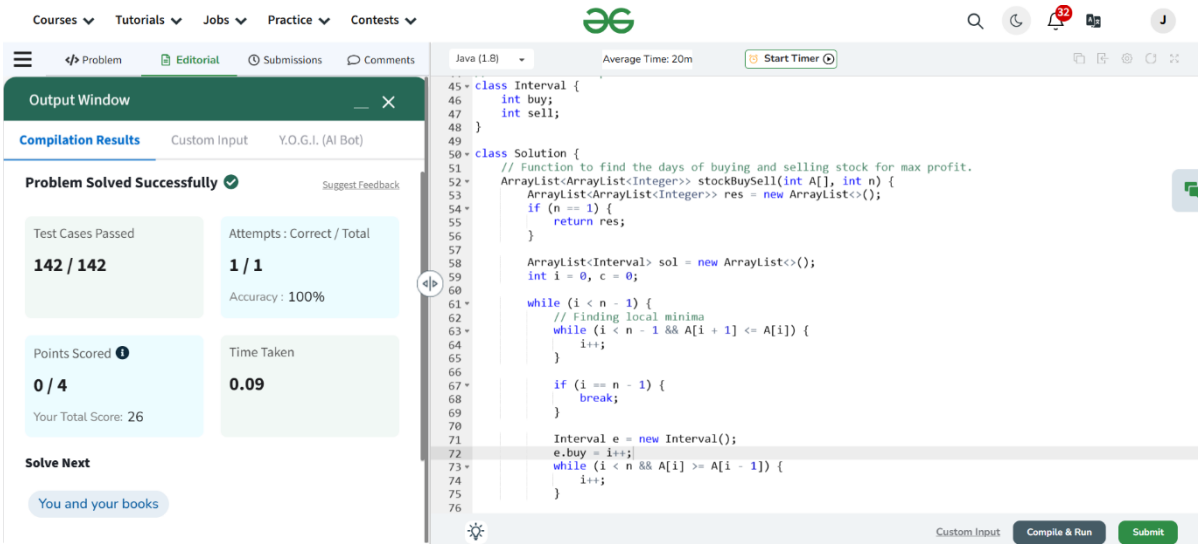
DSA CODING PRACTICE – 4

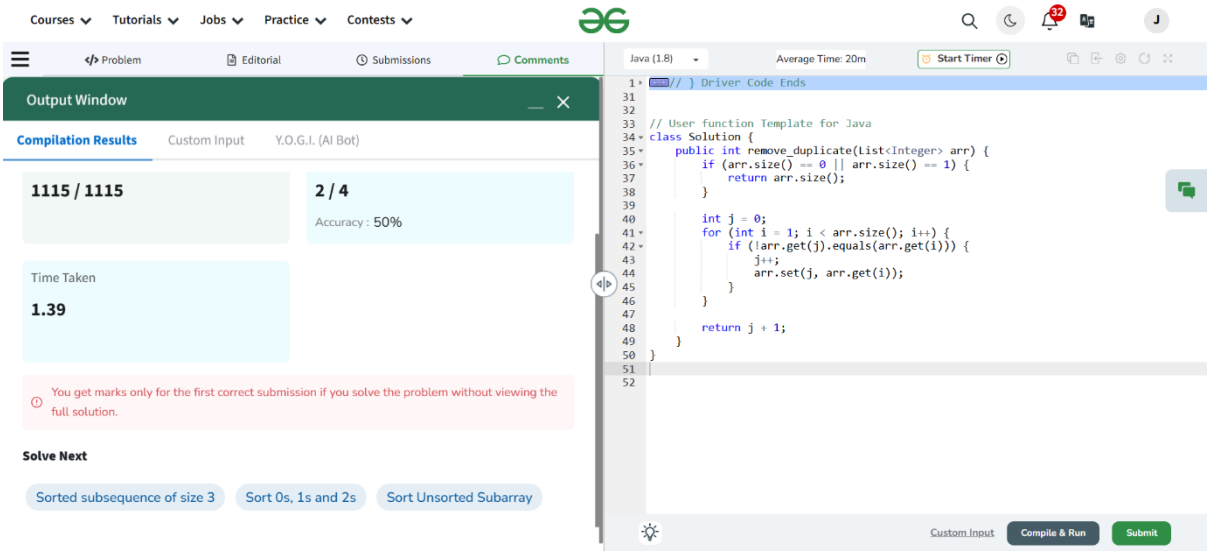
1.Stock Buy and Sell (Medium level)

```
class Interval {
    int buy;
    int sell;
}

class Solution {
    // Function to find the days of buying and selling stock for max profit.
    ArrayList<ArrayList<Integer>> stockBuySell(int A[], int n) {
        ArrayList<ArrayList<Integer>> res = new ArrayList<>();
        if (n == 1) {
            return res;
        }

        ArrayList<Interval> sol = new ArrayList<>();
        int i = 0, c = 0;

        while (i < n - 1) {
            // Finding local minima
            while (i < n - 1 && A[i + 1] <= A[i]) {
                i++;
            }

            if (i == n - 1) {
                break;
            }

            Interval e = new Interval();
            e.buy = i++;
            while (i < n && A[i] >= A[i - 1]) {
                i++;
            }

            e.sell = i - 1;
            sol.add(e);
            c++;
        }

        if (c == 0) {
            return res;
        } else {
            for (int j = 0; j < sol.size(); j++) {
                res.add(new ArrayList<Integer>());
                res.get(j).add(0, sol.get(j).buy);
                res.get(j).add(1, sol.get(j).sell);
            }
        }

        return res;
    }
}
```

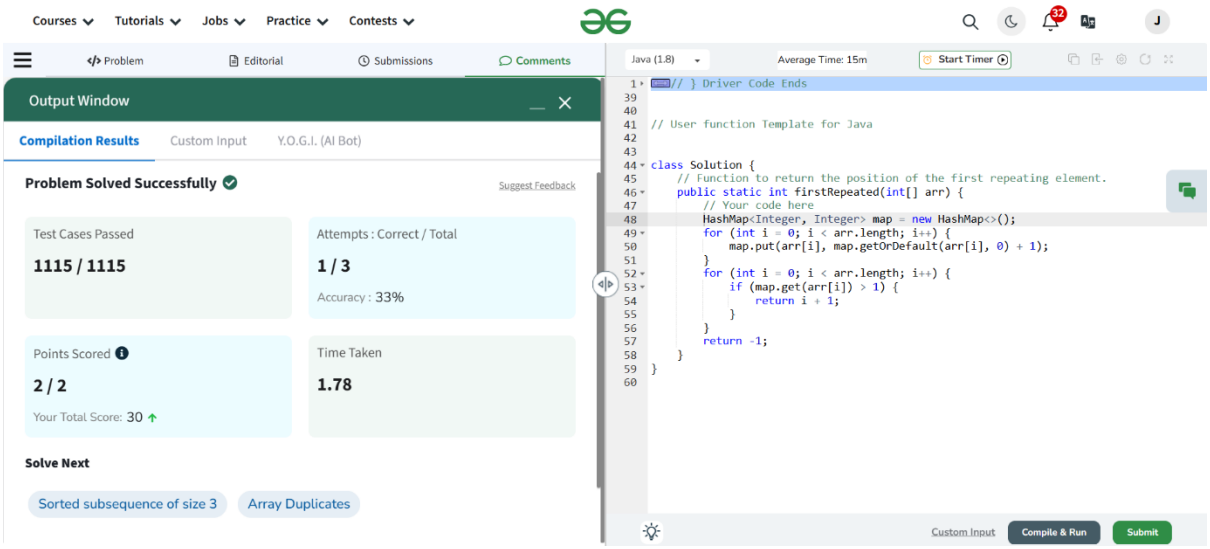
OUTPUT :



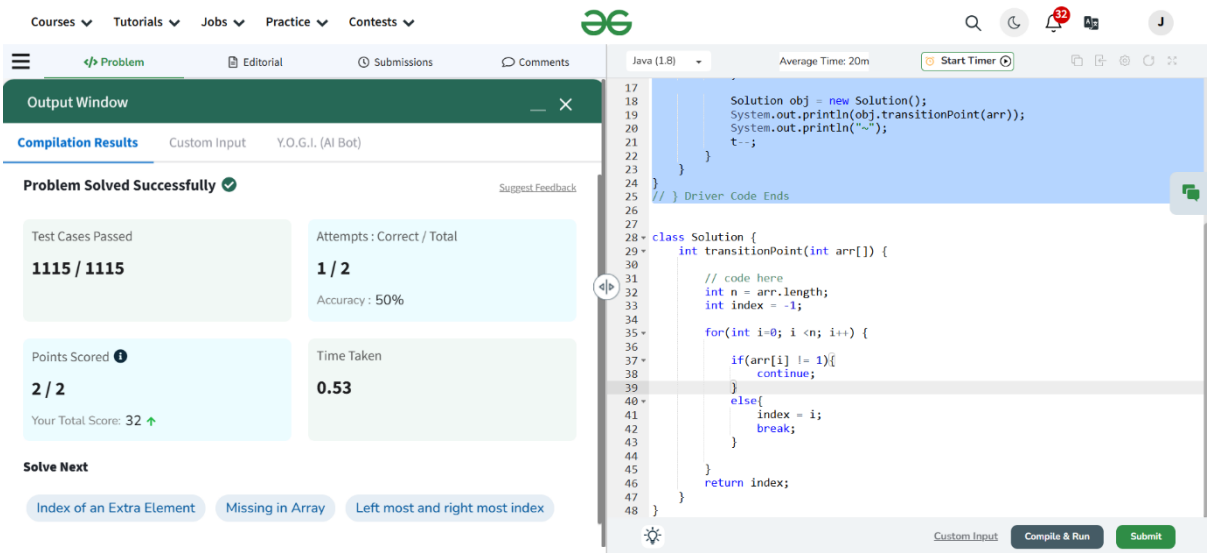
2. Remove Duplicates Sorted Array: (Easy level)



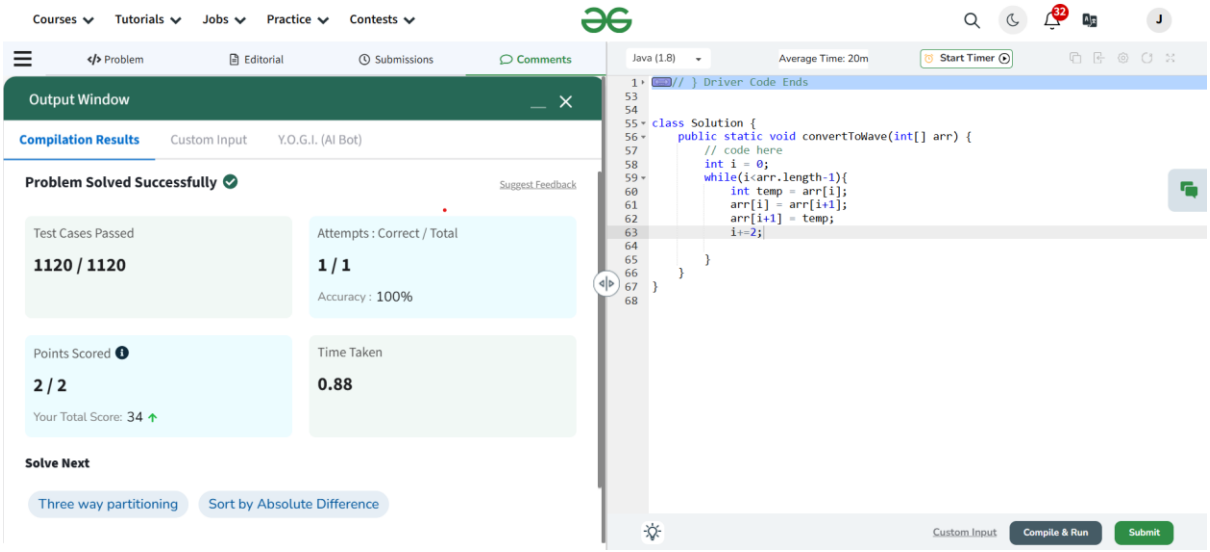
3. First Repeating Element : (Easy level)



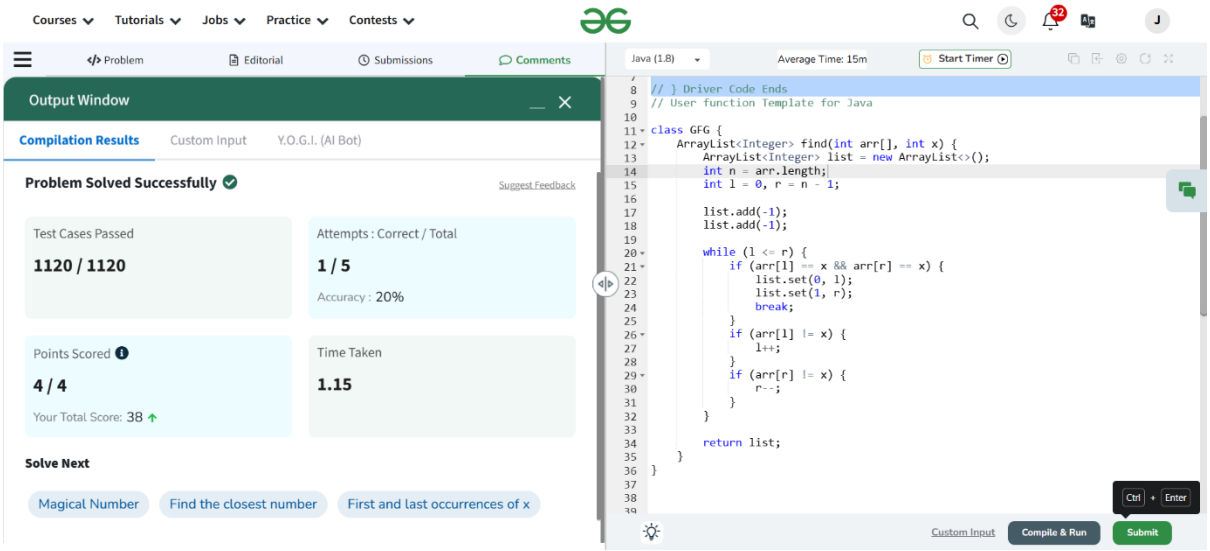
4.Find Transition Point : (Easy Level)



5. Wave Array : (Easy Level)



6. First and Last Occurrences



7. Coin Change : (Medium Level)