flowerbed without violating the no-adjacent flowers rule and false otherwise.</p> <p>Example 1:</p> <pre>Input: flowerbed = [1,0,0,0,1], n = 1 Output: true Example 2:</pre> <pre>Input: flowerbed = [1,0,0,0,1], n = 2 Output: false</pre> <p>Constraints:</p> <pre>1 <= flowerbed.length <= 2 * 10⁴ flowerbed[i] is 0 or 1 There are no two adjacent flowers in flowerbed. 0 <= n <= flowerbed.length</pre> <p>Given two strings s and t, return true if t is an anagram of s, and false otherwise.</p> <p>An Anagram is a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once.</p> <p>Example 1:</p> <pre>Input: s = "anagram", t = "nagaram" Output: true Example 2:</pre> <pre>Input: s = "rat", t = "car" Output: false</pre> <p>Constraints:</p> <pre>s == t.length, t.length == 5 * 10⁴ s and t consist of lowercase English letters.</pre>	<pre>class Solution: def canPlaceFlowers(self, flowerbed: List[int], n: int) -> bool: flowers = 0 while i < len(flowerbed): if flowerbed[i] == 0 and (i == 0 or flowerbed[i-1] == 0) and (i == len(flowerbed)-1 or flowerbed[i+1] == 0): flowers += 1 flowerbed[i] = 1 i += 1 else: i += 1 return flowers == n</pre>	<ul style="list-style-type: none"> -INT flowers as 0 -INT i (position) as 0 -While i is less than the length of the flower bed go to next line of notes -If i is 0 then that length (that the current position is the first position in the array) is 0 and if after is the last position in the array (i == len(flowerbed) - 1) or flowerbed[i-1] == 0 and flowerbed[i+1] == 0 -If true make position of array i -Add increment flower by 1 -And increment position by 1 -Return true if flowers are equal to n 	135 ms / 39.44%	15.86 mb / 13.02%	<pre>class Solution: def isAnagram(self, s: str, t: str) -> bool: seen_s = {} seen_t = {} for char in s: seen_s[char] = seen_s.get(char, 0) + 1 for char in t: seen_t[char] = seen_t.get(char, 0) + 1 return seen_s == seen_t</pre>	<ul style="list-style-type: none"> -INT both arrays for s and t -Iterate through the list, if the current element 'seen_s' does not equal 0 -If the current element 'seen_s' is not equal to 0, move it to the current insert position and increment the insert position pointer. -Check if arrays are same length before going further -Add characters of sorted strings to each array -If the arrays are equal return true 	54 ms / 32.40%	15.44 mb / 14.91%
242. Valid Anagram (EZ)	<p>Follow up: What if the inputs contain Unicode characters? How would you adapt your solution to such a case?</p> <p>Given an integer array nums, move all 0's to the end of it while maintaining the relative order of the non-zero elements.</p> <p>Note that you must do this in-place without making a copy of the array.</p> <p>Example 1:</p> <pre>Input: nums = [0,1,0,3,12] Output: [1,3,12,0,0]</pre> <p>Example 2:</p> <pre>Input: nums = [0] Output: [0]</pre> <p>Constraints:</p> <pre>1 <= nums.length <= 10⁴ -2³¹ <= nums[i] <= 2³¹ - 1</pre>	<pre>class Solution: def moveZeroes(self, nums: List[int]) -> None: insert_pos = 0 for num in nums: if num != 0: nums[insert_pos] = num insert_pos += 1 while insert_pos < len(nums): nums[insert_pos] = 0 insert_pos += 1</pre>	<ul style="list-style-type: none"> -Initiate a pointer to keep track of the position to insert non-zero elements -Iterate through the list, if the current element 'num' does not equal 0 -If the current element 'num' is not equal to 0, move it to the current insert position and increment the insert position pointer. -Check if arrays are same length before going further -Add characters of sorted strings to each array -If the arrays are equal return true 	118 ms / 90.91%	15.03 mb / 79.27%	<pre>class Solution: def moveZeroes(self, nums: List[int]) -> None: insert_pos = 0 for num in nums: if num != 0: nums[insert_pos] = num insert_pos += 1 while insert_pos < len(nums): nums[insert_pos] = 0 insert_pos += 1</pre>	<ul style="list-style-type: none"> -Initiate a pointer to keep track of the position to insert non-zero elements -Iterate through the list, if the current element 'num' does not equal 0 -If the current element 'num' is not equal to 0, move it to the current insert position and increment the insert position pointer. -Check if arrays are same length before going further -Add characters of sorted strings to each array -If the arrays are equal return true 	54 ms / 32.40%	15.44 mb / 14.91%
283. Move Zeroes (EZ)	<p>Follow up: Could you minimize the total number of operations done?</p> <p>A sequence of numbers is called an arithmetic progression if the difference between any two consecutive elements is the same.</p> <p>Given an array of numbers arr, return true if the array can be rearranged to form an arithmetic progression. Otherwise, return false.</p> <p>Example 1:</p> <pre>Input: arr = [3,5,1] Output: true Explanation: We can reorder the elements as [1,3,5] with differences 2 and -2 respectively between each consecutive elements. Example 2:</pre> <pre>Input: arr = [1,2,4] Output: false Explanation: There is no way to reorder the elements to obtain an arithmetic progression.</pre> <p>Constraints:</p> <pre>2 <= arr.length <= 1000 -100 <= arr[i] <= 100</pre> <p>Given a string s, reverse only all the vowels in the string and return it.</p> <p>The vowels are 'a', 'e', 'i', 'o', and 'u', and they can appear in both lower and upper cases, more than once.</p> <p>Example 1:</p> <pre>Input: s = "hello" Output: "holle" Example 2:</pre> <pre>Input: s = "leetcode" Output: "leotcede"</pre> <p>Constraints:</p> <pre>s <= length <= 3 * 10⁵ s consist of printable ASCII characters.</pre>	<pre>class Solution: def isArithmetic(self, arr: List[int]) -> bool: max_val = sorted(arr) min_val = sorted(arr) current_element = None current_count = 0 for num in max_val: if num == current_element: current_count += 1 else: if current_count < max_count: max_count = current_count min_val = sorted(arr) current_element = num current_count = 1 if current_count < max_count: min_val = sorted(arr) current_element = num current_count = 1 return min_val == max_val</pre>	<ul style="list-style-type: none"> -"INT" flowers as 0 -"INT" i (position) as 0 -"WHILE" i is less than the length of the flower bed -If i is 0 then that length (that the current position is the first position in the array) is 0 and if after is the last position in the array (i == len(flowerbed) - 1) or flowerbed[i-1] == 0 and flowerbed[i+1] == 0 -If true make position of array i -Add increment flower by 1 -And increment position by 1 -Return true if flowers are equal to n 	118 ms / 90.91%	15.03 mb / 79.27%	<pre>class Solution: def isArithmetic(self, arr: List[int]) -> bool: max_val = sorted(arr) min_val = sorted(arr) current_element = None current_count = 0 for num in max_val: if num == current_element: current_count += 1 else: if current_count < max_count: max_count = current_count min_val = sorted(arr) current_element = num current_count = 1 if current_count < max_count: min_val = sorted(arr) current_element = num current_count = 1 return min_val == max_val</pre>	<ul style="list-style-type: none"> -"INT" flowers as 0 -"INT" i (position) as 0 -"WHILE" i is less than the length of the flower bed -If i is 0 then that length (that the current position is the first position in the array) is 0 and if after is the last position in the array (i == len(flowerbed) - 1) or flowerbed[i-1] == 0 and flowerbed[i+1] == 0 -If true make position of array i -Add increment flower by 1 -And increment position by 1 -Return true if flowers are equal to n 	118 ms / 90.91%	15.03 mb / 79.27%
1502. Can Make Arithmetic Progression From Sequence (EZ)	<p>The vowels are 'a', 'e', 'i', 'o', and 'u', and they can appear in both lower and upper cases, more than once.</p> <p>Example 1:</p> <pre>Input: s = "hello" Output: "holle" Example 2:</pre> <pre>Input: s = "leetcode" Output: "leotcede"</pre> <p>Constraints:</p> <pre>s <= length <= 3 * 10⁵ s consist of printable ASCII characters.</pre>	<pre>class Solution: def isArithmetic(self, arr: List[int]) -> bool: max_val = sorted(arr) min_val = sorted(arr) current_element = None current_count = 0 for num in max_val: if num == current_element: current_count += 1 else: if current_count < max_count: max_count = current_count min_val = sorted(arr) current_element = num current_count = 1 if current_count < max_count: min_val = sorted(arr) current_element = num current_count = 1 return min_val == max_val</pre>	<ul style="list-style-type: none"> -The 'majorityElement' function takes a list of integers as input. -It sorts the input list using the 'sorted' function and assigns it to the variable 'new'. -It initializes variables to track the most frequent element ('most_frequent_element'), its count ('max_count'), and the current element being processed ('current_element') with their respective counts. -It iterates through the sorted list and updates the count of the current element. -After processing all elements, it returns the most frequent element found in the input list. -The return statement is properly indented outside the loop to ensure it only executes after processing the entire list. 	42 ms / 99.24%	16.75 mb / 22.60%	<pre>class Solution: def isArithmetic(self, arr: List[int]) -> bool: max_val = sorted(arr) min_val = sorted(arr) current_element = None current_count = 0 for num in max_val: if num == current_element: current_count += 1 else: if current_count < max_count: max_count = current_count min_val = sorted(arr) current_element = num current_count = 1 if current_count < max_count: min_val = sorted(arr) current_element = num current_count = 1 return min_val == max_val</pre>	<ul style="list-style-type: none"> -The 'majorityElement' function takes a list of integers as input. -It sorts the input list using the 'sorted' function and assigns it to the variable 'new'. -It initializes variables to track the most frequent element ('most_frequent_element'), its count ('max_count'), and the current element being processed ('current_element') with their respective counts. -It iterates through the sorted list and updates the count of the current element. -After processing all elements, it returns the most frequent element found in the input list. -The return statement is properly indented outside the loop to ensure it only executes after processing the entire list. 	42 ms / 99.24%	16.75 mb / 22.60%
169. Majority Element (EZ)	<p>The vowels are 'a', 'e', 'i', 'o', and 'u', and they can appear in both lower and upper cases, more than once.</p> <p>Example 1:</p> <pre>Input: s = "hello" Output: "holle" Example 2:</pre> <pre>Input: s = "leetcode" Output: "leotcede"</pre> <p>Constraints:</p> <pre>s <= length <= 3 * 10⁵ s consist of printable ASCII characters.</pre>	<pre>class Solution: def isArithmetic(self, arr: List[int]) -> bool: max_val = sorted(arr) min_val = sorted(arr) current_element = None current_count = 0 for num in max_val: if num == current_element: current_count += 1 else: if current_count < max_count: max_count = current_count min_val = sorted(arr) current_element = num current_count = 1 if current_count < max_count: min_val = sorted(arr) current_element = num current_count = 1 return min_val == max_val</pre>	<ul style="list-style-type: none"> -The 'majorityElement' function takes a list of integers as input. -It sorts the input list using the 'sorted' function and assigns it to the variable 'new'. -It initializes variables to track the most frequent element ('most_frequent_element'), its count ('max_count'), and the current element being processed ('current_element') with their respective counts. -It iterates through the sorted list and updates the count of the current element. -After processing all elements, it returns the most frequent element found in the input list. -The return statement is properly indented outside the loop to ensure it only executes after processing the entire list. 	166 ms / 78.05%	15.04 mb / 35.55%	<pre>class Solution: def isArithmetic(self, arr: List[int]) -> bool: max_val = sorted(arr) min_val = sorted(arr) current_element = None current_count = 0 for num in max_val: if num == current_element: current_count += 1 else: if current_count < max_count: max_count = current_count min_val = sorted(arr) current_element = num current_count = 1 if current_count < max_count: min_val = sorted(arr) current_element = num current_count = 1 return min_val == max_val</pre>	<ul style="list-style-type: none"> -The 'majorityElement' function takes a list of integers as input. -It sorts the input list using the 'sorted' function and assigns it to the variable 'new'. -It initializes variables to track the most frequent element ('most_frequent_element'), its count ('max_count'), and the current element being processed ('current_element') with their respective counts. -It iterates through the sorted list and updates the count of the current element. -After processing all elements, it returns the most frequent element found in the input list. -The return statement is properly indented outside the loop to ensure it only executes after processing the entire list. 	166 ms / 78.05%	15.04 mb / 35.55%

