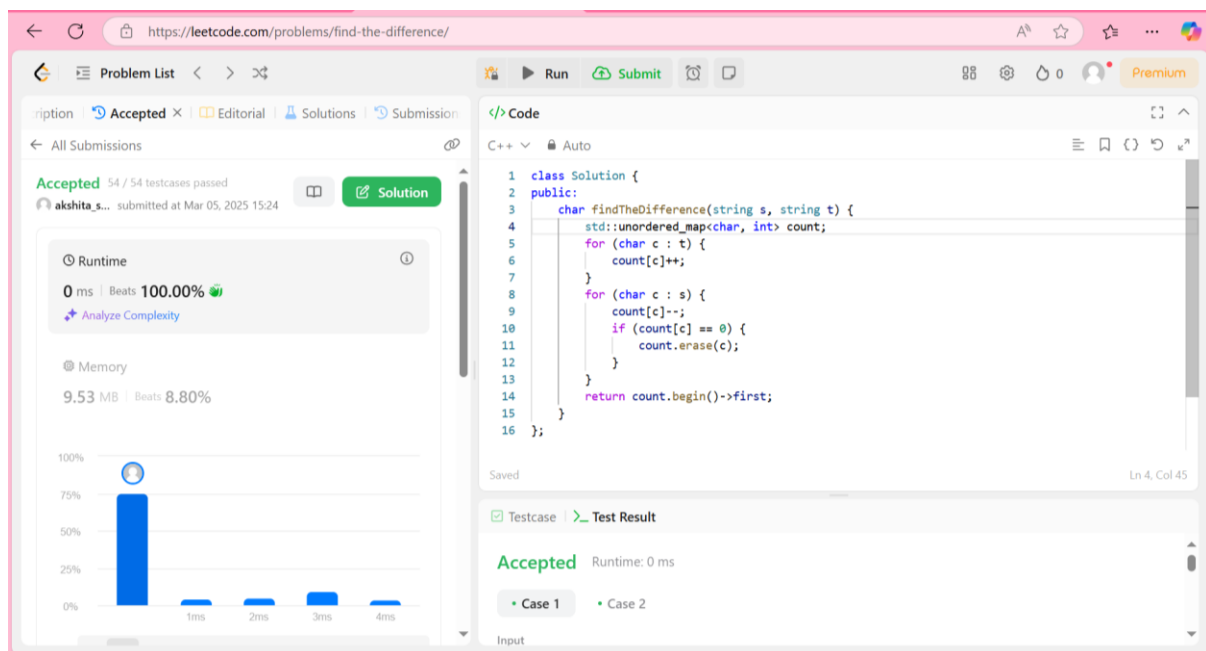


389. Find the difference

Solution

```
class Solution {
public:
    char findTheDifference(string s, string t) {
        std::unordered_map<char, int> count;
        for (char c : t) {
            count[c]++;
        }
        for (char c : s) {
            count[c]--;
            if (count[c] == 0) {
                count.erase(c);
            }
        }
        return count.begin()->first;
    }
};
```

Output

976. Largest Perimeter Triangle

Solution

```
class Solution {
public:
```

```

int largestPerimeter(vector<int>& nums) {
    sort(nums.begin(),nums.end());
    for(int i=nums.size()-1;i>1;i--){
        if(nums[i]<nums[i-1]+nums[i-2]){
            return nums[i]+nums[i-1]+nums[i-2];
        }
    }
    return 0;
}
};

```

Output

The screenshot displays the LeetCode submission interface for the problem 'largest-perimeter-triangle'. The code is written in C++ and is accepted. The runtime is 4 ms, which beats 68.78% of other submissions. The memory usage is 25.70 MB, beating 48.68%. A bar chart shows the distribution of runtimes, with a peak around 4 ms. The test result for Case 1 with input [2, 1, 2] is 'Accepted'.

414.Third Maximum Number

Solution

```

class Solution {
public:
    int thirdMax(vector<int>& nums) {
        // Sorted set to keep elements in sorted order.
        set<int> sortedNums;

        // Iterate on all elements of 'nums' array.
        for (int& num : nums) {
            // Do not insert same element again.
            if (sortedNums.count(num)) {
                continue;
            }

            // If sorted set has 3 elements.
            if (sortedNums.size() == 3) {

```

```

        // And the smallest element is smaller than current element.
        if (*sortedNums.begin() < num) {
            // Then remove the smallest element and push the current
element.

            sortedNums.erase(sortedNums.begin());
            sortedNums.insert(num);
        }

    }
    // Otherwise push the current element of nums array.
    else {
        sortedNums.insert(num);
    }
}

// If sorted set has three elements return the smallest among those 3.
if (sortedNums.size() == 3) {
    return *sortedNums.begin();
}

// Otherwise return the biggest element of nums array.
return *sortedNums.rbegin();
}
};

```

Output

The screenshot displays a LeetCode submission for the problem "Third Maximum Number". The submission is accepted, with a runtime of 0 ms and memory usage of 13.04 MB. The code is written in C++ and uses a set to maintain a sorted list of elements. The test results show that the solution passed all three test cases.

Runtime: 0 ms | Beats 100.00%

Memory: 13.04 MB | Beats 44.79%

Test Results: Accepted (Runtime: 0 ms)

Input: nums = [3, 2, 1]

451. Sort Characters By Frequency

Solution

```
class Solution {
```

```

public:
    string frequencySort(string s) {
        unordered_map<char,int> m;
        string ans;

        int hf=INT_MIN;
        for(char str:s){
            m[str]++;

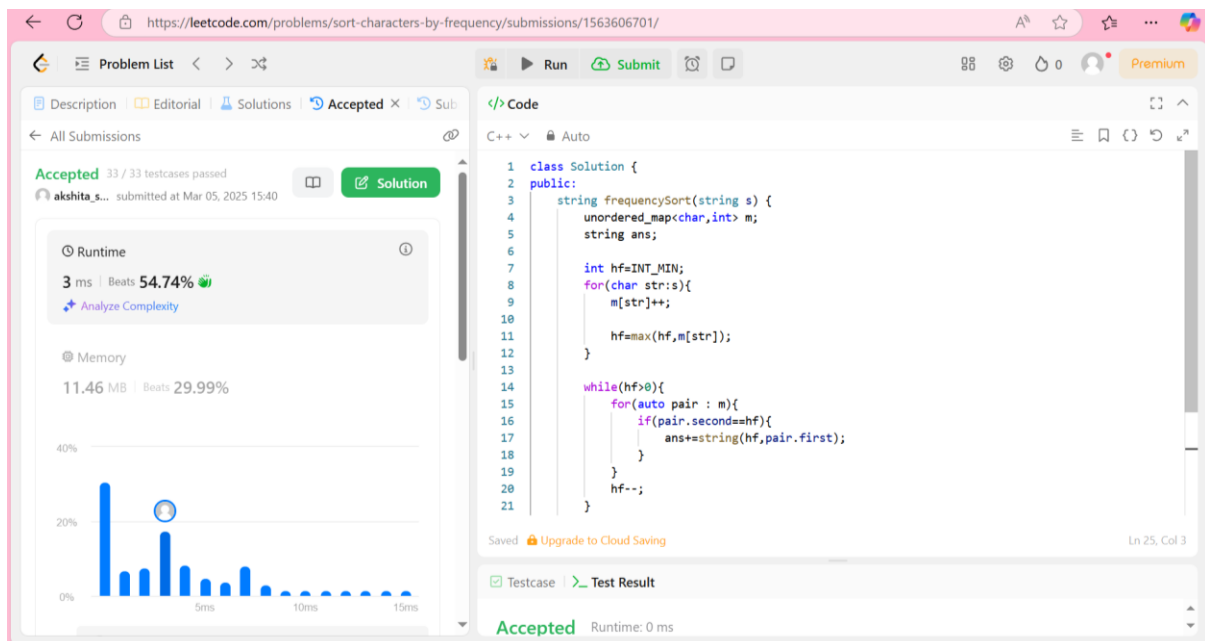
            hf=max(hf,m[str]);
        }

        while(hf>0){
            for(auto pair : m){
                if(pair.second==hf){
                    ans+=string(hf,pair.first);
                }
            }
            hf--;
        }

        return ans;
    }
};

```

Output



452. Minimum Number of Arrows to Burst Balloons

Solution

```

class Solution {

```

```

public:
    int findMinArrowShots(vector<vector<int>>& points) {

        // Sort the balloons based on their end coordinates
        sort(points.begin(), points.end(), [](const vector<int>& a, const
vector<int>& b) {
            return a[1] < b[1];
        });

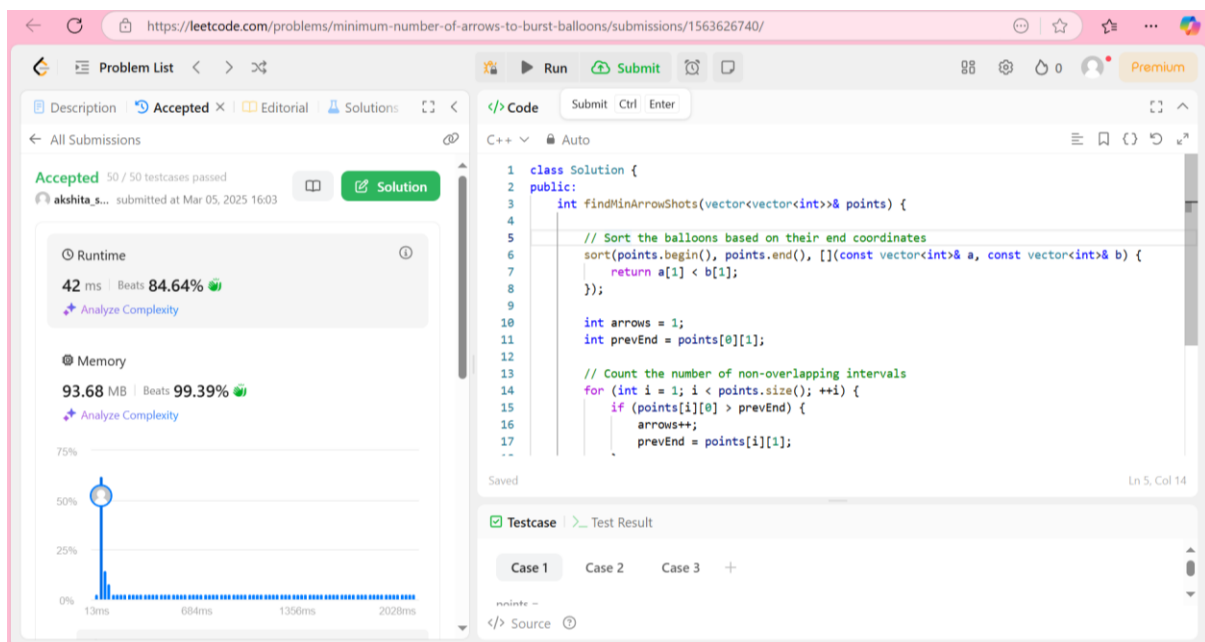
        int arrows = 1;
        int prevEnd = points[0][1];

        // Count the number of non-overlapping intervals
        for (int i = 1; i < points.size(); ++i) {
            if (points[i][0] > prevEnd) {
                arrows++;
                prevEnd = points[i][1];
            }
        }

        return arrows;
    }
};

```

Output



881. [Boats to Save People](#)

Solution

```

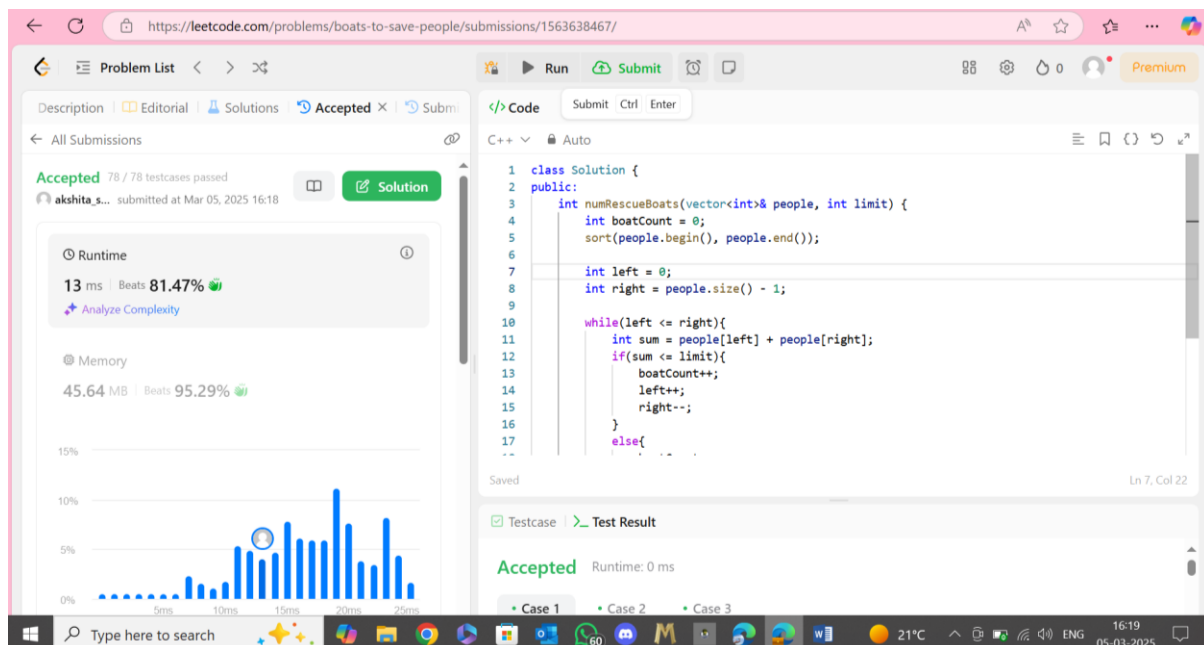
class Solution {
public:
    int numRescueBoats(vector<int>& people, int limit) {
        int boatCount = 0;
        sort(people.begin(), people.end());

        int left = 0;
        int right = people.size() - 1;

        while(left <= right){
            int sum = people[left] + people[right];
            if(sum <= limit){
                boatCount++;
                left++;
                right--;
            }
            else{
                boatCount++;
                right--;
            }
        }
        return boatCount;
    }
};

```

Output



973. [K Closest Points to Origin](#)

Solution

```

class Solution {

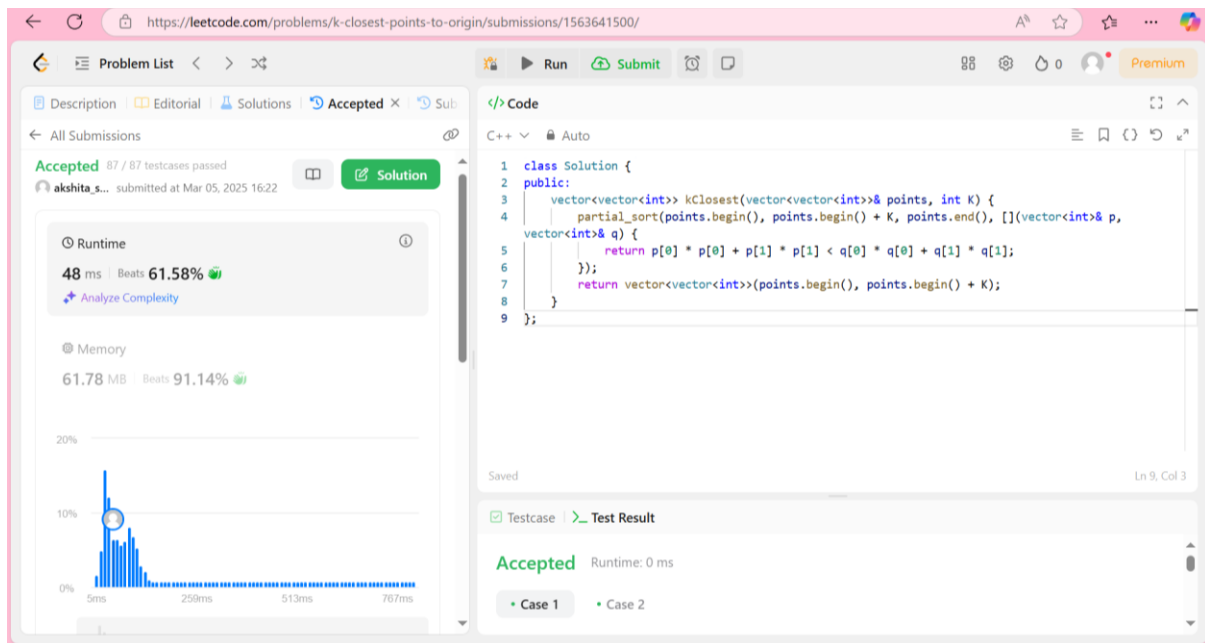
```

```

public:
    vector<vector<int>> kClosest(vector<vector<int>>& points, int K) {
        partial_sort(points.begin(), points.begin() + K, points.end(),
[] (vector<int>& p, vector<int>& q) {
            return p[0] * p[0] + p[1] * p[1] < q[0] * q[0] + q[1] * q[1];
        });
        return vector<vector<int>>(points.begin(), points.begin() + K);
    }
};

```

Output



1338.Reduce Array Size to The Half

Solution

```

class Solution {
public:
    int minSetSize(vector<int>& arr) {
        int ans=0;
        int n1=0;
        vector<int> v;
        int n= arr.size();
        unordered_map<int, int> um;
        for(int i=0; i< n; i++)
        {
            um[arr[i]]++;
        }

        for (auto x : um)
        {
            v.push_back(x.second);
        }
    }
};

```

Output

