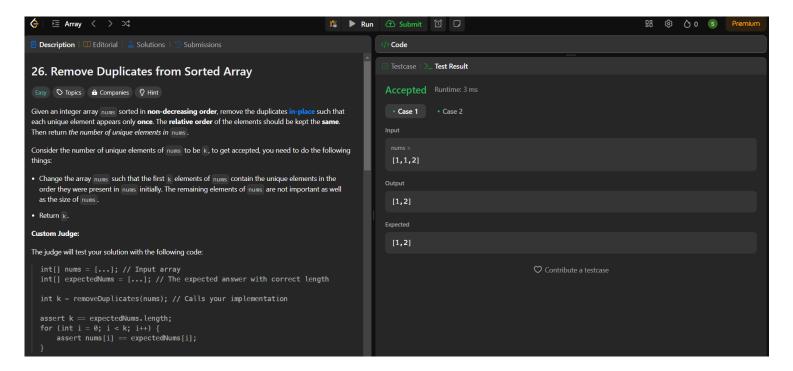
#### LEETCODE REPORT

# **QUESTION 1:**



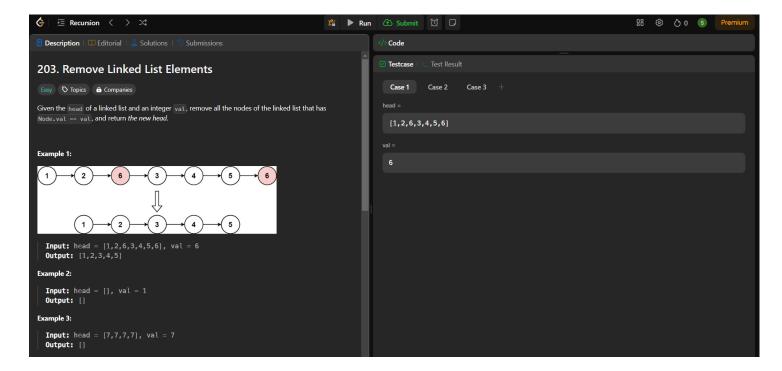
```
int removeDuplicates(int* nums, int numsSize) {
   if (numsSize == 0) return 0;

   int uniqueIndex = 0;

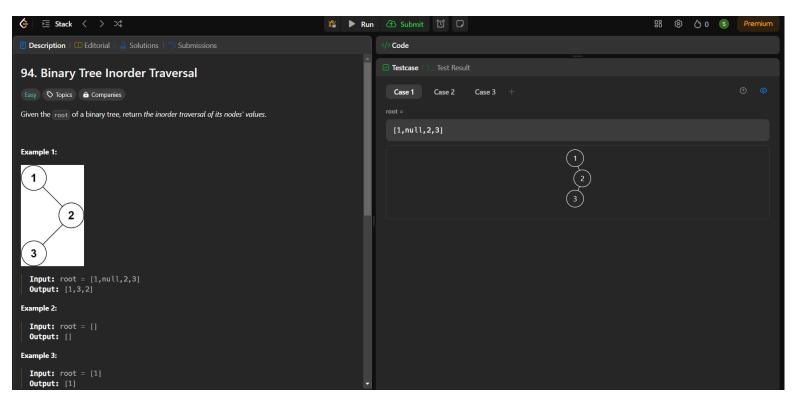
   for (int i = 1; i < numsSize; i++) {
      if (nums[i] != nums[uniqueIndex]) {
           uniqueIndex++;
           nums[uniqueIndex] = nums[i];
      }

   return uniqueIndex + 1;
}</pre>
```

## **QUESTION 2:**

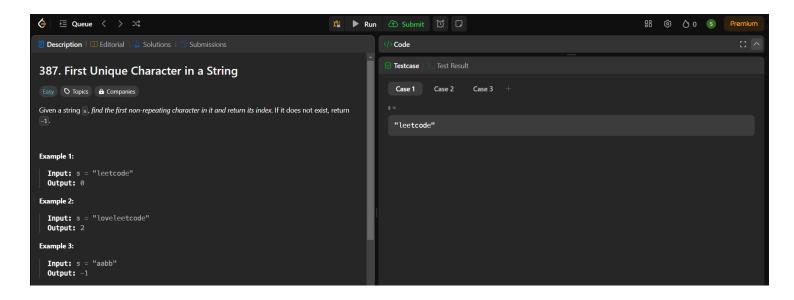


## **Question 3:**



```
void inorderTraversalHelper(struct TreeNode* root, int* result, int* index) {
   if (root == NULL)
    inorderTraversalHelper(root->left, result, index);
   result[(*index)++] = root->val;
    inorderTraversalHelper(root->right, result, index);
int* inorderTraversal(struct TreeNode* root, int* returnSize) {
   int count = 0;
   void countNodes(struct TreeNode* node) {
       if (node == NULL)
           return;
       countNodes(node->left);
       count++;
       countNodes(node->right);
   countNodes(root);
   int* result = (int*)malloc(count * sizeof(int));
   *returnSize = count;
   int index = 0;
   inorderTraversalHelper(root, result, &index);
```

## **Question 4:**



```
int firstUniqChar(char* s) {
   int count[26] = {0}; // Assuming input string contains only lowercase English letters

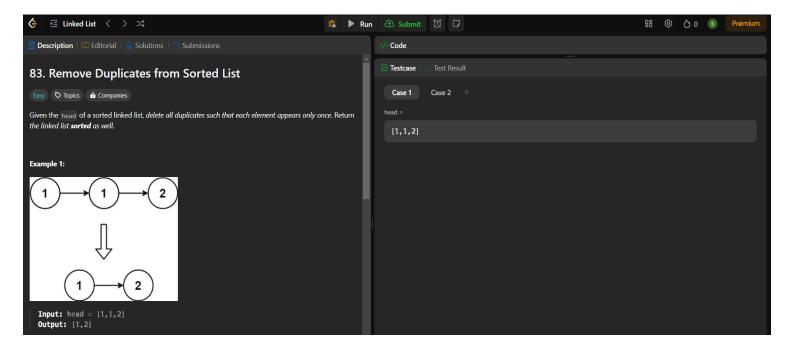
// Count occurrences of each character
for (int i = 0; s[i] != '\0'; i++) {
   count[s[i] - 'a']++;
}

// Find the index of the first unique character
for (int i = 0; s[i] != '\0'; i++) {
   if (count[s[i] - 'a'] == 1) {
        return i;
    }
}

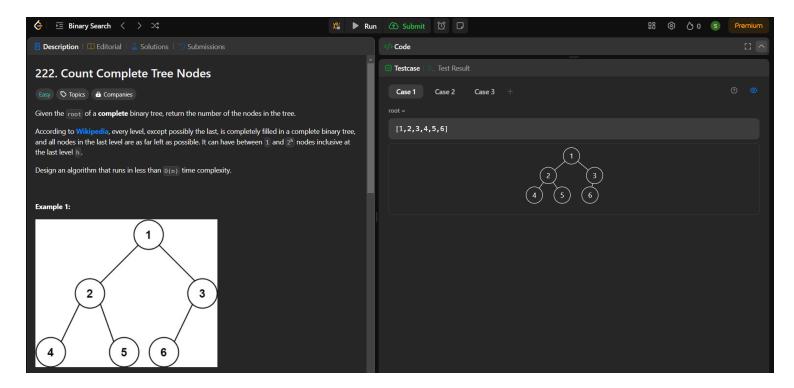
return -1; // If no unique character found

// Find the index of the first unique character
for (int i = 0; s[i] != '\0'; i++) {
   if (count[s[i] - 'a'] == 1) {
        return i;
   }
}
```

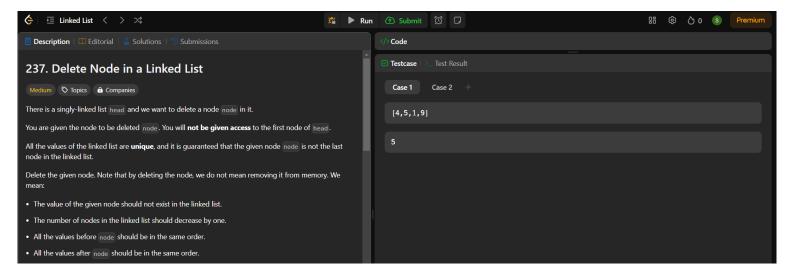
# **Question 5:**



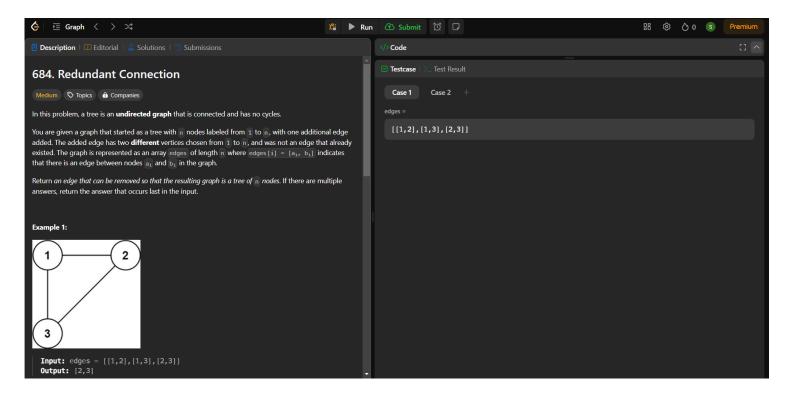
## **Question 6:**



## **Question 7:**

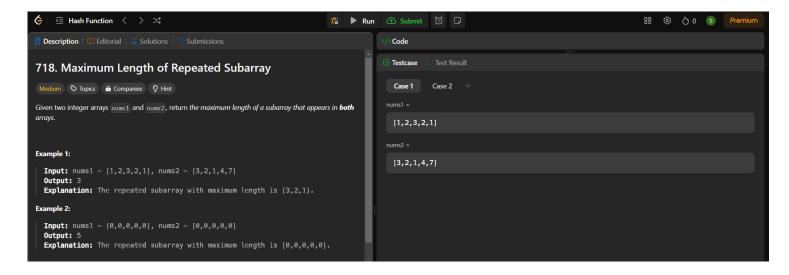


## **Question 8:**



```
int parent[1001];
int find(int x) {
    if (parent[x] == -1) return x;
    return parent[x] = find(parent[x]);
int* findRedundantConnection(int** edges, int edgesSize, int* edgesColSize, int* returnSize) {
    for (int i = 0; i <= 1000; i++) {
        parent[i] = -1;
    for (int i = 0; i < edgesSize; i++) {</pre>
       int u = find(edges[i][0]);
        int v = find(edges[i][1]);
        if (u == v) {
            int* result = (int*)malloc(2 * sizeof(int));
            result[0] = edges[i][0];
            result[1] = edges[i][1];
            return result;
        parent[u] = v;
```

## **Question 9:**



## **Question 10:**

