Course Name:	Competitive Programming Lab	Semester:	IV
Date of Performance:	12/ 01/ 2026	DIV/ Batch No:	B2
Student Name:	Ashwera Hasan	Roll No:	16010124107

Experiment No: 0

Title: Arrays - Searching, Frequency Counting, and Basic Array Analysis

Aim and Objective of the Experiment:

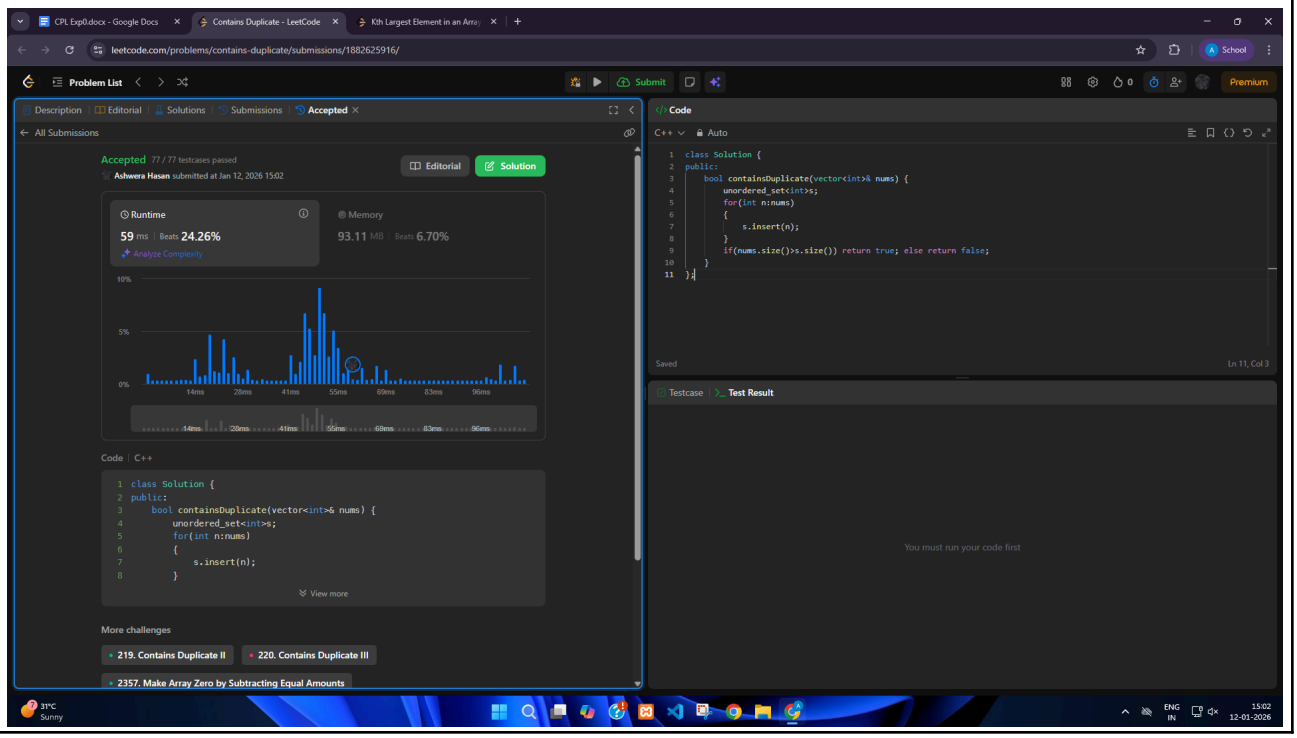
Easy	Count distinct elements in array	LC 217 – Contains Duplicate
Easy	Find first repeating element	LC 2351 – First Letter to Appear Twice
Medium	Minimum difference between any two elements	LC 1200 – Minimum Absolute Difference

COs to be achieved:

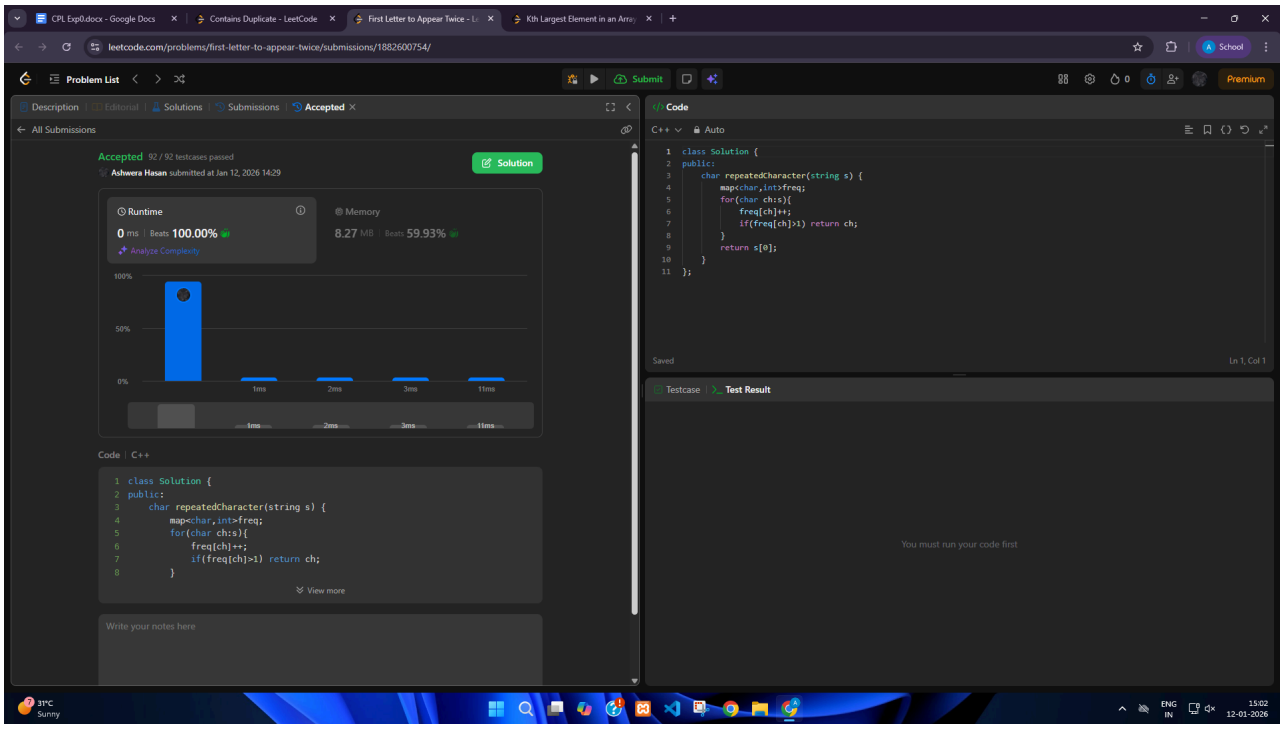
Applying various problem-solving paradigms, enabling them to create and implement efficient algorithms for real-world challenges.

Code :

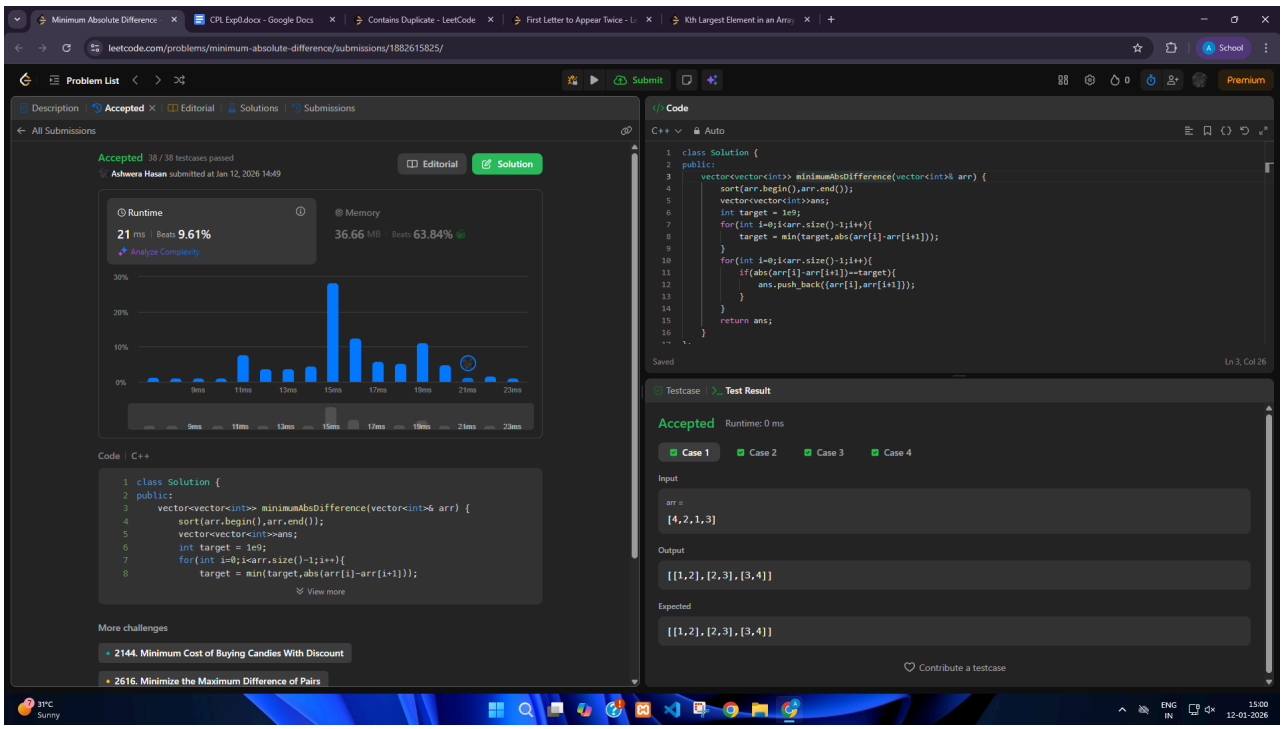
Contains Duplicate:



First Letter to Appear Twice:

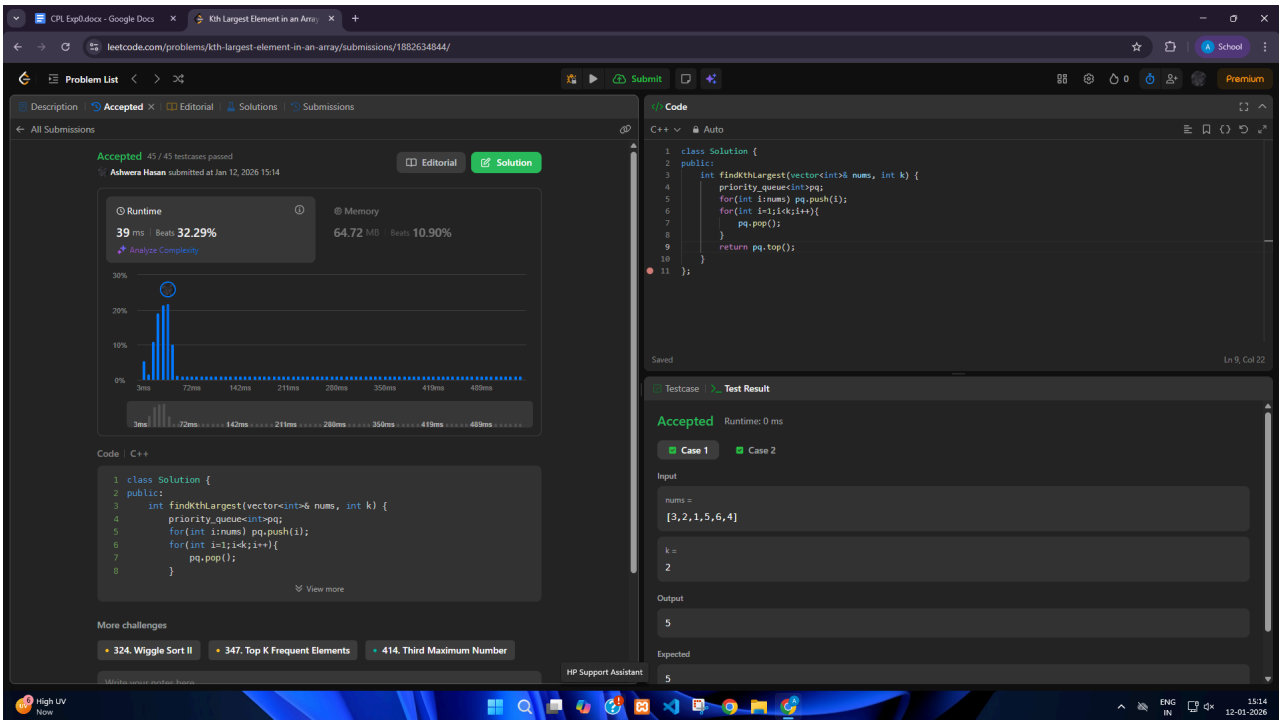


Minimum Absolute Difference



Post Lab Subjective/Objective type Questions:

Create your account on Leetcode, solve and submit the following Leetcode problems:
LC 215: https://leetcode.com/problems/kth-largest-element-in-an-array/



Conclusion:

This experiment strengthened the foundations of data structures and algorithms and their implementation of the same in C++.

Signature of faculty in-charge with Date: