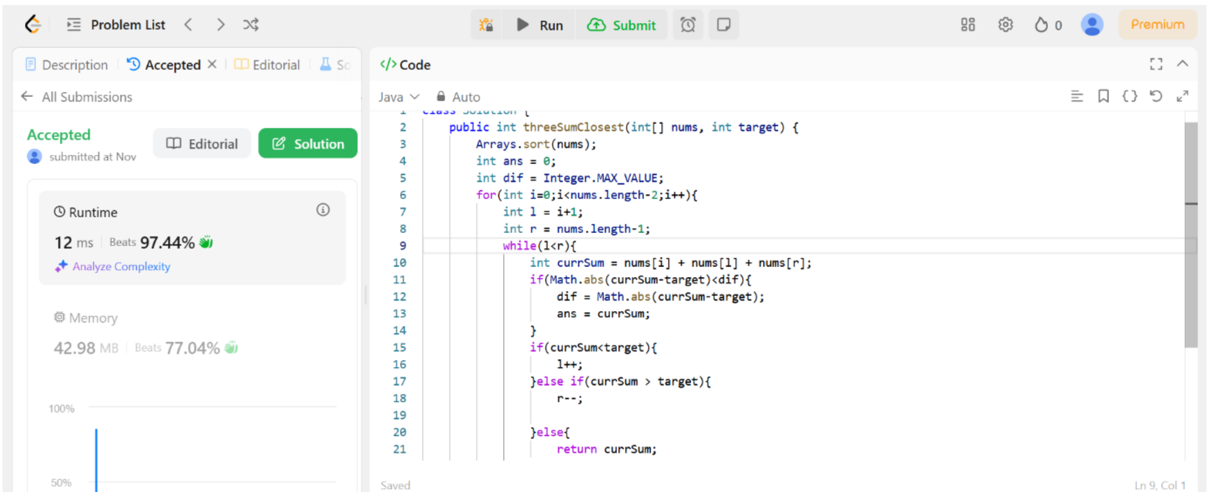
DSA CODING QUESTIONS PRACTICE – 8

1. 3 Closest Sum



Accepted
submitted at Nov

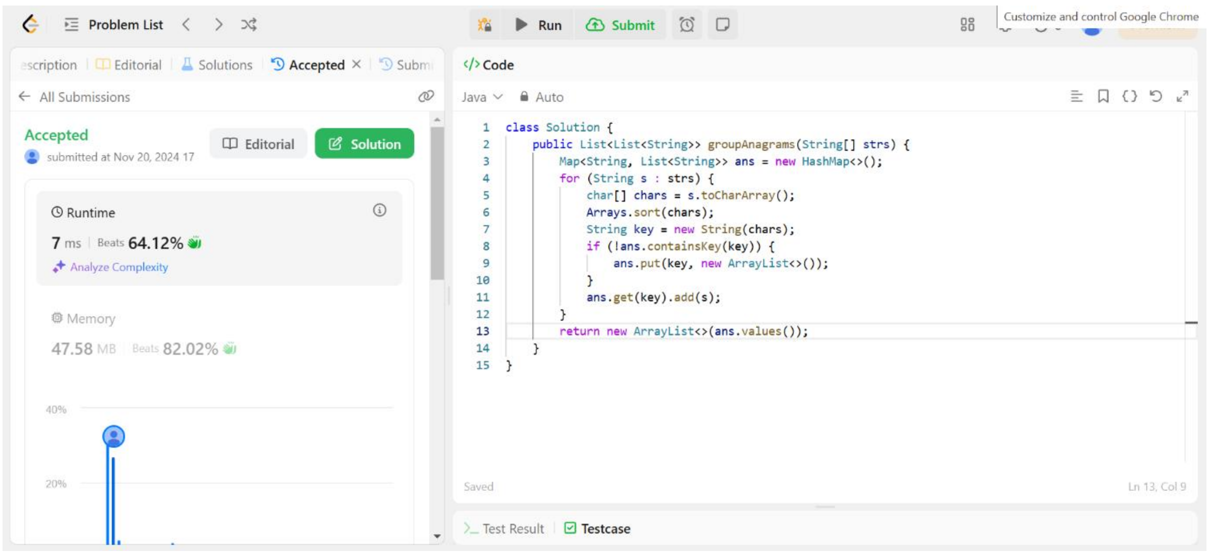
Runtime
12 ms | Beats 97.44%

Memory
42.98 MB | Beats 77.04%

```java
    public int threeSumClosest(int[] nums, int target) {
        Arrays.sort(nums);
        int ans = 0;
        int dif = Integer.MAX_VALUE;
        for(int i=0;i<nums.length-2;i++){
            int l = i+1;
            int r = nums.length-1;
            while(l<r){
                int currSum = nums[i] + nums[l] + nums[r];
                if(Math.abs(currSum-target)<dif){
                    dif = Math.abs(currSum-target);
                    ans = currSum;
                }
                if(currSum<target){
                    l++;
                }else if(currSum > target){
                    r--;

                }else{
                    return currSum;
```

2. Group Anagrams



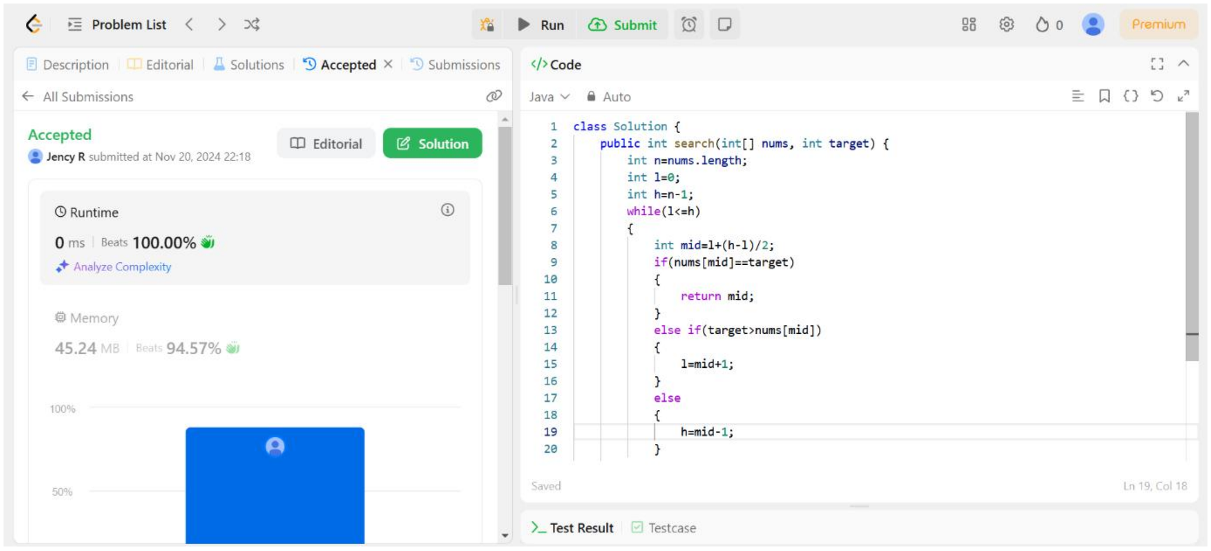
Accepted
submitted at Nov 20, 2024 17

Runtime
7 ms | Beats 64.12%

Memory
47.58 MB | Beats 82.02%

```java
class Solution {
    public List<List<String>> groupAnagrams(String[] strs) {
        Map<String, List<String>> ans = new HashMap<>();
        for (String s : strs) {
            char[] chars = s.toCharArray();
            Arrays.sort(chars);
            String key = new String(chars);
            if (!ans.containsKey(key)) {
                ans.put(key, new ArrayList<>());
            }
            ans.get(key).add(s);
        }
        return new ArrayList<>(ans.values());
    }
}
```

3. Interpolation Search



</>Code

Java Auto

Accepted

Jency R submitted at Nov 20, 2024 22:18

Runtime

0 ms | Beats 100.00%

Memory

45.24 MB | Beats 94.57%

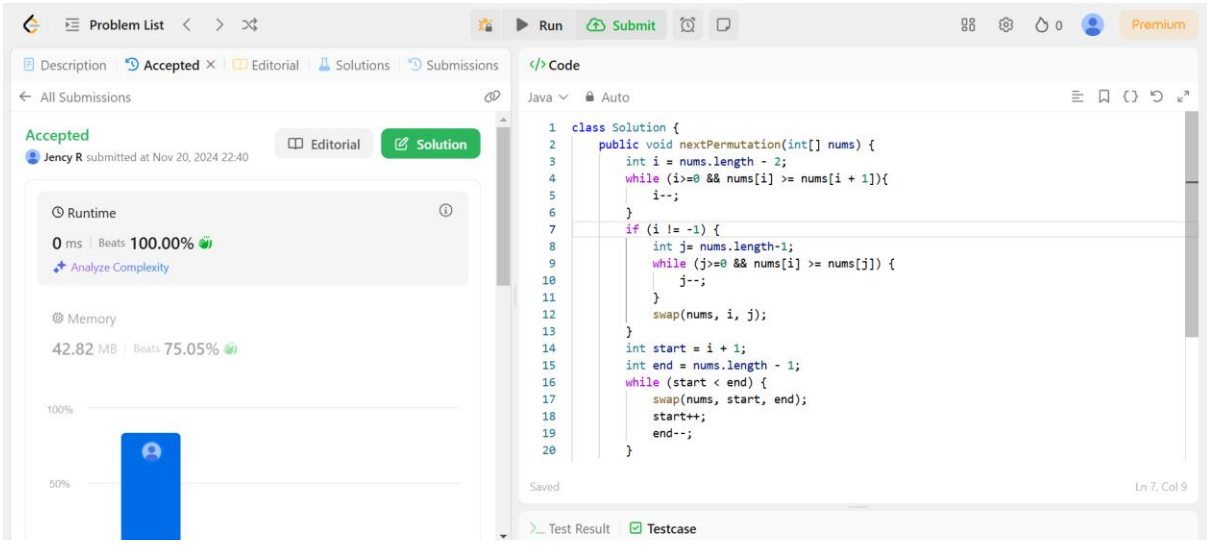
```java
class Solution {
    public int search(int[] nums, int target) {
        int n=nums.length;
        int l=0;
        int h=n-1;
        while(l<=h)
        {
            int mid=l+(h-l)/2;
            if(nums[mid]==target)
            {
                return mid;
            }
            else if(target>nums[mid])
            {
                l=mid+1;
            }
            else
            {
                h=mid-1;
            }
```

Saved

Ln 19, Col 18

Test Result | Testcase

4. Next permutation



</>Code

Java Auto

Accepted

Jency R submitted at Nov 20, 2024 22:40

Runtime

0 ms | Beats 100.00%

Memory

42.82 MB | Beats 75.05%

```java
class Solution {
    public void nextPermutation(int[] nums) {
        int i = nums.length - 2;
        while (i>=0 && nums[i] >= nums[i + 1]){
            i--;
        }
        if (i != -1) {
            int j= nums.length-1;
            while (j>=0 && nums[i] >= nums[j]) {
                j--;
            }
            swap(nums, i, j);
        }
        int start = i + 1;
        int end = nums.length - 1;
        while (start < end) {
            swap(nums, start, end);
            start++;
            end--;
        }
```

Saved

Ln 7, Col 9

Test Result | Testcase