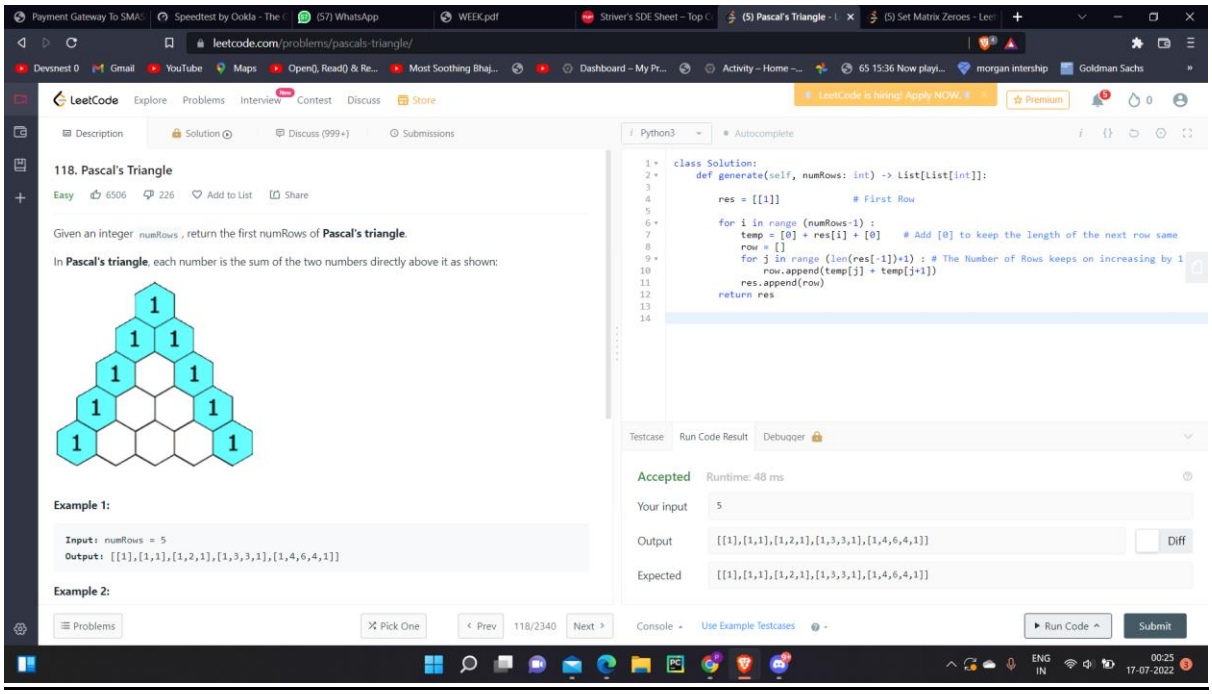
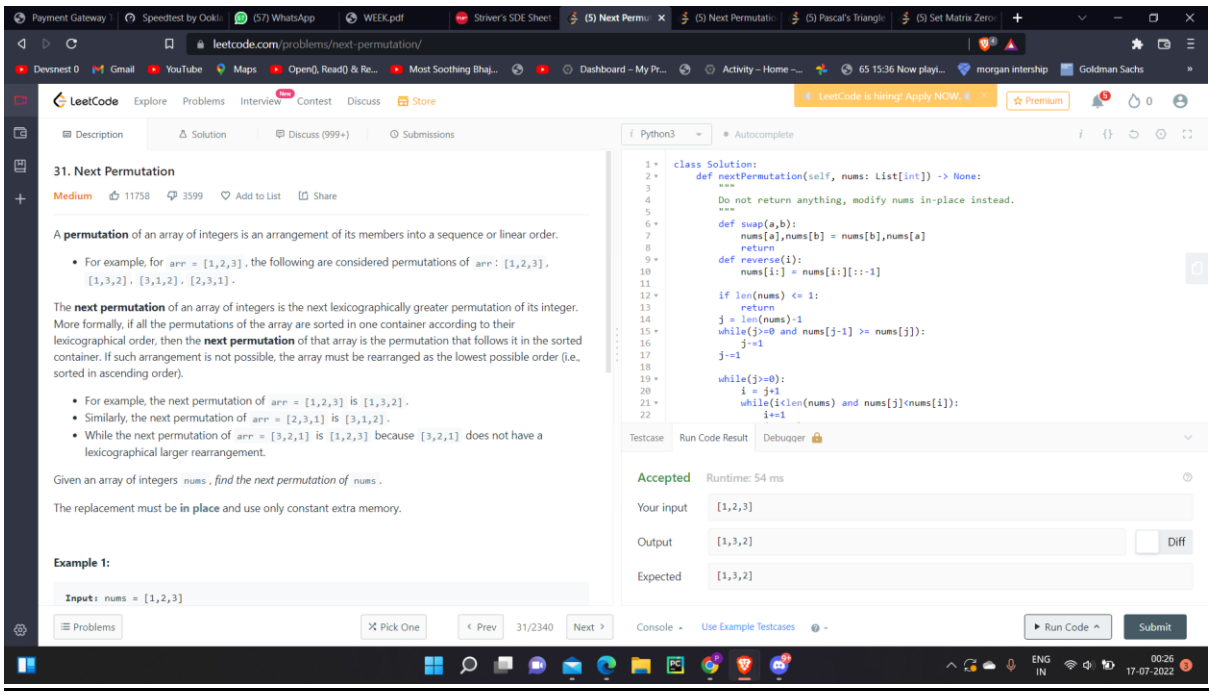
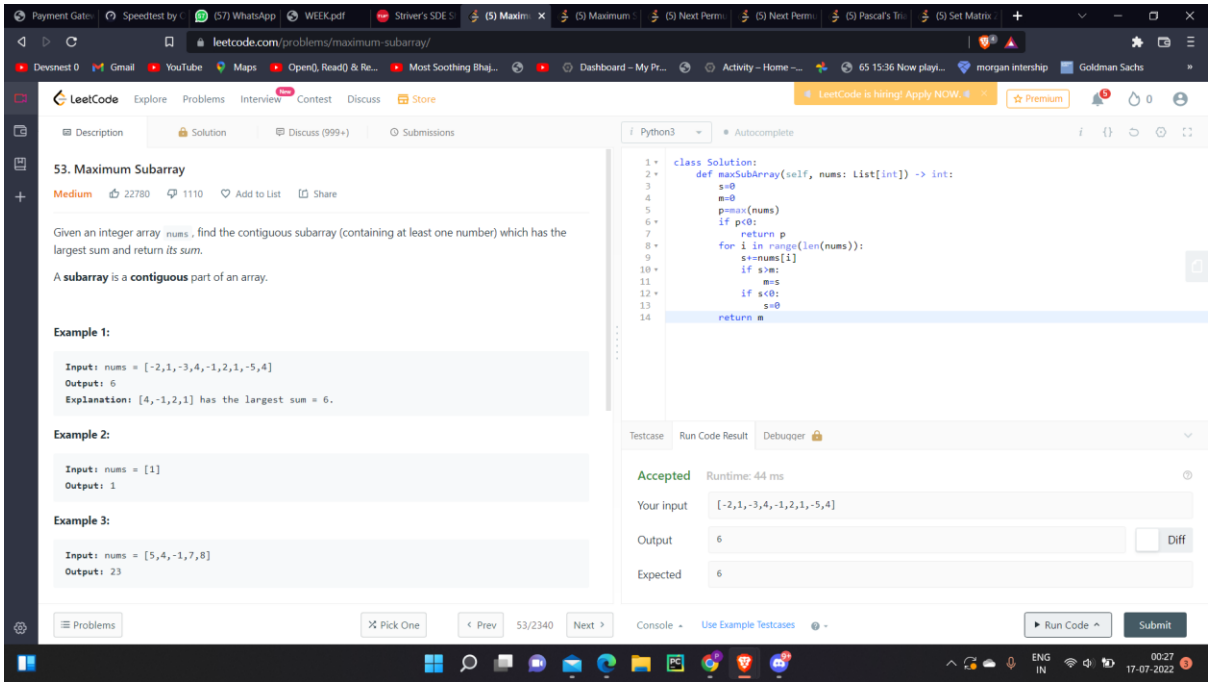
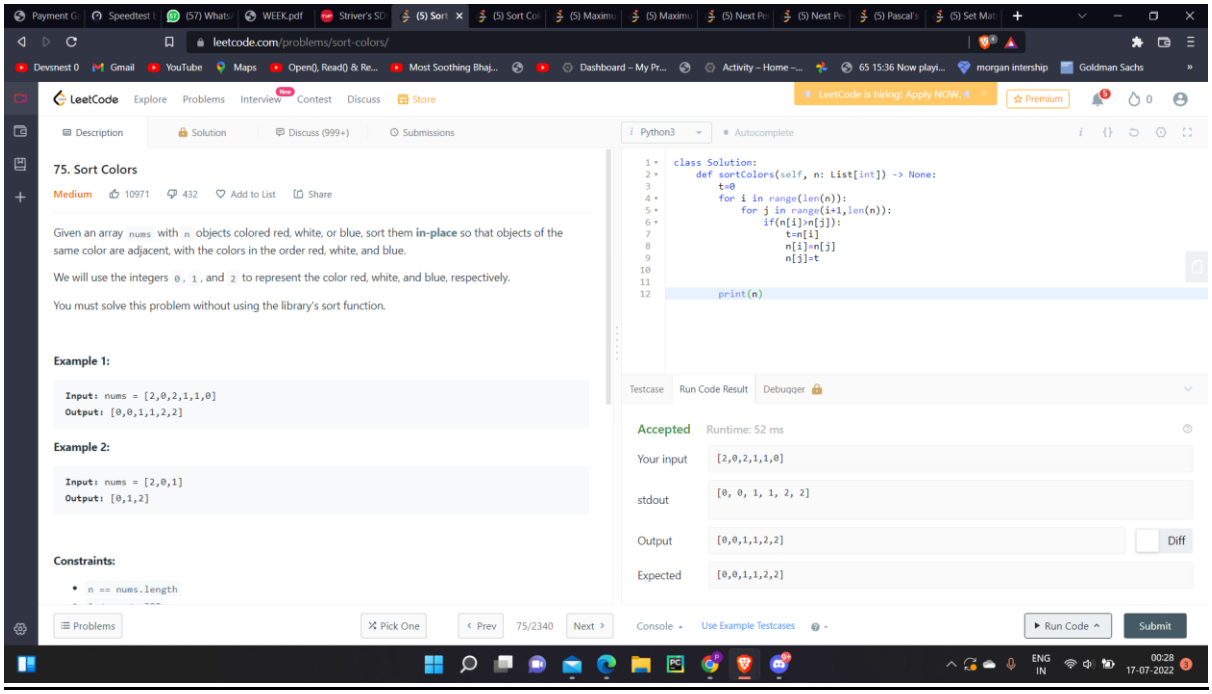
Striver sheet

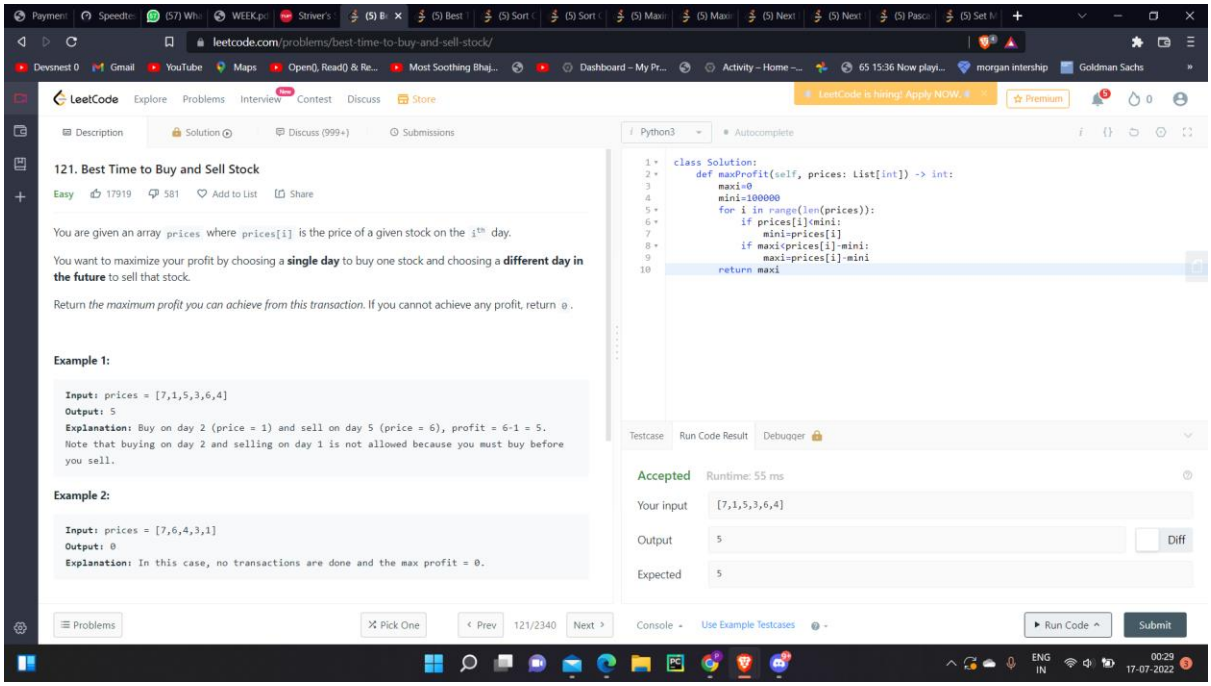
Week 1:

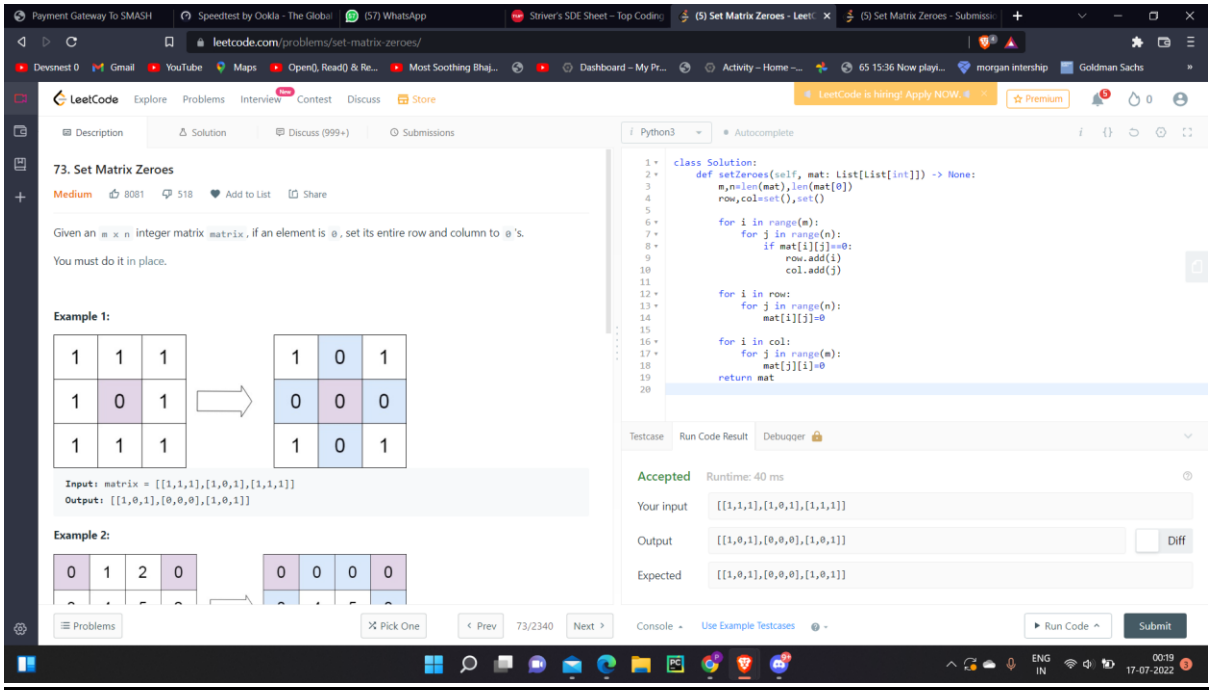





leetcode.com/problems/maximum-subarray/
53. Maximum Subarray
Medium
Given an integer array nums, find the contiguous subarray (containing at least one number) which has the largest sum and return its sum.
A subarray is a contiguous part of an array.
Example 1:
Input: nums = [-2,1,-3,4,-1,2,1,-5,4]
Output: 6
Explanation: [4,-1,2,1] has the largest sum = 6.
Example 2:
Input: nums = [1]
Output: 1
Example 3:
Input: nums = [5,4,-1,7,8]
Output: 23
class Solution:
def maxSubArray(self, nums: List[int]) -> int:
s=0
m=0
p=max(nums)
if p<0:
return p
for i in range(len(nums)):
s+=nums[i]
if s>m:
m=s
if s<0:
s=0
return m
Accepted
Runtime: 44 ms
Your input
[-2,1,-3,4,-1,2,1,-5,4]
Output
6
Expected
6
Diff
Run Code
Submit


leetcode.com/problems/sort-colors/
75. Sort Colors
Medium
Given an array nums with n objects colored red, white, or blue, sort them in-place so that objects of the same color are adjacent, with the colors in the order red, white, and blue.
We will use the integers 0, 1, and 2 to represent the color red, white, and blue, respectively.
You must solve this problem without using the library's sort function.
Example 1:
Input: nums = [2,0,2,1,1,0]
Output: [0,0,1,1,2,2]
Example 2:
Input: nums = [2,0,1]
Output: [0,1,2]
Constraints:
n == nums.length
class Solution:
def sortColors(self, n: List[int]) -> None:
t=0
for i in range(len(n)):
for j in range(i+1,len(n)):
if(n[i]>n[j]):
t=n[i]
n[i]=n[j]
n[j]=t
print(n)
Accepted
Runtime: 52 ms
Your input
[2,0,2,1,1,0]
stdout
[0, 0, 1, 1, 2, 2]
Output
[0,0,1,1,2,2]
Expected
[0,0,1,1,2,2]
Diff
Run Code
Submit


leetcode.com/problems/best-time-to-buy-and-sell-stock/
121. Best Time to Buy and Sell Stock
Easy
You are given an array prices where prices[i] is the price of a given stock on the ith day.
You want to maximize your profit by choosing a single day to buy one stock and choosing a different day in the future to sell that stock.
Return the maximum profit you can achieve from this transaction. If you cannot achieve any profit, return 0.
Example 1:
Input: prices = [7,1,5,3,6,4]
Output: 5
Explanation: Buy on day 2 (price = 1) and sell on day 5 (price = 6), profit = 6-1 = 5.
Note that buying on day 2 and selling on day 1 is not allowed because you must buy before you sell.
Example 2:
Input: prices = [7,6,4,3,1]
Output: 0
Explanation: In this case, no transactions are done and the max profit = 0.
class Solution:
def maxProfit(self, prices: List[int]) -> int:
maxi=0
mini=100000
for i in range(len(prices)):
if prices[i]<mini:
mini=prices[i]
if maxi<prices[i]-mini:
maxi=prices[i]-mini
return maxi
Accepted
Runtime: 55 ms
Your input
[7,1,5,3,6,4]
Output
5
Expected
5
Diff
Run Code
Submit


leetcode.com/problems/set-matrix-zeroes/
73. Set Matrix Zeroes
Medium
Given an m x n integer matrix matrix, if an element is 0, set its entire row and column to 0's.
You must do it in place.
Example 1:
Input: matrix = [[1,1,1],[1,0,1],[1,1,1]]
Output: [[1,0,1],[0,0,0],[1,0,1]]
Example 2:
class Solution:
def setZeroes(self, mat: List[List[int]]) -> None:
m,n=len(mat),len(mat[0])
row,col=set(),set()
for i in range(m):
for j in range(n):
if mat[i][j]==0:
row.add(i)
col.add(j)
for i in row:
for j in range(n):
mat[i][j]=0
for i in col:
for j in range(m):
mat[j][i]=0
return mat
Accepted
Runtime: 40 ms
Your input
[[1,1,1],[1,0,1],[1,1,1]]
Output
[[1,0,1],[0,0,0],[1,0,1]]
Expected
[[1,0,1],[0,0,0],[1,0,1]]
Diff
Run Code
Submit