**Algorithmic Problem Solving [17ECSE309]**

**15 Days of DS - Submission**

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**SRN:** 01fe20bcs145

**School:**  **CS**

**15 Days of DS**

Marks: 05

Platform: Various Platforms

A 15 days challenge where each day you need to do an assigned task. You need to complete this before 04 March 2023. Final submission will be made via email and will have intermediate submissions on various other platforms.

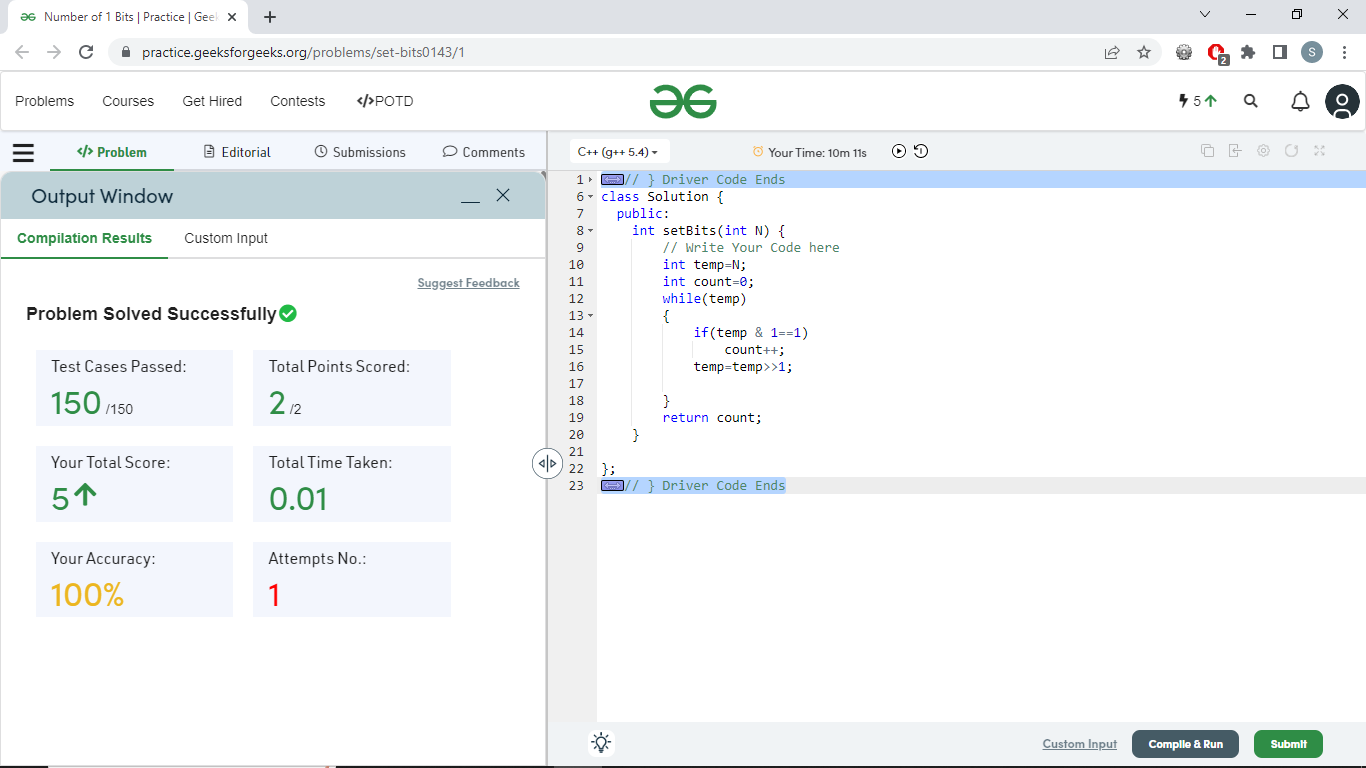
**Day 01 Task**

Solve count Set Bits in an Integer problem

<https://practice.geeksforgeeks.org/problems/set-bits0143/1>

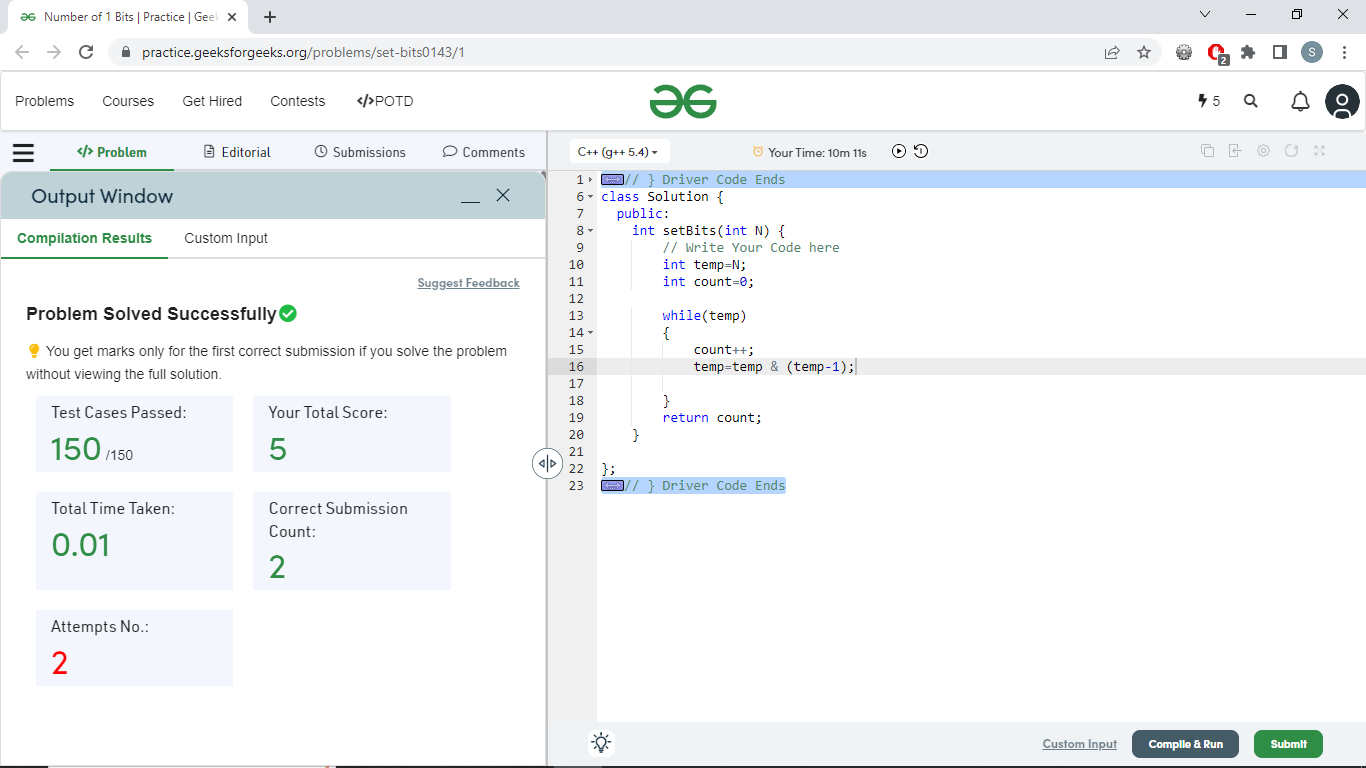
Approach1:

Checking for the last bit



Approach 2:

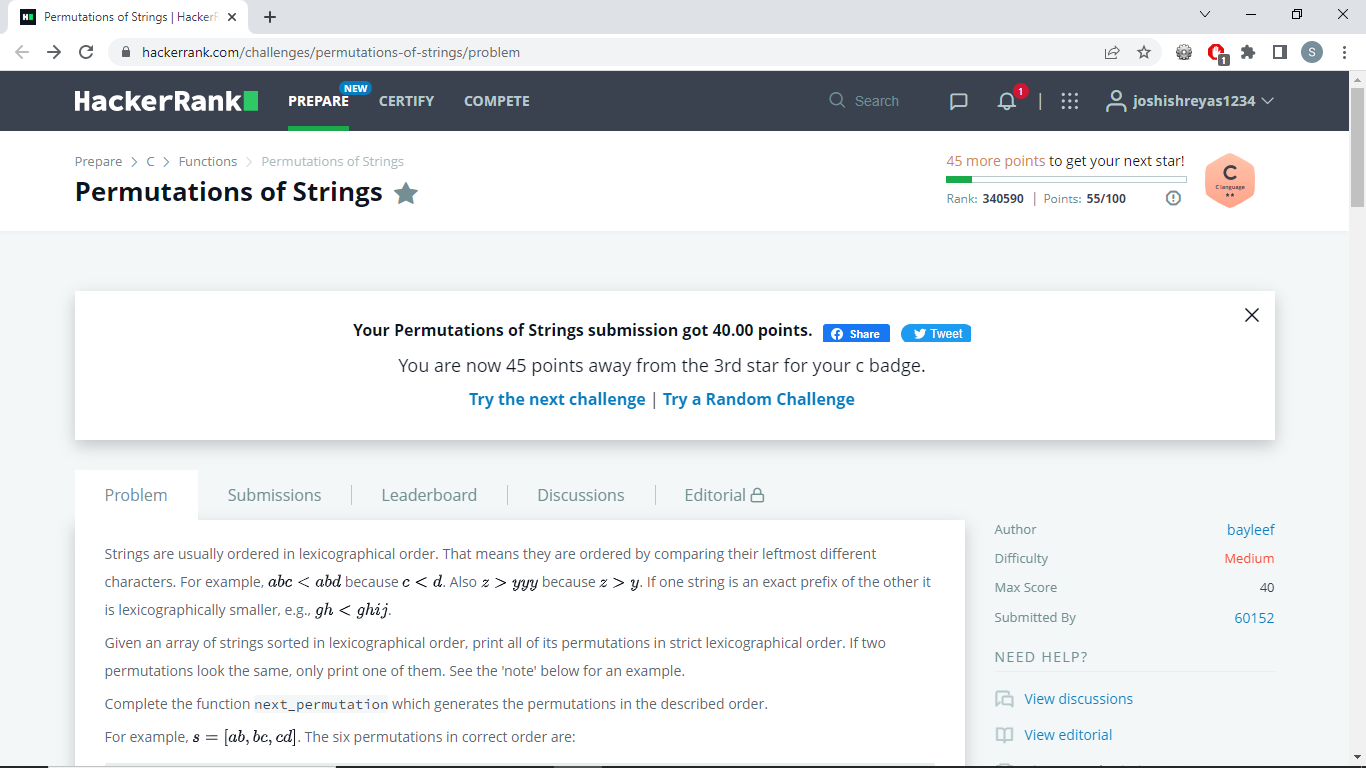
**Brian Kernighan’s Algorithm**



**Day 02 Task**

Complete the problem Permutations of Strings

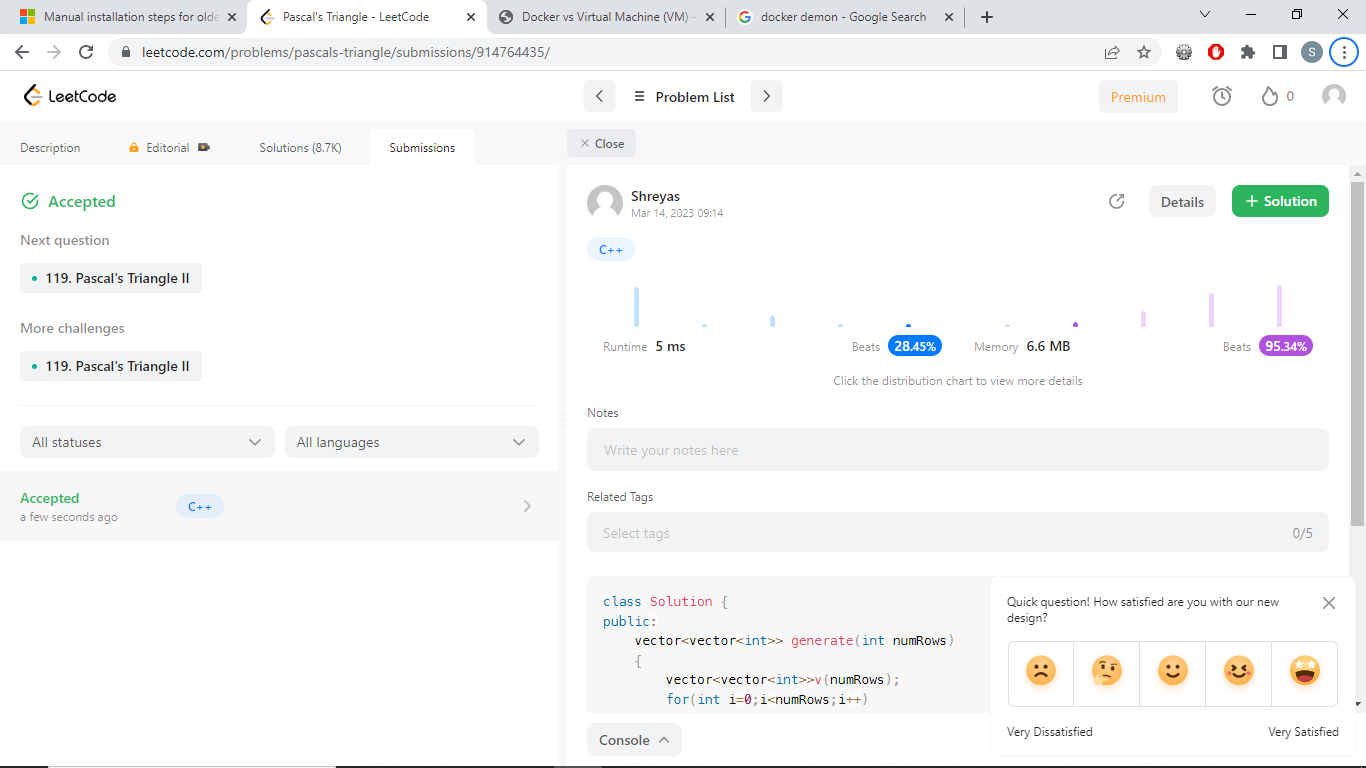
<https://www.hackerrank.com/challenges/permutations-of-strings/>



**Day 03 Task**

Solve the Pascal’s Triangle problem

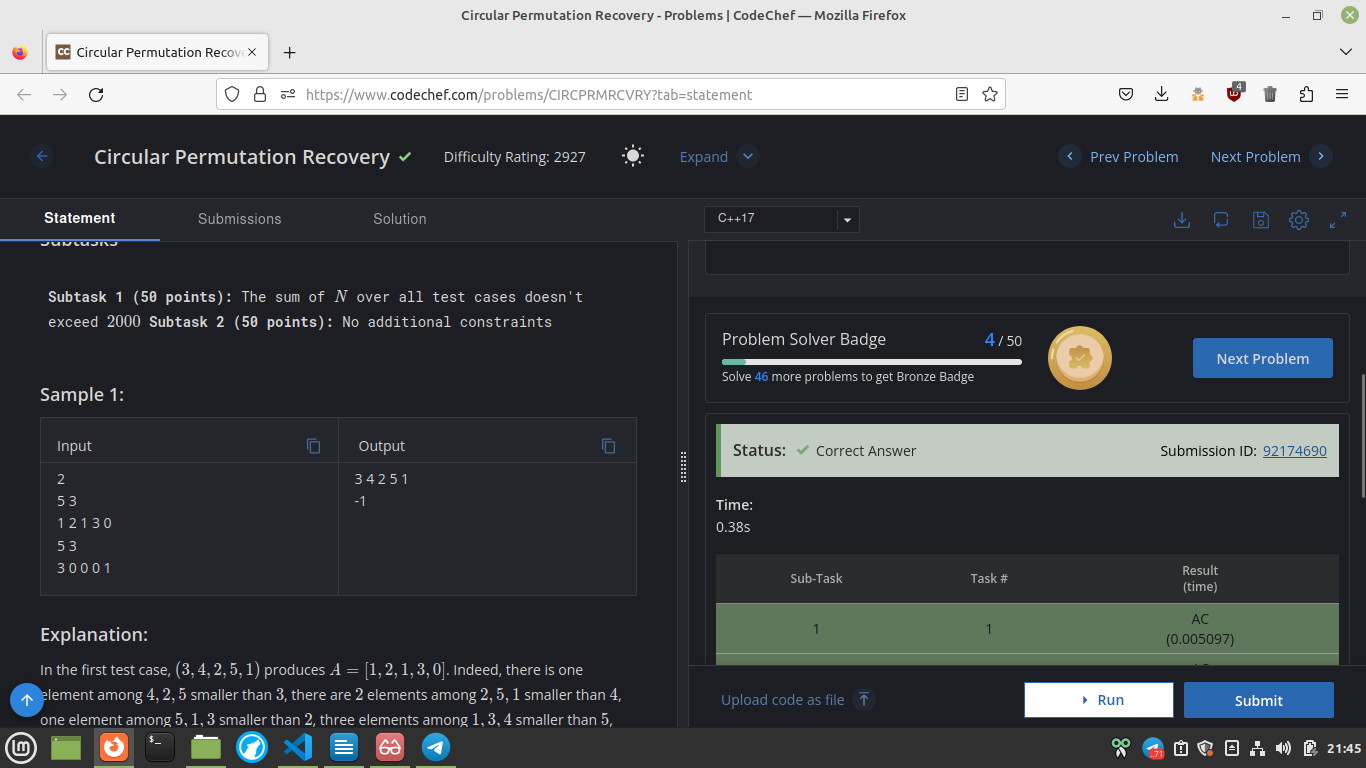
<https://leetcode.com/problems/pascals-triangle/>



**Day 04 Task**

Solve the Circular Permutation Recovery problem

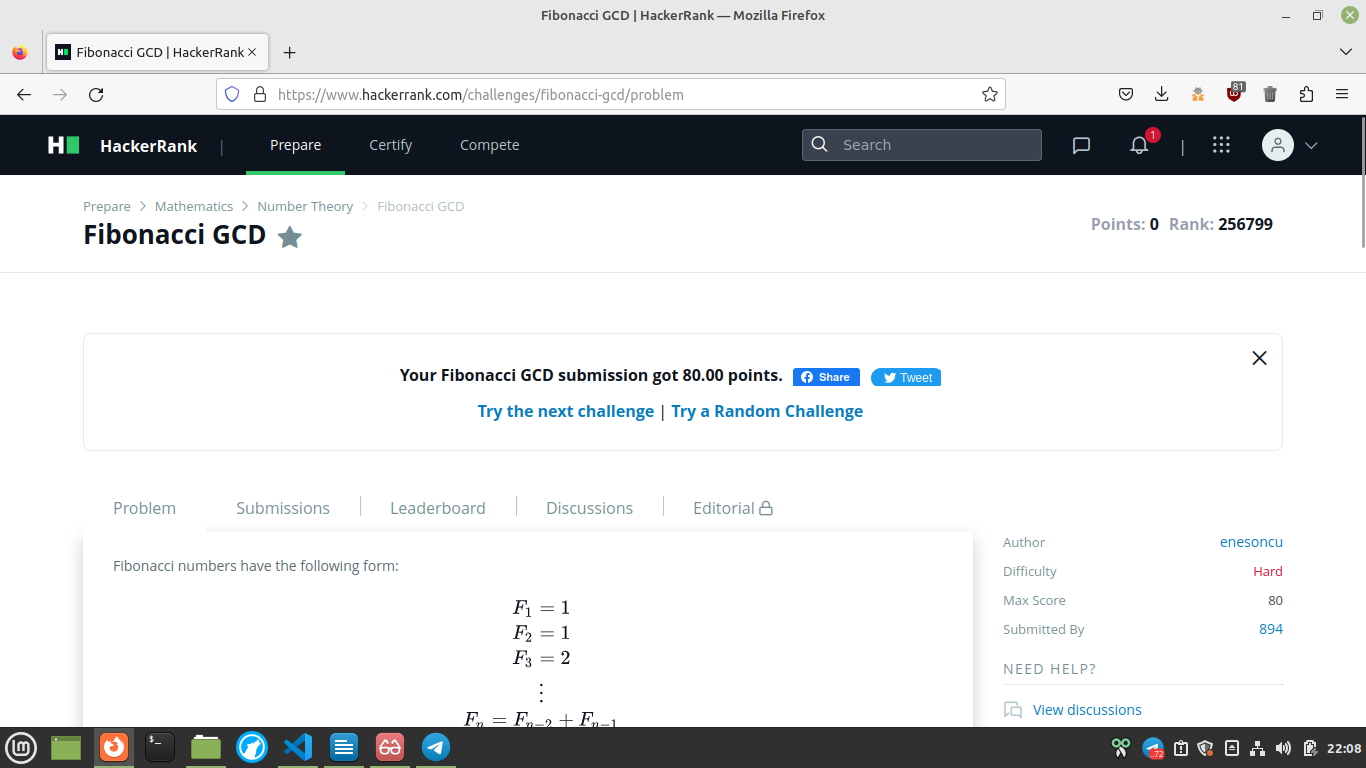
https://www.codechef.com/problems/CIRCPRMRCVRY



**Day 05 Task**

Solve the Fibonacci GCD problem

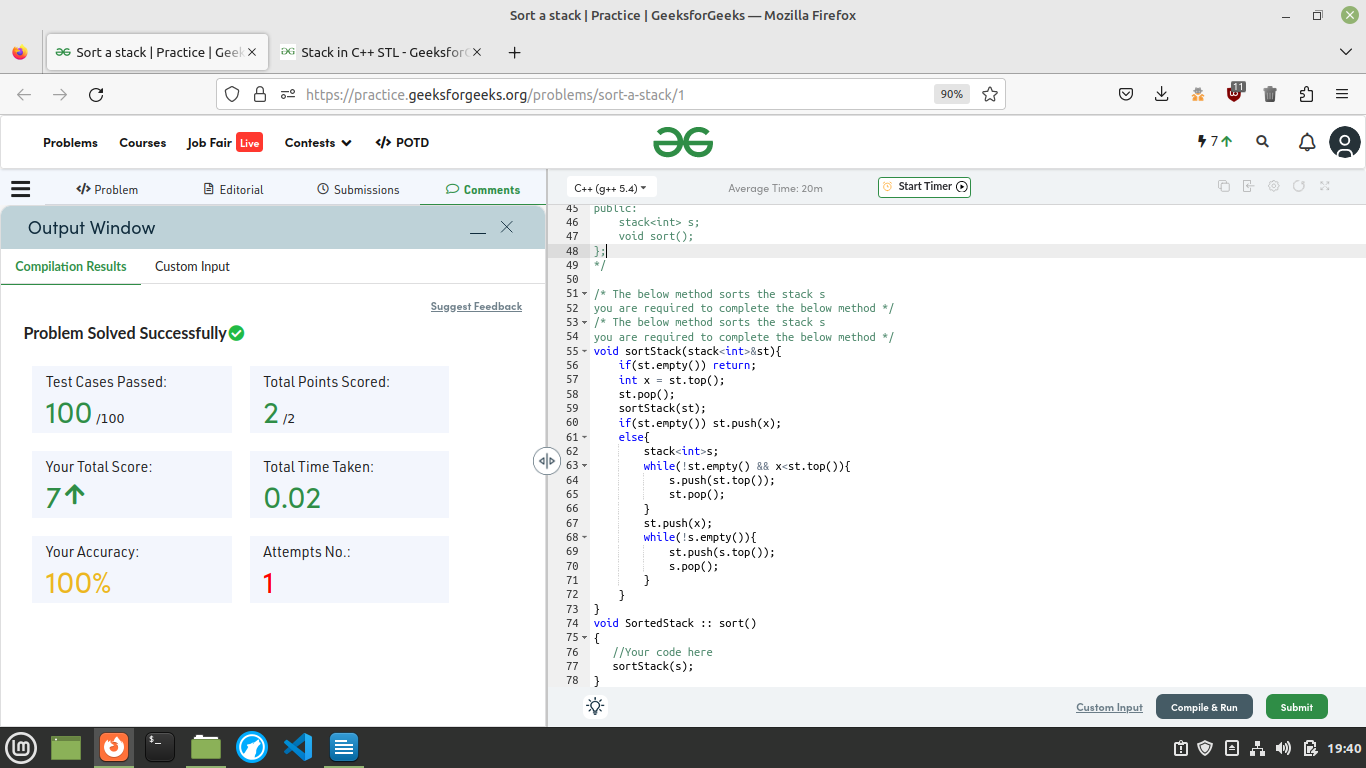
<https://www.hackerrank.com/challenges/fibonacci-gcd/>



**Day 06 Task**

Sort a Stack Using Recursion

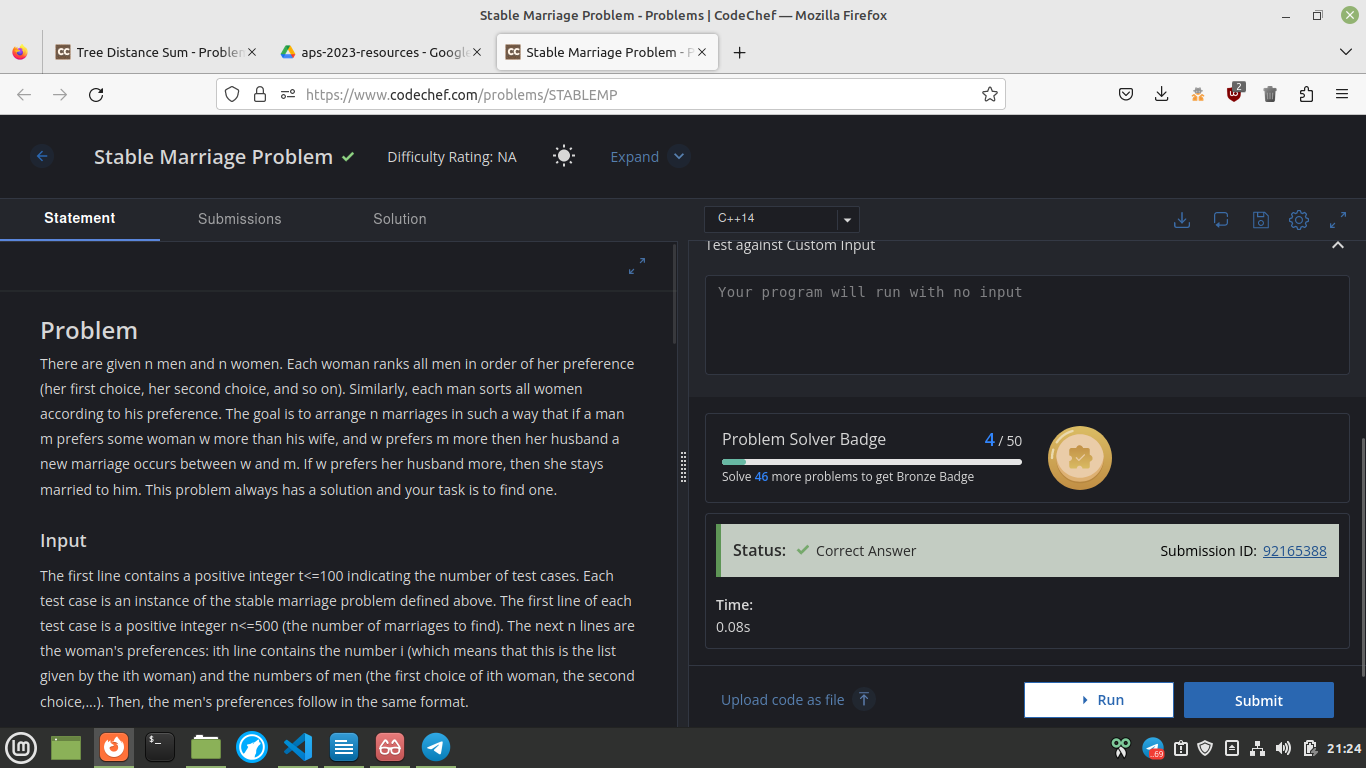
https://practice.geeksforgeeks.org/problems/sort-a-stack/1



**Day 07 Task**

Solve the stable marriage problem

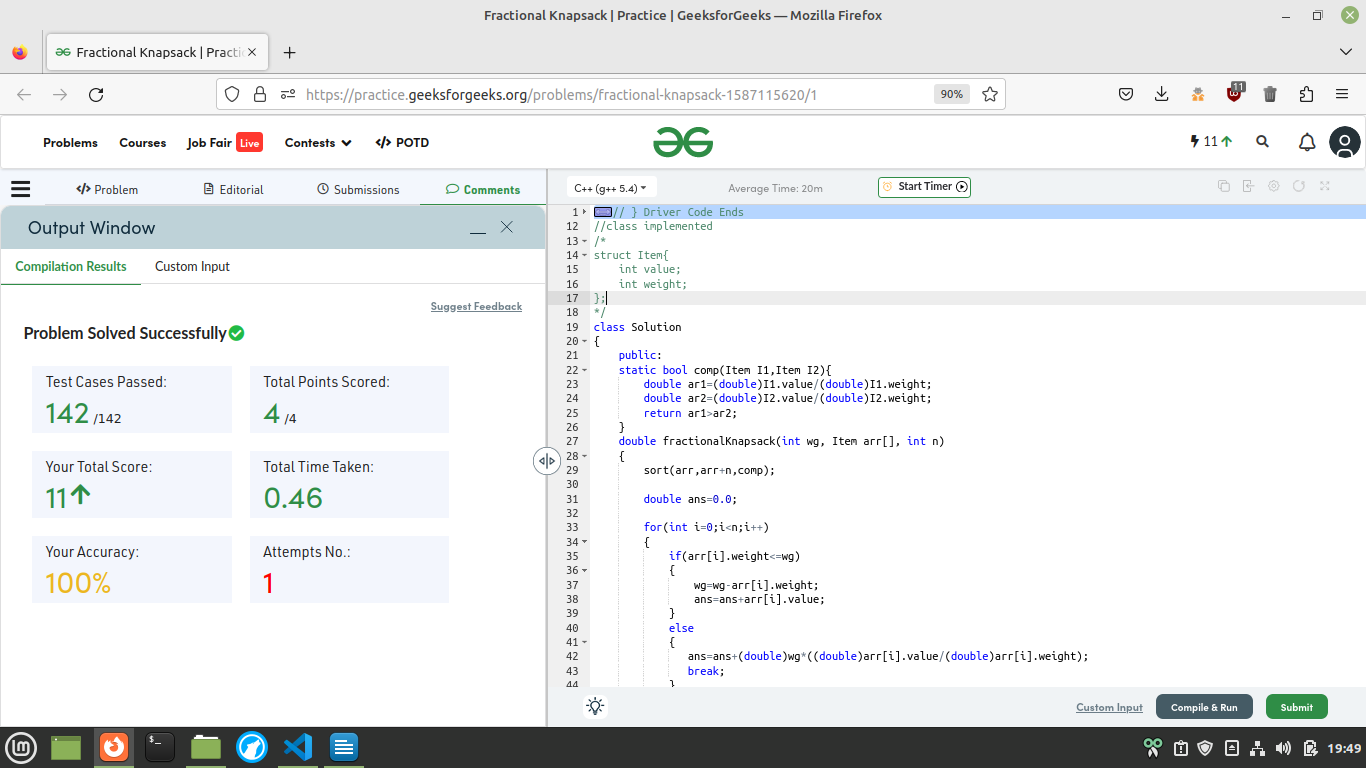
<https://www.codechef.com/problems/STABLEMP>



**Day 08 Task**

Solve the Fractional Knapsack problem

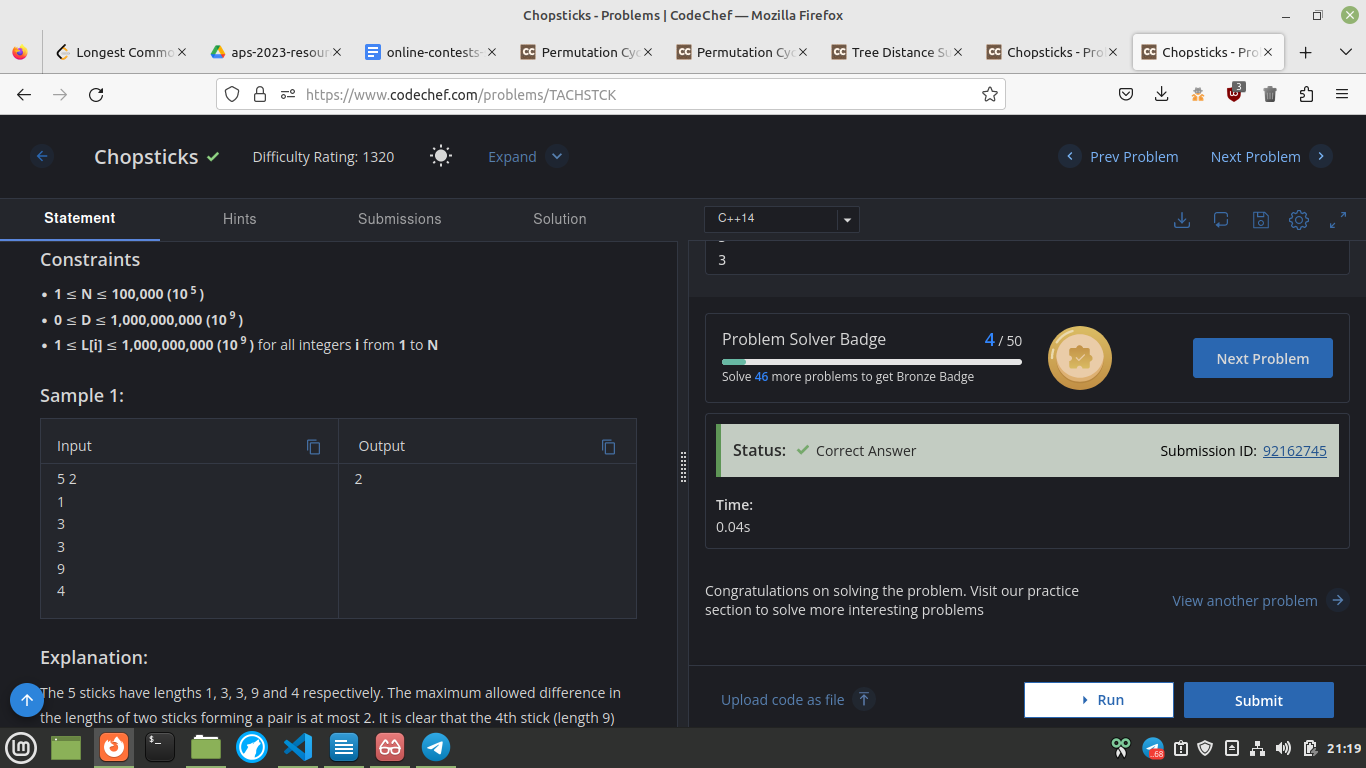
<https://practice.geeksforgeeks.org/problems/fractional-knapsack-1587115620/1>

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**Day 09 Task**

Solve the Chopsticks problem

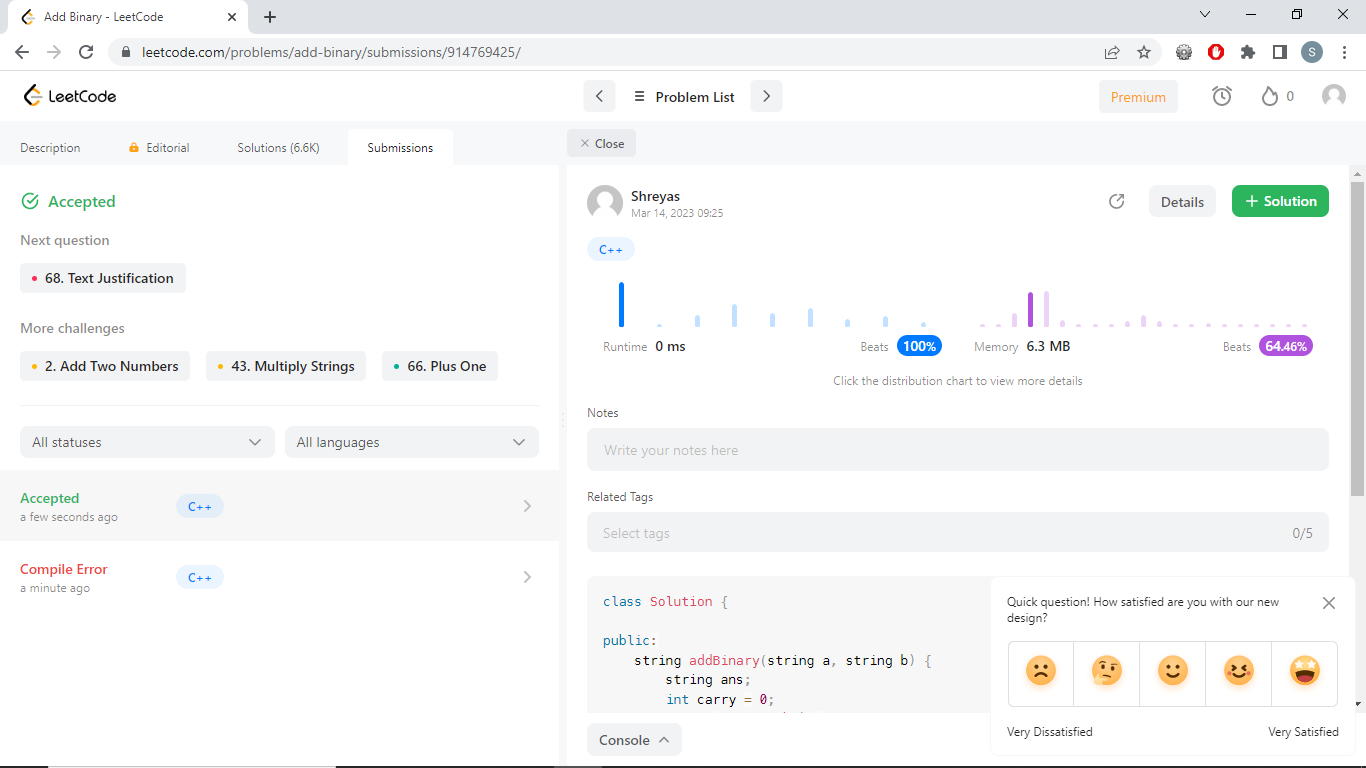
https://www.codechef.com/problems/TACHSTCK



**Day 10 Task**

Solve the Add Binary problem

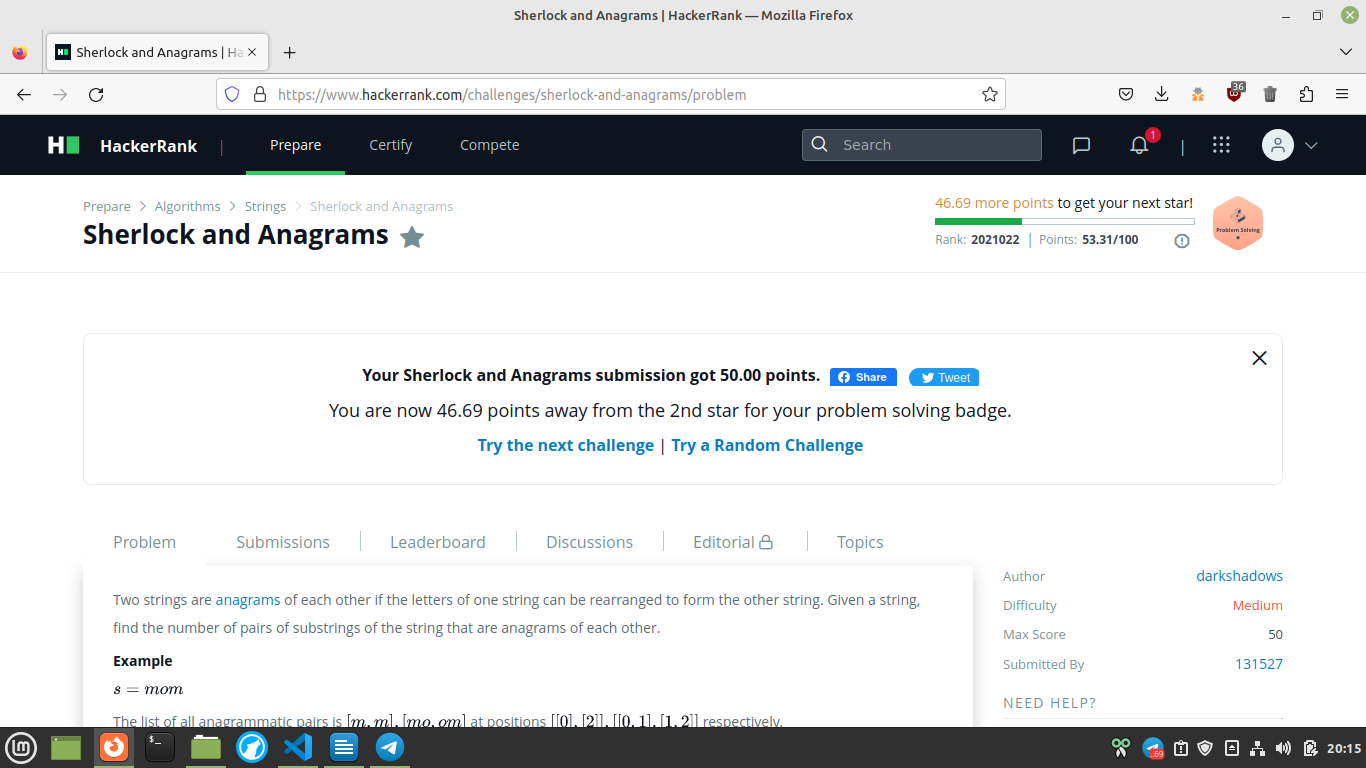
<https://leetcode.com/problems/add-binary/>



**Day 11 Task**

Solve the Sherlock and Anagram problem

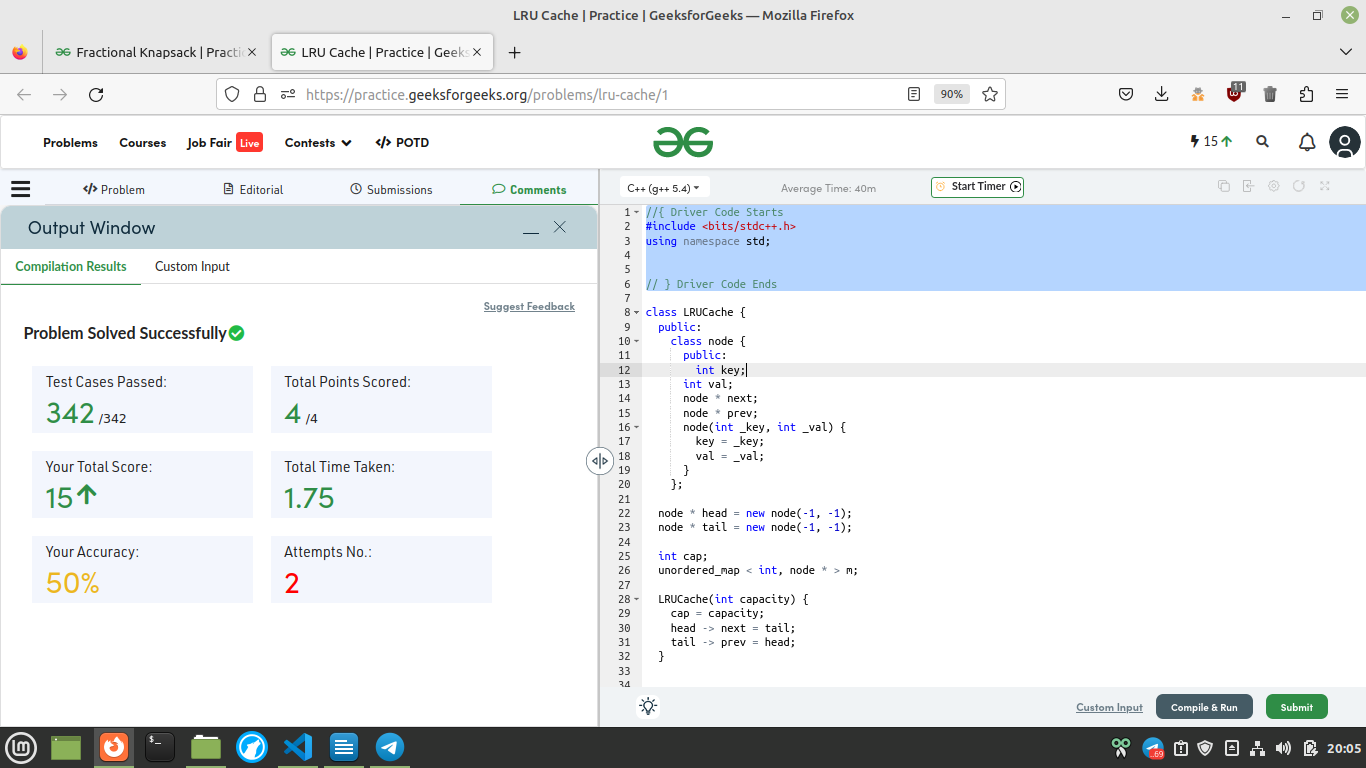
https://www.hackerrank.com/challenges/sherlock-and-anagrams



**Day 12 Task**

Solve the LRU Cache problem

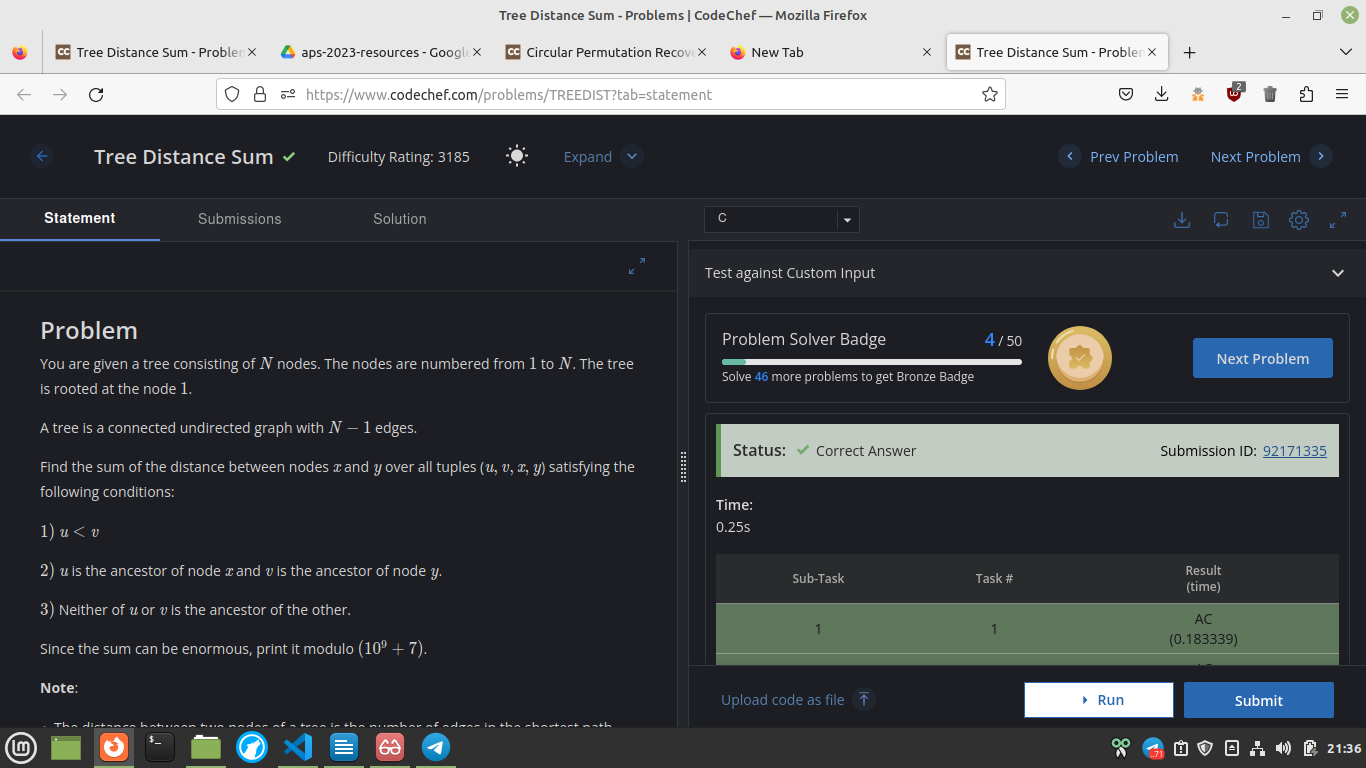
<https://practice.geeksforgeeks.org/problems/lru-cache/1>



**Day 13 Task**

Solve the Tree Distance Sum problem

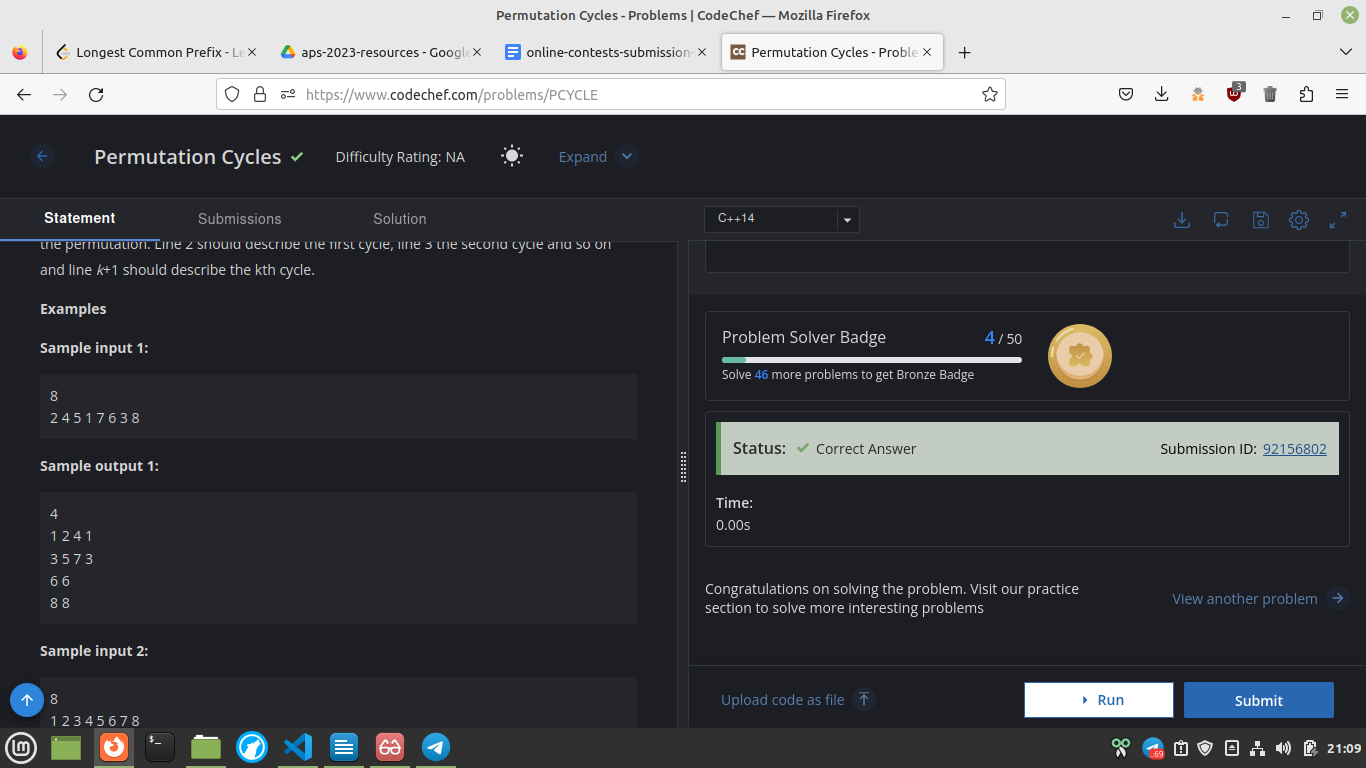
<https://www.codechef.com/problems/TREEDIST>



**Day 14 Task**

Solve the Permutations Cycle problem

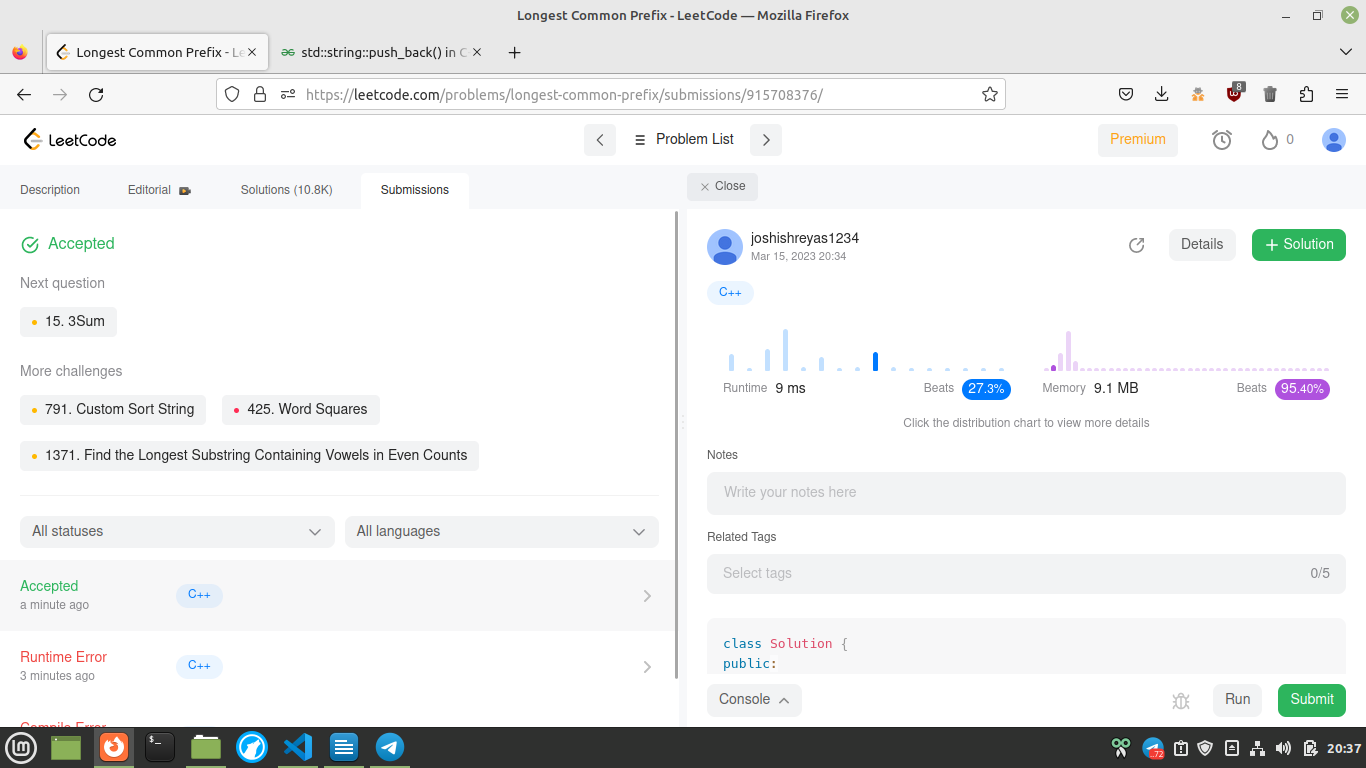
<https://www.codechef.com/problems/PCYCLE>



**Day 15 Task**

Solve the Longest Common Prefix problem

<https://leetcode.com/problems/longest-common-prefix/>



[Convert to .pdf and email to prakash.hegade@kletech.ac.in]

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