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FL\_IOT-603/A

### **Worksheet 5**

#### **389. Find the Difference**

Code:

```
import java.lang.*;

class Solution {

    public char findTheDifference(String s, String t) {

        int sLen = 0;

        int tLen = 0;

        for (int i = 0; i < s.length(); i++)

            sLen += s.charAt(i);

        for (int j = 0; j < t.length(); j++)

            tLen += t.charAt(j);

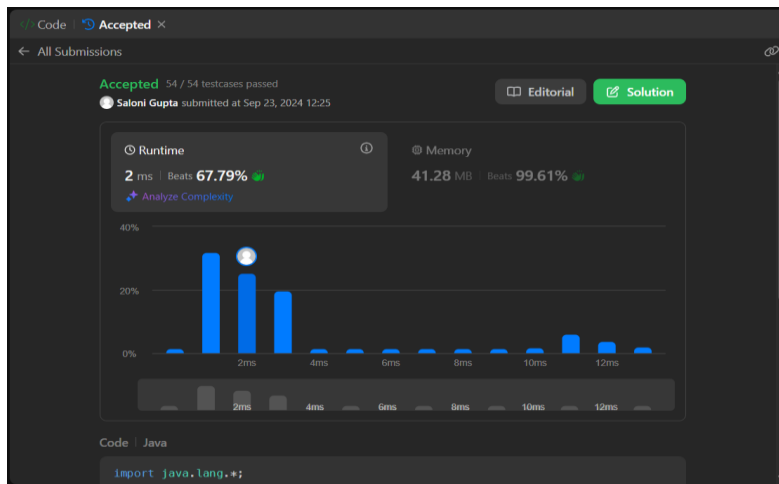
        int target = tLen - sLen;

        char tar = (char)target;

        return tar;

    }

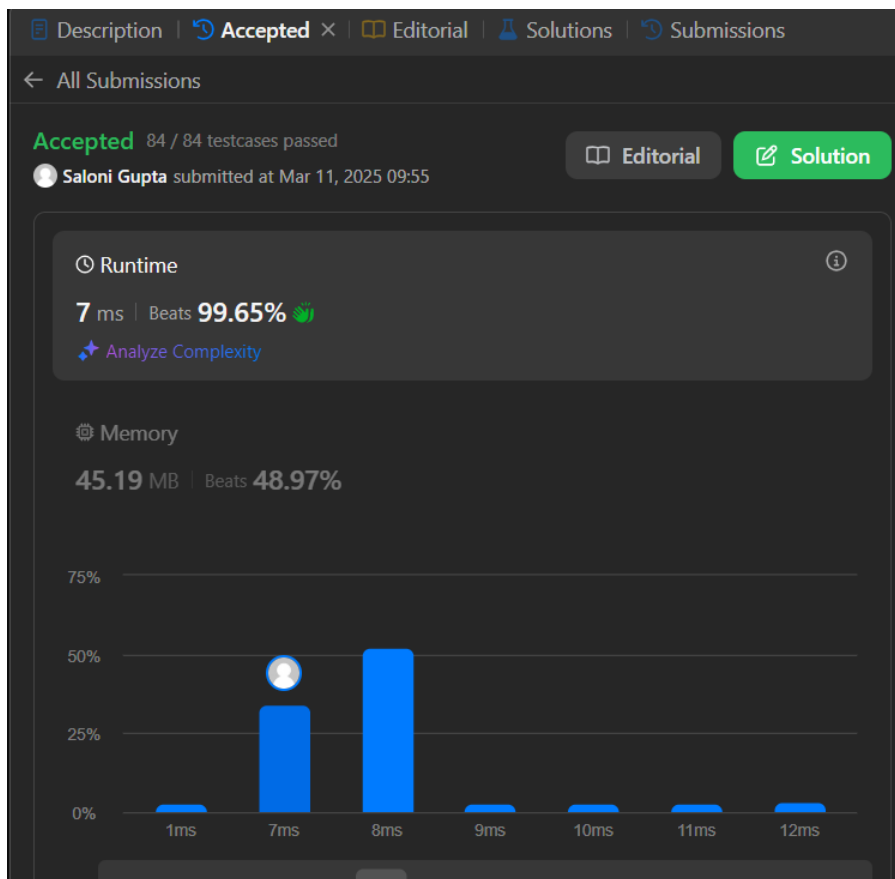
}
```



## 976. Largest Perimeter Triangle

Code:

```
class Solution {  
    public int largestPerimeter(int[] nums) {  
        Arrays.sort(nums);  
        for(int i = nums.length-1; i>1; i--){  
            if(nums[i] < nums[i-1] + nums[i-2])  
                return nums[i] + nums[i-1]+ nums[i-2];  
        }  
        return 0;  
    }  
}
```



#### 414. Third Maximum Number

Code:

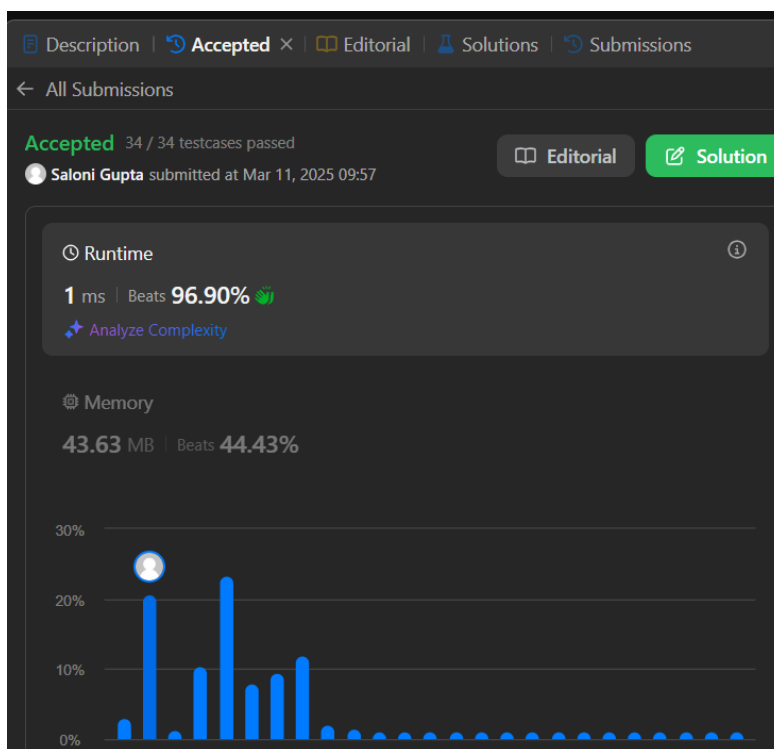
```
class Solution {
    public int thirdMax(int[] nums) {
        long max1 = Long.MIN_VALUE;
        long max2 = Long.MIN_VALUE;
        long max3 = Long.MIN_VALUE;
        for (int i = 0; i < nums.length; i++) {
            if (nums[i] > max1) {
                max3 = max2;
                max2 = max1;
                max1 = nums[i];
            } else if (nums[i] > max2 && nums[i] != max1) {
                max3 = max2;
            }
        }
        return max3 == Long.MIN_VALUE ? max2 : max3;
    }
}
```

```

        max2 = nums[i];
    } else if (nums[i] > max3 && nums[i] != max1 && nums[i] != max2) {
        max3 = nums[i];
    }
}

return max3 == Long.MIN_VALUE ? (int) max1 : (int) max3;
}
}

```



## 881. Boats to save people

**Code:**

```

class Solution {
    public int numRescueBoats(int[] people, int limit) {
        int boats = 0;
        Arrays.sort(people);
        int i=0,j=people.length-1;
        while(i<=j){

```

```
    if((people[j]+people[i])<=limit){  
        i++;  
    }  
    j--;  
    boats++;  
}  
return boats;  
}  
}
```

