

Qualcomm Interview Coding Questions

- Code 1:- [Find length of Loop](#)

```
class Solution {
public:
    int lengthOfLoop(Node *head) {
        Node* slow = head;
        Node* fast = head;

        while (fast && fast->next) {
            slow = slow->next;
            fast = fast->next->next;

            if (slow == fast) {
                int count = 1;
                Node* temp = slow->next;
                while (temp != slow) {
                    count++;
                    temp = temp->next;
                }
                return count;
            }
        }
        return 0;
    }
};
```

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Output:-

The screenshot shows a dark-themed 'Output Window' with a title bar containing a close button. Below the title bar are three tabs: 'Compilation Results' (selected), 'Custom Input', and 'Y.O.G.I. (AI Bot)'. The main content area displays 'Problem Solved Successfully' with a green checkmark icon and a 'Suggest Feedback' link. Below this, four statistics are shown in a 2x2 grid: 'Test Cases Passed' (1115 / 1115), 'Attempts : Correct / Total' (1 / 3) with 'Accuracy : 33%' below it, 'Points Scored' (2 / 2) with an information icon, and 'Time Taken' (0.12). At the bottom left, it says 'Your Total Score: 2' with an upward arrow, and at the bottom center, there is a 'Solve Next' button.

Test Cases Passed	Attempts : Correct / Total
1115 / 1115	1 / 3
	Accuracy : 33%

Points Scored	Time Taken
2 / 2	0.12

Your Total Score: 2 ↑

Solve Next

- Code 2:- [Implement strstr](#)

```
class Solution {
public:
    int firstOccurence(string& txt, string& pat) {
        // code here

        int n = txt.size();
        int m = pat.size();

        if (m == 0) return 0;
```

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```
for (int i = 0; i <= n - m; i++) {  
    int j = 0;  
    while (j < m && txt[i+j]==pat[j]) {  
        j++;  
    }  
    if (j == m) {  
        return i;  
    }  
}  
return -1;  
}  
};
```

Output:-

The screenshot shows a dark-themed interface for a coding platform. At the top, there are three tabs: 'Compilation Results' (highlighted in blue), 'Custom Input', and 'Y.O.G.I. (AI Bot)'. Below the tabs, a message 'Problem Solved Successfully' is displayed with a green checkmark icon. To the right of this message is a link 'Suggest Feedback'. Below the message, there are three boxes showing performance metrics: 'Test Cases Passed' with the value '1111 / 1111', 'Attempts : Correct / Total' with the value '2 / 3', and 'Accuracy : 66%'. At the bottom left, there is a box for 'Time Taken' with the value '0.02'.

Metric	Value
Test Cases Passed	1111 / 1111
Attempts : Correct / Total	2 / 3
Accuracy	66%
Time Taken	0.02

- Code 3:- [Left View of Binary Tree](#)

/* A binary tree node

struct Node

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```
{
    int data;

    struct Node* left;

    struct Node* right;

    Node(int x){
        data = x;
        left = right = NULL;
    }
};

*/

#include <vector>
#include <queue>
using namespace std;

class Solution {
public:
    vector<int> leftView(Node *root) {
        vector<int> result;

        if(root == nullptr)
            return result;

        queue<Node*> q;
        q.push(root);

        while(!q.empty()) {
```

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```
int n = q.size();

for(int i = 0; i < n; i++) {
    Node* node = q.front();
    q.pop();

    if(i == 0)
        result.push_back(node->data);

    if(node->left != nullptr)
        q.push(node->left);
    if(node->right != nullptr)
        q.push(node->right);
}

return result;
};
```

Output:-


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Output Window

Compilation Results

Custom Input

Y.O.G.I. (AI Bot)

Problem Solved Successfully 

[Suggest Feedback](#)

Test Cases Passed

1115 / 1115

Attempts : Correct / Total

2 / 4

Accuracy : 50%

Time Taken

0.15

- Code 4:- [Check for BST](#)

```
class Solution {
public:
    long long reversedBits(long long x) {
        long long result = 0;
        for(int i = 0; i < 32; i++) {
            int bit = (x >> i) & 1;
            result |= ((long long)bit << (31 - i));
        }
        return result;
    }
};
```

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Output:-

Output Window

Compilation Results

Custom Input

Y.O.G.I. (AI Bot)

Problem Solved Successfully

[Suggest Feedback](#)

Test Cases Passed

1115 / 1115

Attempts : Correct / Total

1 / 3

Accuracy : 33%

Points Scored

2 / 2

Your Total Score: 7

Time Taken

0.02

Solve Next

- Code 5:- [Reverse Bits](#)

```
class Solution {
public:
    Node* reverseList(Node* head) {
        Node* prev = NULL;
        Node* curr = head;
        Node* next = NULL;

        while (curr != NULL) {
            next = curr->next;
            curr->next = prev;
        }
    }
};
```

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```
prev = curr;

curr = next;

}

return prev;

};
```


Output:-

Output Window

Compilation Results

Custom Input

Y.O.G.I. (AI Bot)

Problem Solved Successfully 

[Suggest Feedback](#)


Test Cases Passed

1115 / 1115


Attempts : Correct / Total

1 / 3

Accuracy : 33%

Points Scored 

2 / 2

Your Total Score: 9 

Time Taken

0.11

Solve Next

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- Code:- 6 [Reverse a linked list](#)

```
#include <algorithm>

using namespace std;

class Solution {
public:
    bool isSubset(vector<int> &a, vector<int> &b) {
        sort(a.begin(), a.end());
        sort(b.begin(), b.end());

        int n = a.size();
        int m = b.size();

        int i = 0;
        int j = 0;

        while (i < n && j < m) {
            if (a[i] == b[j]) {
                i++;
                j++;
            } else if (a[i] < b[j]) {
                i++;
            } else {
                return false;
            }
        }
    }
}
```

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```
        return (j == m);  
    }  
};
```


Output:-

Output Window

Compilation Results

Custom Input

Y.O.G.I. (AI Bot)

Problem Solved Successfully 

[Suggest Feedback](#)


Test Cases Passed

1114 / 1114


Attempts : Correct / Total

1 / 4

Accuracy : 25%

Points Scored 

1 / 1

Your Total Score: 10 

Time Taken

0.07

Solve Next

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- Code 7:- [Array Subset of another array](#)

```
#include <bitset>
```

```
using namespace std;
```

```
class Solution {
```

```
public:
```

```
int setBits(int n) {
```

```
    int result[32];
```

```
    int temp = 0, i = 0, count = 0;
```

```
    while (n != 0) {
```

```
        temp = n % 2;
```

```
        result[i] = temp;
```

```
        i++;
```

```
        n = n / 2;
```

```
    }
```

```
    for (int j = 0; j < i; j++) {
```

```
        if (result[j] == 1) {
```

```
            count++;
```

```
        }
```

```
    }
```

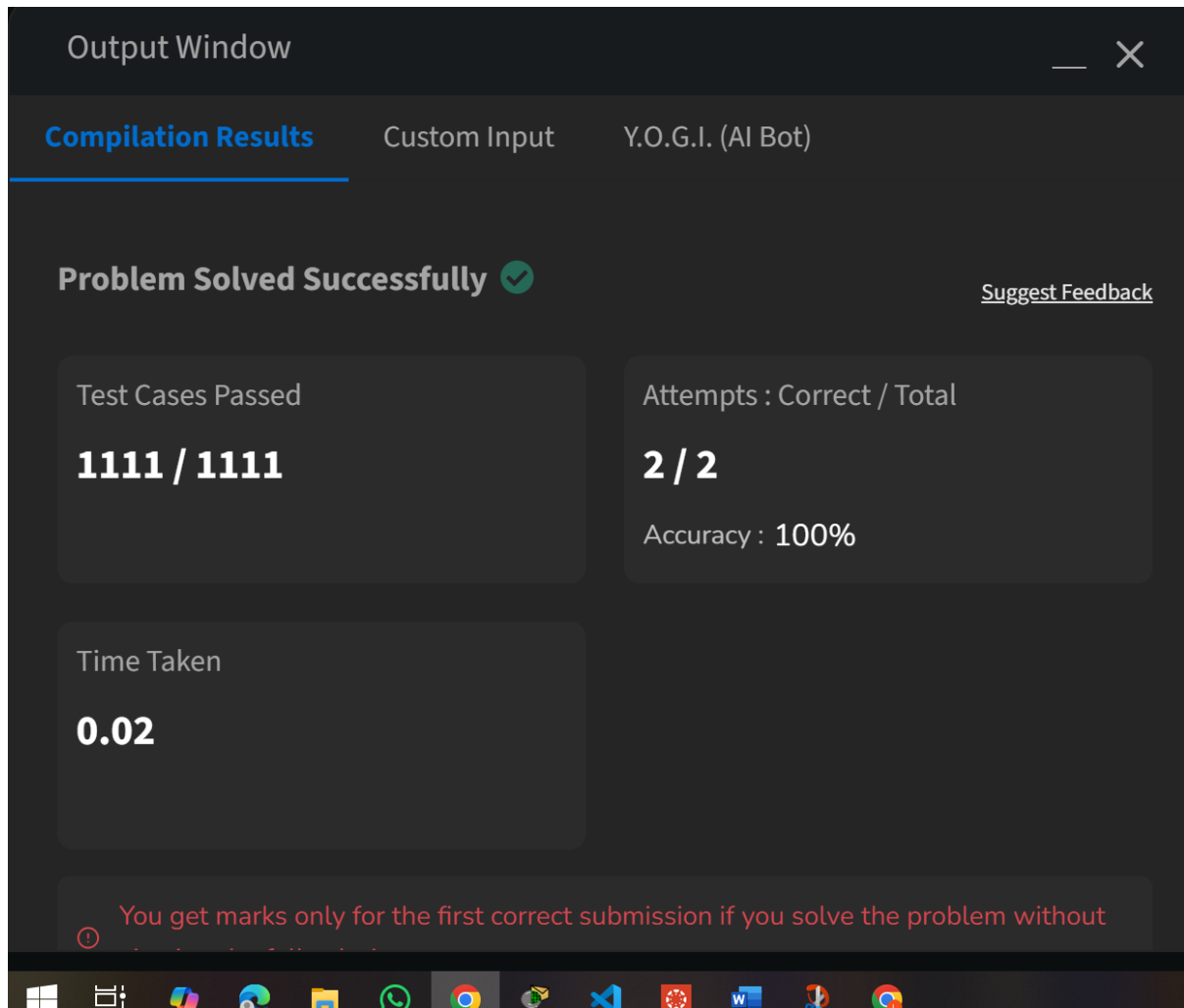
```
    return count;
```

```
}
```

```
};
```

Qualcomm Interview Coding Questions

Output:-



- Code 8 :- [Set Bits](#)

```
class Solution {
public:
    int missingNum(vector<int>& arr) {
        int n = arr.size() + 1;
        int xor_all = 0;
        int xor_arr = 0;

        for (int i = 1; i <= n; i++) {
```

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```
xor_all ^= i;  
  
}  
  
for (int x : arr) {  
    xor_arr ^= x;  
}  
  
return xor_all ^ xor_arr;  
}  
};
```


Output:-

Output Window

Compilation Results

Custom Input

Y.O.G.I. (AI Bot)

Problem Solved Successfully 

[Suggest Feedback](#)


Test Cases Passed

1115 / 1115


Attempts : Correct / Total

1 / 2

Accuracy : 50%

Points Scored 

2 / 2

Your Total Score: **14** 

Time Taken

0.2

Solve Next