

WORKSHEET 1

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Branch: BE-CSE Section/Group: 22BCS_NTPP-602-A

Semester: 6th **Date of Performance:**

Subject Name: AP LAB - II Subject Code: 22CSP-351

1. Aim: Remove duplicates from a sorted array

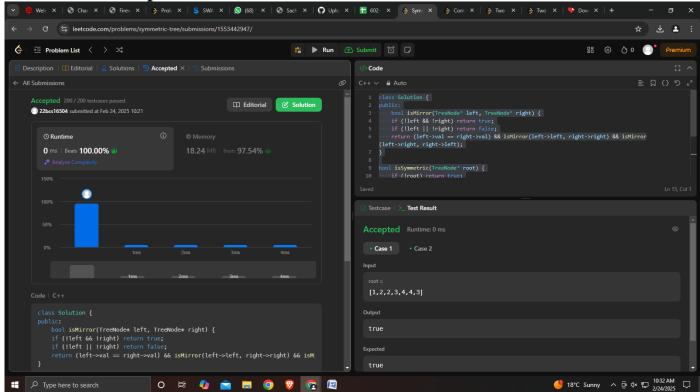
Contains duplicate

Two Sum

2. Source Code:

```
class Solution {
public:
    bool isMirror(TreeNode* left, TreeNode* right) {
    if (!left && !right) return true;
    if (!left || !right) return false;
    return (left->val == right->val) && isMirror(left->left, right->right) && isMirror(left->right, right->left);
}
bool isSymmetric(TreeNode* root) {
    if (!root) return true;
    return isMirror(root->left, root->right);
}
};
```

3. Screenshots of outputs:

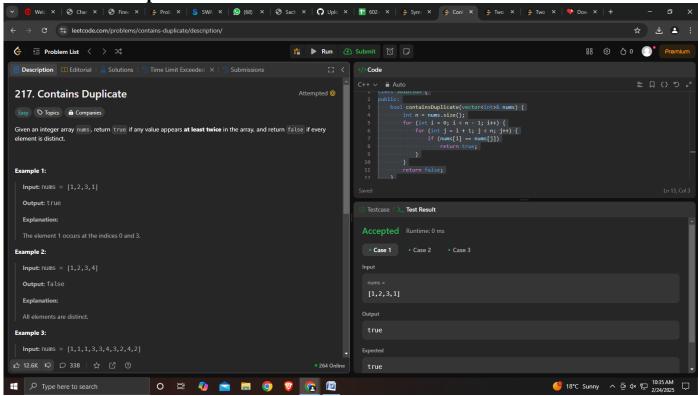


2. Aim: Given an integer array nums, return true if any value appears at least twice in the array, and return false if every element is distinct.

Source Code:



Screenshots of outputs:



3. Given an array of integers nums and an integer target, return indices of the two numbers such that they add up to target.

You may assume that each input would have exactly one solution, and you may not use the same element twice.

You can return the answer in any order

Source Code:

```
class Solution{
public:
vector<int> twoSum(vector<int>& nums, int target) {
    for (int i = 0; i < nums.size(); ++i) {
        for (int j = i + 1; j < nums.size(); ++j) {
            if (nums[i] + nums[j] == target) {
                return {i, j};
                }
        }
    }
    return {};
}</pre>
```



4. Screenshots of outputs:

