

DSA Assignment - 18 June

Name – Shwetank Tripathi

Roll.No - 22/11/EE/038

LeetCode Id – dumbledore_001

GeekforGeeks – dumbledore_001

Github Repo Link - /Shwetank-Tripathi/Practice

DSA- Section -

Question 1: Two Sum

Platform: LeetCode

Link: <https://leetcode.com/problems/two-sum/>

Submission Screenshot:

The screenshot shows a LeetCode submission for the 'Two Sum' problem. The submission is accepted, with 63/63 test cases passed. The user is Shwetank Tripathi, who submitted the solution on June 19, 2025, at 15:19. The runtime is 62 ms, and the memory usage is 14.13 MB. The code is in C++ and uses a nested loop to find two numbers that sum to the target.

```
1 class Solution {
2 public:
3     vector<int> twoSum(vector<int>& nums, int target) {
4         vector<int> ans(2);
5         for(int i=0; i<nums.size(); i++){
6             for(int j=i+1; j<nums.size(); j++){
7                 if(nums[i]+nums[j]==target){
8                     ans[0]=i;
9                     ans[1]=j;
10                }
11            }
12        }
13        return ans;
14    }
15};
```

Question 2: Alone in Couple

Platform: GeeksforGeeks

Link: <https://www.geeksforgeeks.org/problems/alone-in-couple5507/0>

Submission Screenshot:

The screenshot shows a GeeksforGeeks submission for the 'Alone in Couple' problem. The submission is successful, with 1111/1111 test cases passed. The user has attempted 2/3 times, and the accuracy is 66%. The time taken is 0.61 seconds. The code is in C++ and uses a linear search to find the first element that is not in a couple.

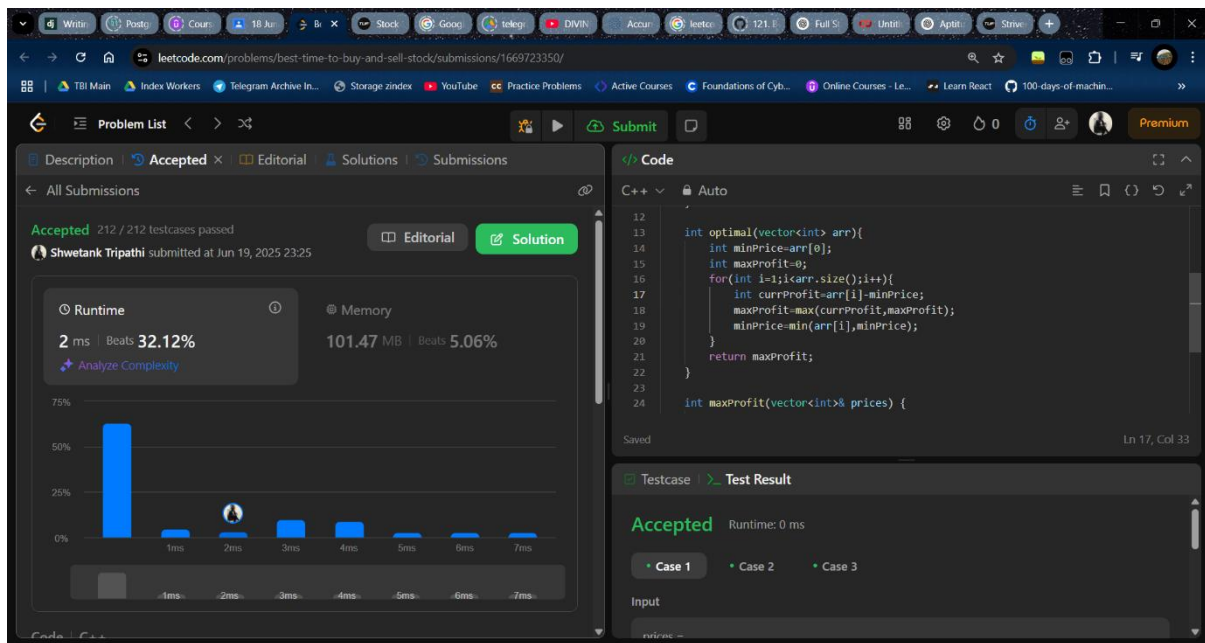
```
1 // user function template for c++
2
3 class Solution {
4 public:
5     int findSingle(vector<int> &arr) {
6         // code here
7         int x=0;
8         for(int i=0; i<arr.size(); i++){
9             x^=arr[i];
10        }
11        return x;
12    }
13};
```

Question 3: Best Time to Buy and Sell Stock

o Platform: LeetCode

o Link: <https://leetcode.com/problems/best-time-to-buy-and-sell-stock/>

Submission Screenshot:



Question 4: Sort Colors

o Platform: LeetCode

o Link: <https://leetcode.com/problems/sort-colors/>

Submission Screenshot:

