ASSIGNMENT - 5

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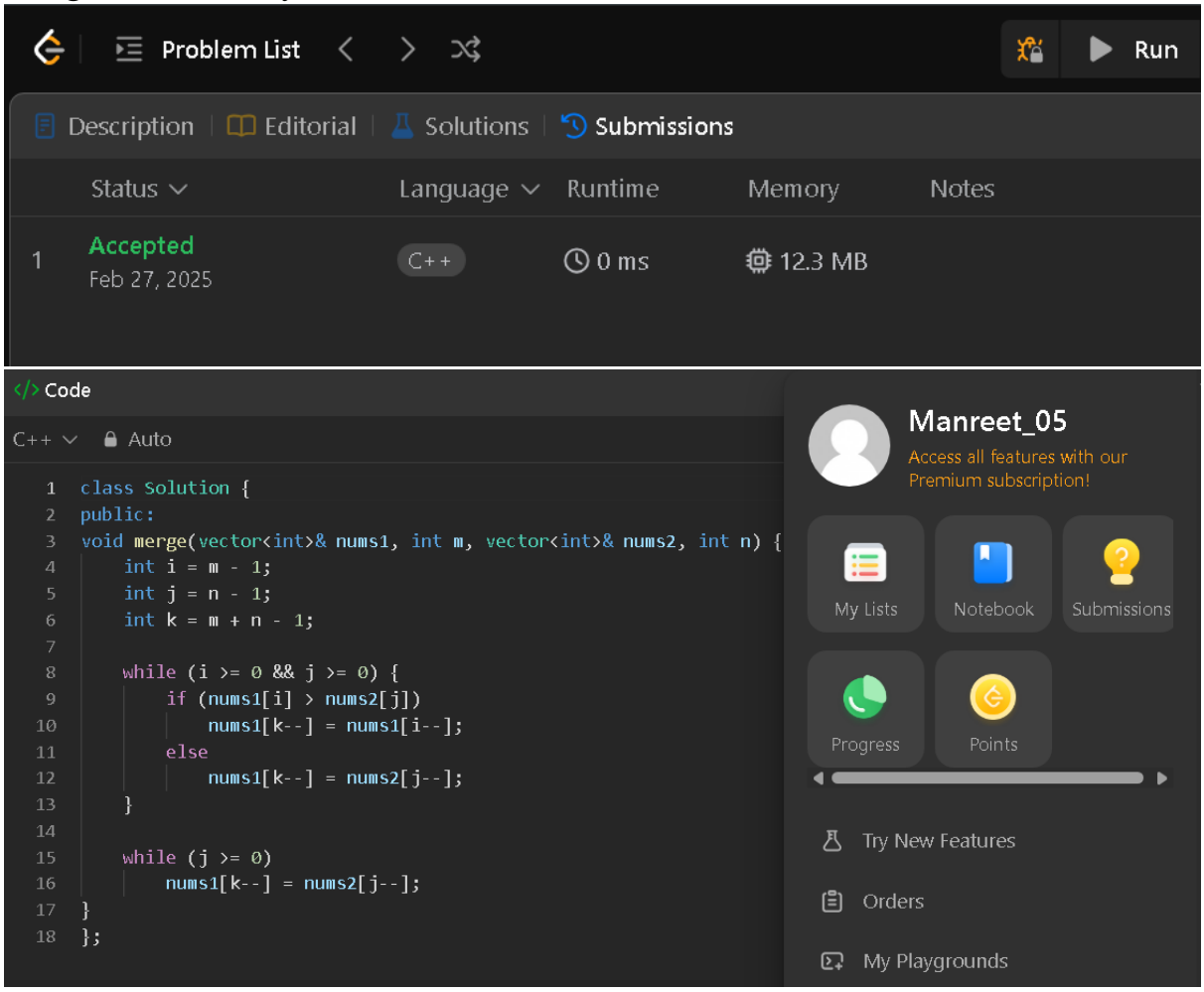
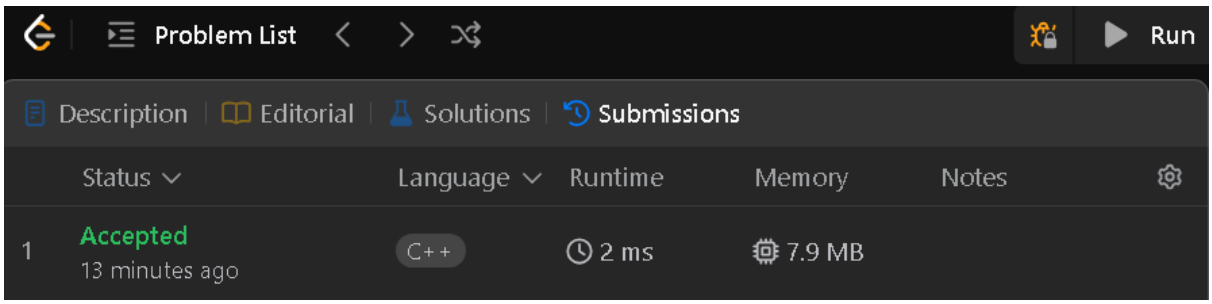
Branch: BE-CSE **Section/Group: 608/B**

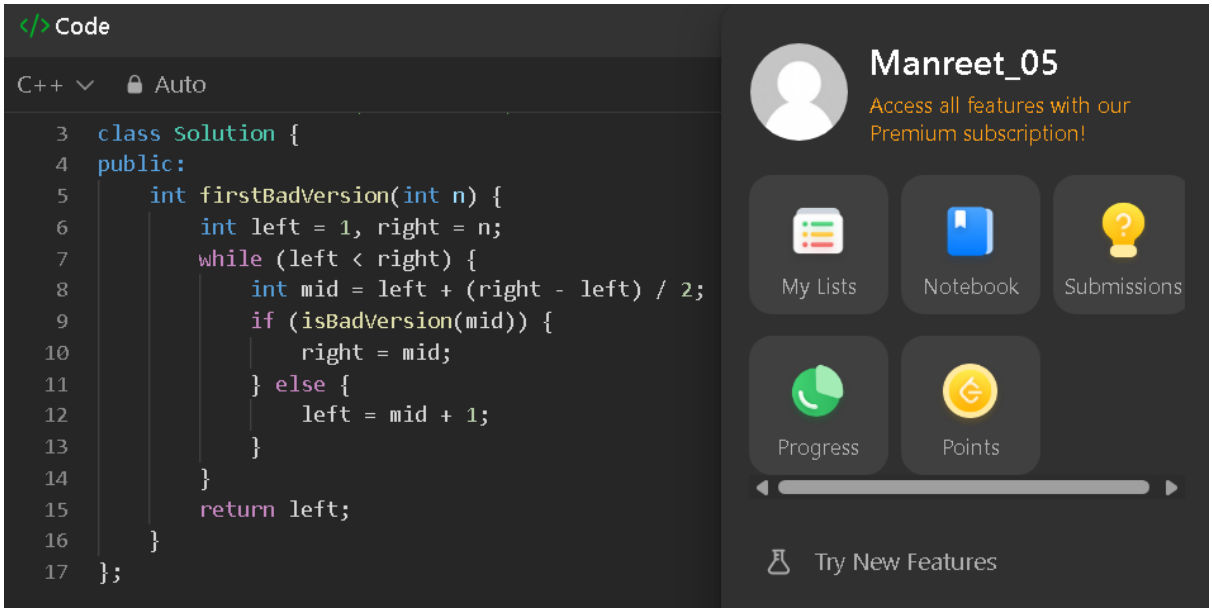
Semester: 6th **Subject Name: AP LAB**

1. Merge Sorted Array

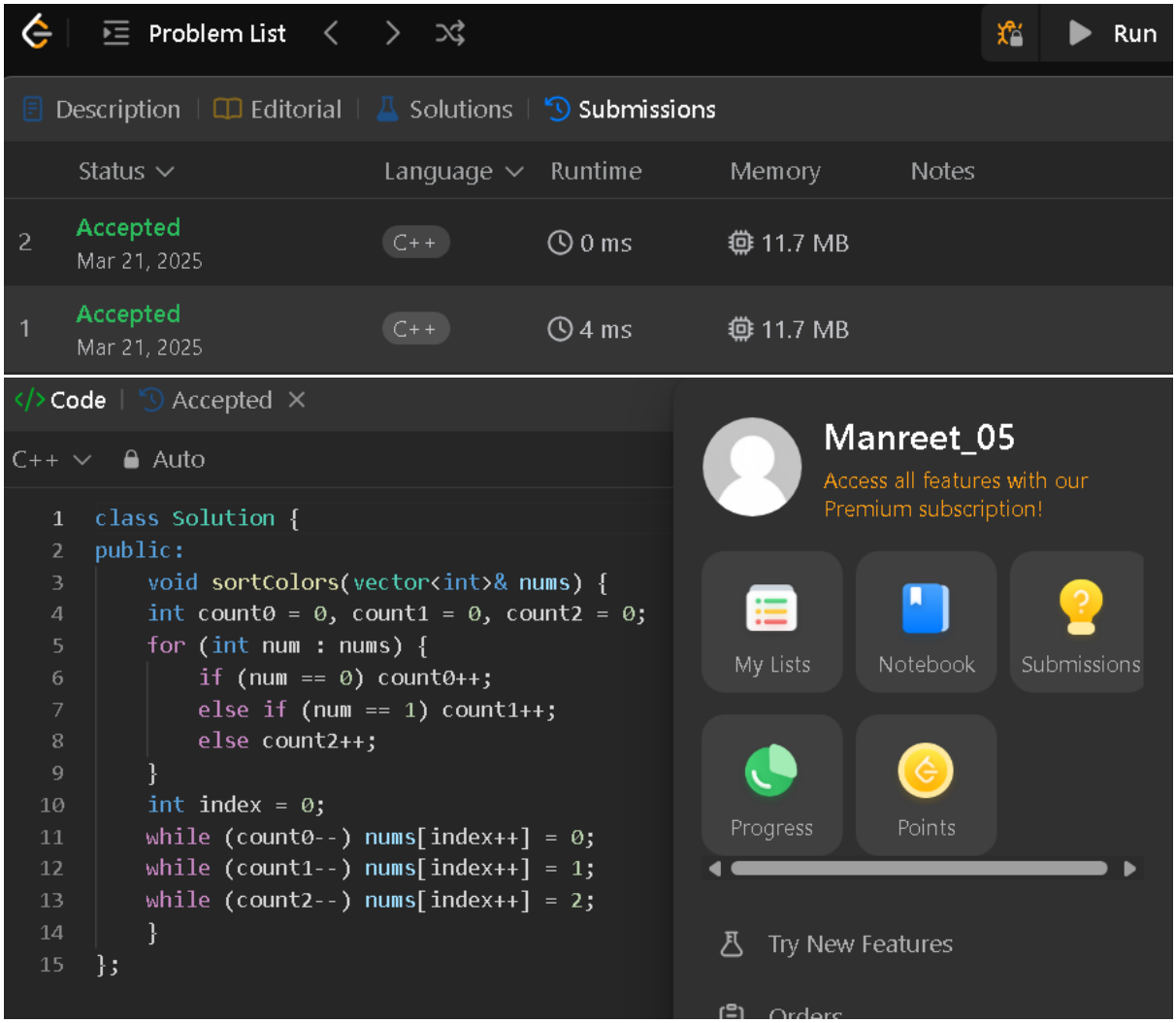


2. First Bad Version

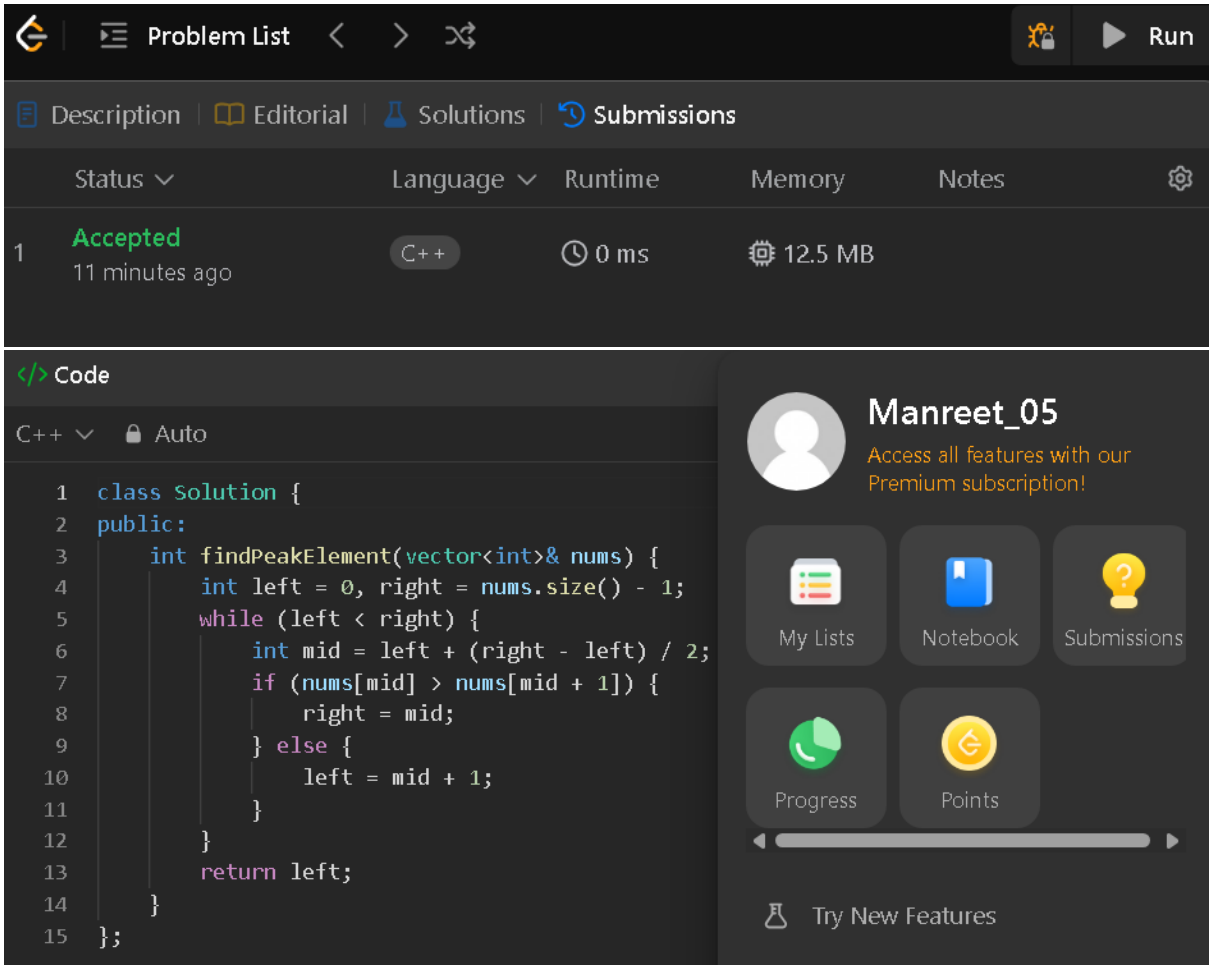




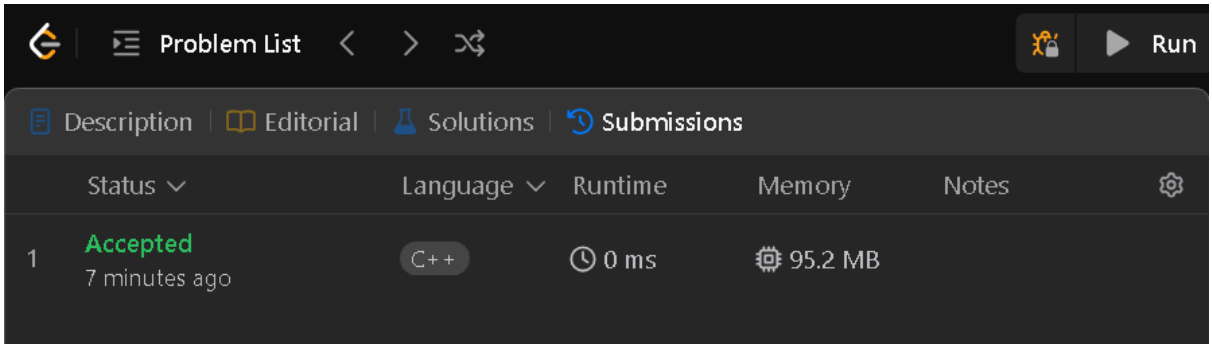
3. Sort Colors

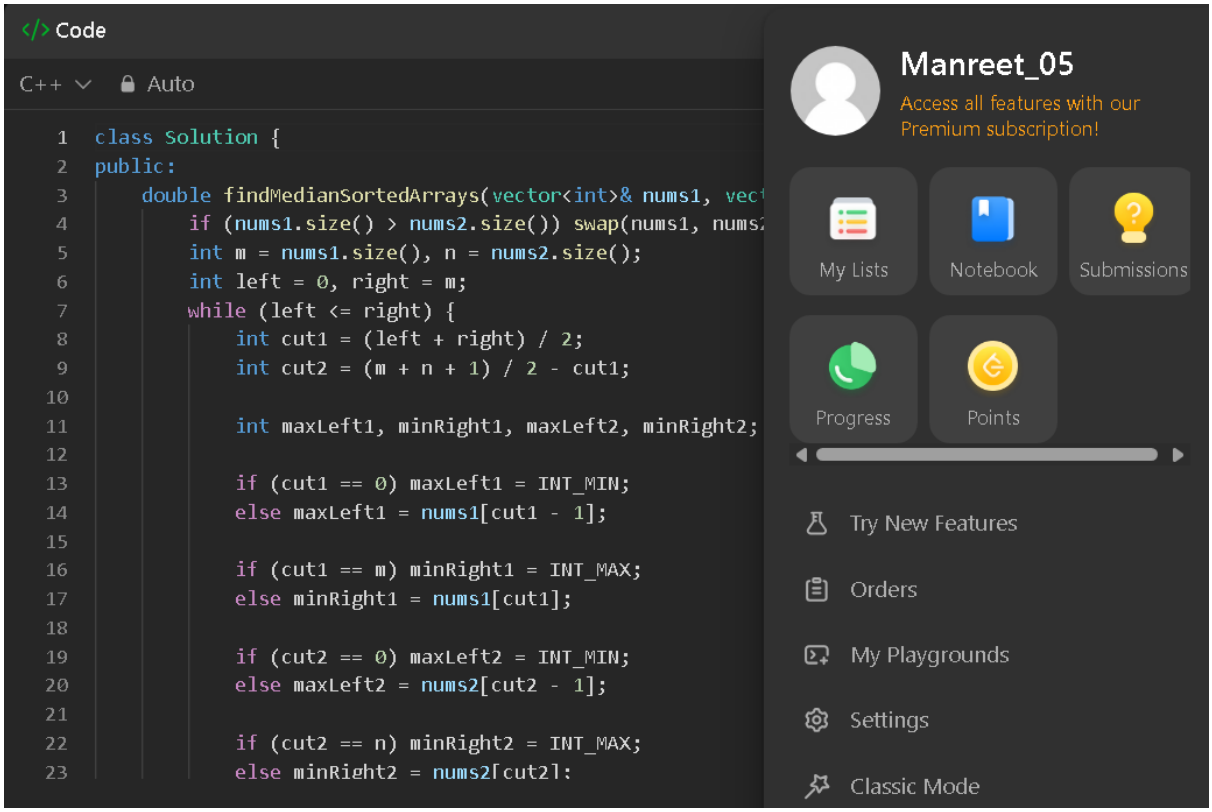


4. Find Peak Element



5. Median of Two Sorted Arrays




Code
C++
Auto
class Solution {
public:
double findMedianSortedArrays(vector<int>& nums1, vec
if (nums1.size() > nums2.size()) swap(nums1, nums
int m = nums1.size(), n = nums2.size();
int left = 0, right = m;
while (left <= right) {
int cut1 = (left + right) / 2;
int cut2 = (m + n + 1) / 2 - cut1;
int maxLeft1, minRight1, maxLeft2, minRight2;
if (cut1 == 0) maxLeft1 = INT_MIN;
else maxLeft1 = nums1[cut1 - 1];
if (cut1 == m) minRight1 = INT_MAX;
else minRight1 = nums1[cut1];
if (cut2 == 0) maxLeft2 = INT_MIN;
else maxLeft2 = nums2[cut2 - 1];
if (cut2 == n) minRight2 = INT_MAX;
else minRight2 = nums2[cut2];
Manreet_05
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