DSA Assignment – 9th July

Name – Karan Joshi

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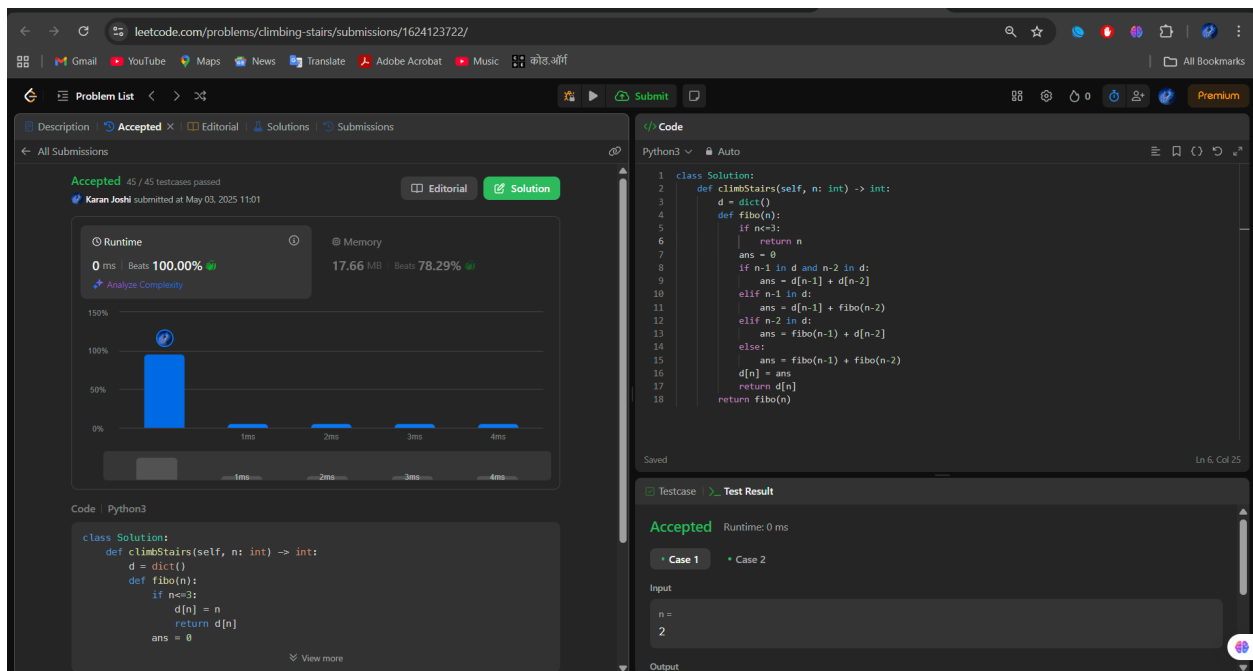
Github Repo Link - https://github.com/KaranJoshi101/urban-octo-robot/

DSA-Section -

Question 1: Climbing Stairs

Platform: LeetCode

Problem Link: https://leetcode.com/problems/climbing-stairs/description/

Submission Screenshot:

Question 2: Subsets

Platform: LeetCode

Problem Link: https://leetcode.com/problems/subsets/description/

Submission Screenshot:
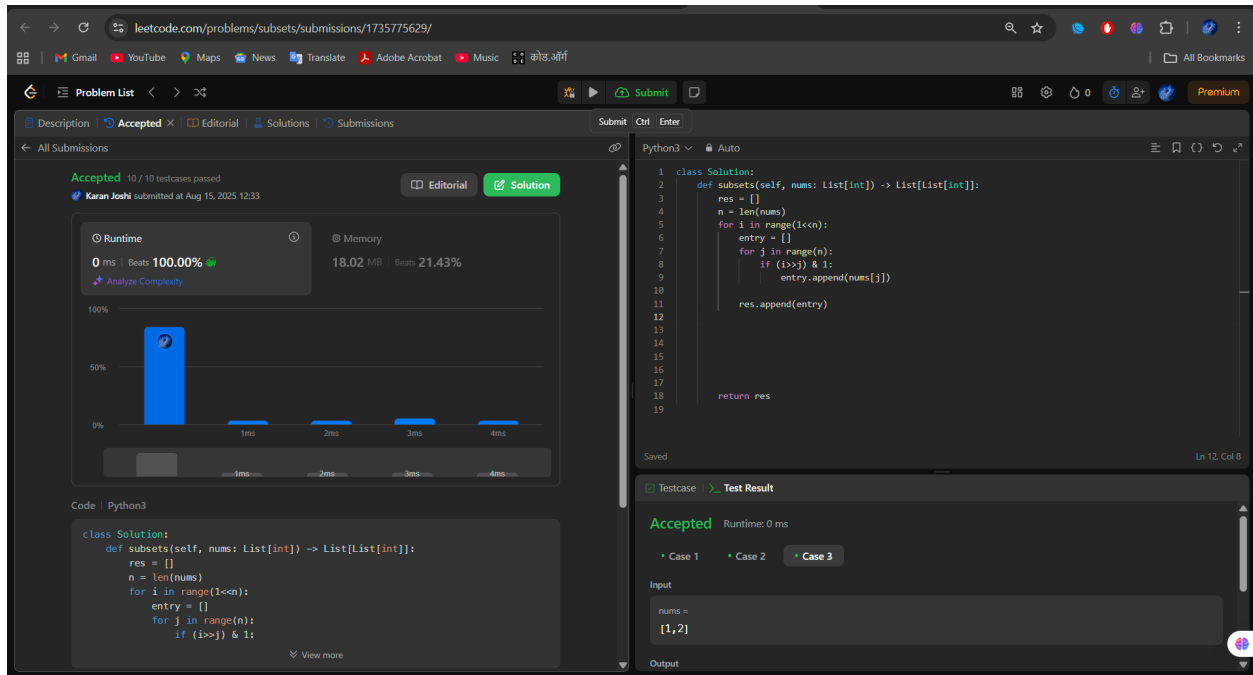
Question 3: House Robber

Platform: LeetCode

Problem Link: https://leetcode.com/problems/house-robber/description/

Submission Screenshot:
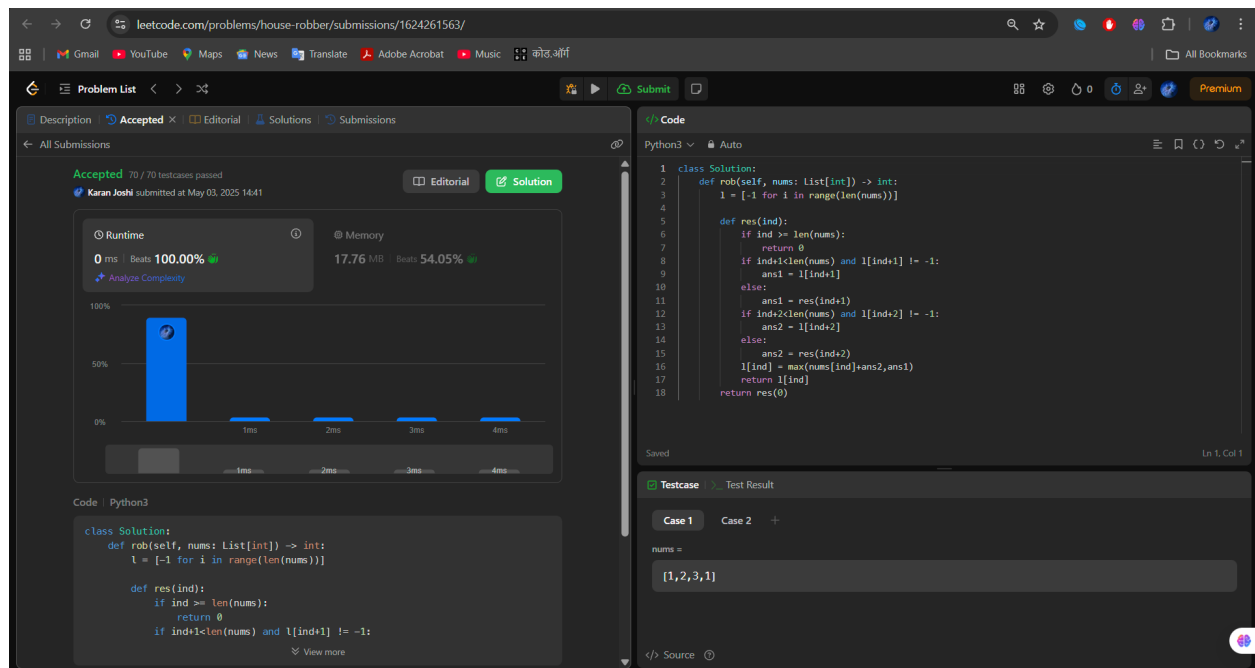
Question 3: House Robber 2

Platform: LeetCode

Problem Link: https://leetcode.com/problems/house-robber-ii/description/

Submission Screenshot:

Problem List

Description | Accepted × | Editorial | Solutions | Submissions

Code

← All Submissions

Accepted 75 / 75 testcases passed

Karan Joshi submitted at May 03, 2025 15:57

Editorial | Solution

⏱ Runtime
0 ms | Beats **100.00%**
✦ Analyze Complexity

▣ Memory
17.71 MB | Beats **59.73%**

100%

50%

0%
        1ms   2ms   3ms   4ms

Code | Python3

```python
class Solution:
    def rob(self, nums: List[int]) -> int:
        if len(nums) == 1:
            return nums[0]
        res1 = [-1 for i in range(len(nums))]
        def zero(ind,bol):
            if ind>=len(nums) or (ind==len(nums)-1 and bol):
                return 0
```

▼ View more

Python3 | 🔒 Auto

```python
class Solution:
    def rob(self, nums: List[int]) -> int:
        if len(nums) == 1:
            return nums[0]
        res1 = [-1 for i in range(len(nums))]
        def zero(ind,bol):
            if ind>=len(nums) or (ind==len(nums)-1 and bol):
                return 0

            if ind+1<len(nums) and res1[ind+1]!=-1:
                ans1 = res1[ind+1]
            else:
                ans1 = zero(ind+1,bol)
            if ind+2<len(nums) and res1[ind+2]!=-1:
                ans2 = res1[ind+2]
            else:
                ans2 = zero(ind+2,bol)
            res1[ind] = max(ans1,nums[ind]+ans2)
            return res1[ind]

        z = zero(0,True)
        res1 = [-1 for i in range(len(nums))]
        return max(z,zero(1,False))
```

Saved   Ln 1, Col 1

☑ Testcase | ⟩ Test Result