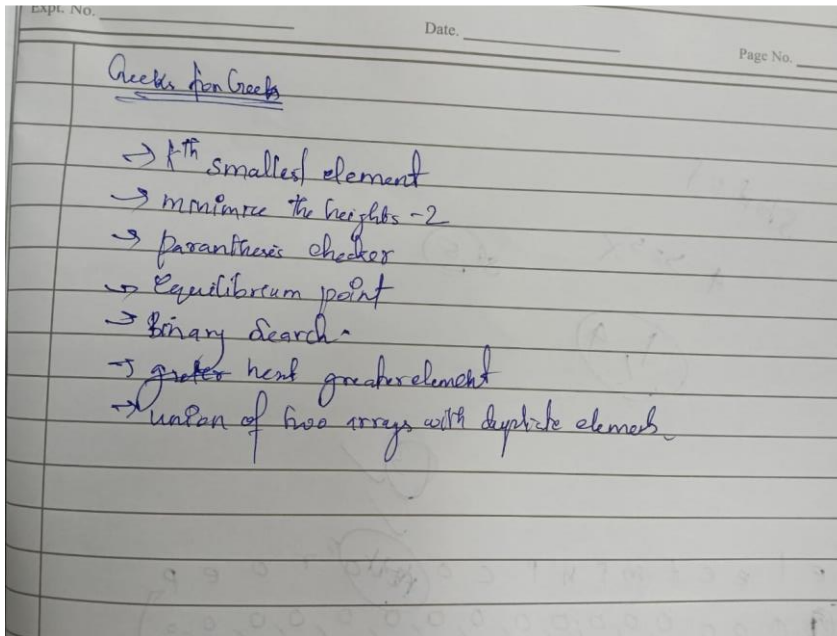


DSA Practice

Date: 13/11/2024

Problems:



Problem 1:

```
class Solution {  
    public static int kthSmallest(int[] arr, int k) {  
        // Your code here  
        Arrays.sort(arr);  
        return arr[k-1];  
    }  
}
```

Output:

The screenshot shows the GeeksforGeeks website interface. On the left, the 'Output Window' displays 'Problem Solved Successfully' with a green checkmark. It includes statistics: 'Test Cases Passed: 1110 / 1110', 'Attempts: Correct / Total: 1 / 1', 'Accuracy: 100%', 'Points Scored: 4 / 4', and 'Time Taken: 0.25'. Below these, it says 'Your Total Score: 37' and 'Solve Next' with buttons for 'Smallest Positive Missing Number', 'Valid Pair Sum', and 'Optimal Array'. On the right, the code editor shows a Java solution for the 'Kth Smallest Element' problem. The code includes a driver code and a user function template for Java. The solution class 'Solution' has a static method 'kthSmallest' that sorts the array and returns the k-th smallest element.

Problem 2:

Output:

Problem 3:

```
class Solution {  
    // Function to check if brackets are balanced or not.  
    static boolean isParenthesisBalanced(String s) {  
        // code here  
        int n = s.length();  
        Stack<Character> stk = new Stack<>();  
        for(char ch : s.toCharArray()){  
            if(ch=='(' || ch=='{' || ch=='['){  
                stk.push(ch);  
            }else if (ch == ')') {  
                if (stk.isEmpty() || stk.pop() != '(') {  
                    return false;  
                }  
            }  
        }  
    }  
}
```

```

    } else if (ch == '}') {
        if (stk.isEmpty() || stk.pop() != '{') {
            return false;
        }
    } else if (ch == ']') {
        if (stk.isEmpty() || stk.pop() != '[') {
            return false;
        }
    }
    return stk.isEmpty();
}
}

```

Output:

The screenshot displays a web browser window with the URL <https://www.geeksforgeeks.org/problems/parenthesis-checker2744/1>. The page shows a successful submission for the 'Parenthesis Checker' problem. The left sidebar contains the following information:

- Problem Solved Successfully** (with a green checkmark icon)
- Test Cases Passed:** 1111 / 1111
- Attempts:** Correct / Total: 1 / 1
- Accuracy:** 100%
- Points Scored:** 2 / 2
- Your Total Score:** 39 (with an upward arrow icon)
- Time Taken:** 0.35
- Solve Next:** Get min at pop, Equal point in a string of brackets, Easy string

The right sidebar shows the Java code for the solution, which is a class named `Solution` with a static method `isParenthesisBalanced`. The code uses a `Stack` to check if the input string `s` has balanced parentheses. The code is as follows:

```

1 // Driver Code Ends
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3
4 class Solution {
5     // Function to check if brackets are balanced or not.
6     static boolean isParenthesisBalanced(String s) {
7         // code here
8         int n = s.length();
9         Stack<Character> stk = new Stack<>();
10        for(char ch : s.toCharArray()){
11            if(ch=='(' || ch=='{' || ch=='['){
12                stk.push(ch);
13            }
14            else if (ch == ')') {
15                if (stk.isEmpty() || stk.pop() != '(') {
16                    return false;
17                }
18            }
19            else if (ch == '}') {
20                if (stk.isEmpty() || stk.pop() != '{') {
21                    return false;
22                }
23            }
24            else if (ch == ']') {
25                if (stk.isEmpty() || stk.pop() != '[') {
26                    return false;
27                }
28            }
29        }
30        return stk.isEmpty();
31    }
32 }
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```

Problem 4:

```

class Solution {

```

```
// Function to find equilibrium point in the array.

public static int equilibriumPoint(int arr[]) {

    // code here

    int n = arr.length;

    int sum=0;

    int tot = Arrays.stream(arr).sum();

    for(int i=0;i<n;i++){

        if(sum+arr[i]+sum==tot){

            return i+1;

        }

        sum+=arr[i];

    }

    return -1;

}

}
```

Output:

The screenshot shows the GeeksforGeeks online IDE interface. On the left, the 'Output Window' displays the following results:

- Compilation Results:** Custom Input, Y.O.G.I. (AI Bot)
- Problem Solved Successfully** (with a green checkmark)
- Test Cases Passed:** 1111 / 1111
- Attempts:** Correct / Total: 1 / 2
- Accuracy:** 50%
- Points Scored:** 2 / 2
- Time Taken:** 0.76
- Your Total Score:** 41
- Solve Next:** Array Leaders, Two Repeated Elements, Indexes of Subarray Sum

On the right, the code editor shows the following Java code:

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```

Problem 5:

```
class Solution {  
    public int binarysearch(int[] arr, int k) {  
        // Code Here  
  
        int left=0;  
        int right=arr.length-1;  
        while(left<=right){  
            int mid = (left+right)/2;  
            if(arr[mid]==k){  
                return mid;  
            }else if(arr[mid]<k){  
                left=mid+1;  
            }else{  
                right=mid-1;  
            }  
        }  
        return -1;  
    }  
}
```

Output:

The screenshot shows the GeeksforGeeks online IDE interface. On the left, the 'Output Window' displays 'Compilation Results' for a problem titled 'Binary Search'. It indicates 'Problem Solved Successfully' with 1115/1115 test cases passed, 2/2 points scored, and a time taken of 0.7 seconds. The right panel shows the Java code for a binary search function. The bottom status bar indicates the system is at 80°F, 13-11-2024, 22:12.

Problem 6:

```
class Solution {
```

```
    // Function to find the next greater element for each element of the array.
```

```
    public ArrayList<Integer> nextLargerElement(int[] arr) {
```

```
        // code here
```

```
        int n = arr.length;
```

```
        int[] ans = new int[n];
```

```
        Stack<Integer> stk = new Stack<>();
```

```
        for(int i=n-1;i>=0;i--){
```

```
            while(!stk.isEmpty() && stk.peek()<=arr[i]){
```

```
                stk.pop();
```

```
            }
```

```
            if(stk.isEmpty()){
```

```
                ans[i]=-1;
```

```
            }else{
```

```
                ans[i]=stk.peek();
```

```

    }

    stk.push(arr[i]);
}

ArrayList<Integer> temp = new ArrayList<>();

for(int no : ans){
    temp.add(no);
}

return temp;
}
}

```

Output:

The screenshot shows the GeeksforGeeks website interface. On the left, the 'Output Window' displays the following information:

- Problem Solved Successfully** (with a green checkmark)
- Test Cases Passed:** 1110 / 1110
- Attempts:** Correct / Total: 1 / 5
- Accuracy:** 20%
- Points Scored:** 4 / 4
- Time Taken:** 1.49
- Your Total Score:** 47
- Solve Next:** Get Min from Stack, Maximum Index, Next Greater Element in Circular Array

The right pane shows the Java code for the solution, which is as follows:

```

1 // } Driver Code Ends
2
3
4 class Solution {
5     // Function to find the next greater element for each element of the array.
6     public ArrayList<Integer> nextLargerElement(int[] arr) {
7         // code here
8         int n = arr.length;
9         int[] ans = new int[n];
10        Stack<Integer> stk = new Stack<>();
11        for(int i=n-1;i>=0;i--){
12            while(!stk.isEmpty() && stk.peek()<=arr[i]){
13                stk.pop();
14            }
15            if(stk.isEmpty()){
16                ans[i]=-1;
17            }else{
18                ans[i]=stk.peek();
19            }
20            stk.push(arr[i]);
21        }
22        ArrayList<Integer> temp = new ArrayList<>();
23        for(int no : ans){
24            temp.add(no);
25        }
26        return temp;
27    }
28 }

```

Problem 7:

```

class Solution {

    public static int findUnion(int a[], int b[]) {

        // code here

        int n = a.length;

```

```

Set<Integer> set = new HashSet<>();

for(int i=0;i<n;i++){

    set.add(a[i]);

}

for(int no : b){

    set.add(no);

}

return set.size();

}

```

Output:

The screenshot shows the GeeksforGeeks website interface for the problem 'Union of Two Arrays with Duplicates'. The left sidebar indicates the problem has been solved successfully with 1111/1111 test cases passed, 1/1 attempts, 100% accuracy, 2/2 points scored, and a time taken of 0.95. The right pane displays the Java code for the solution, which uses a HashSet to find the union of two arrays.

Problem Solved Successfully

Test Cases Passed: 1111 / 1111

Attempts : Correct / Total: 1 / 1

Accuracy : 100%

Points Scored: 2 / 2

Your Total Score: 49

Time Taken: 0.95

Solve Next

- Intersection of Two arrays with Distinct Elements
- LCM of given array elements
- Perfect Squares in a Range

Code Snippet:

```

// Driver Code Ends
// User function Template for Java
class Solution {
    public static int findUnion(int a[], int b[]) {
        // code here
        int n = a.length;
        Set<Integer> set = new HashSet<>();
        for(int i=0;i<n;i++){
            set.add(a[i]);
        }
        for(int no : b){
            set.add(no);
        }
        return set.size();
    }
}

```