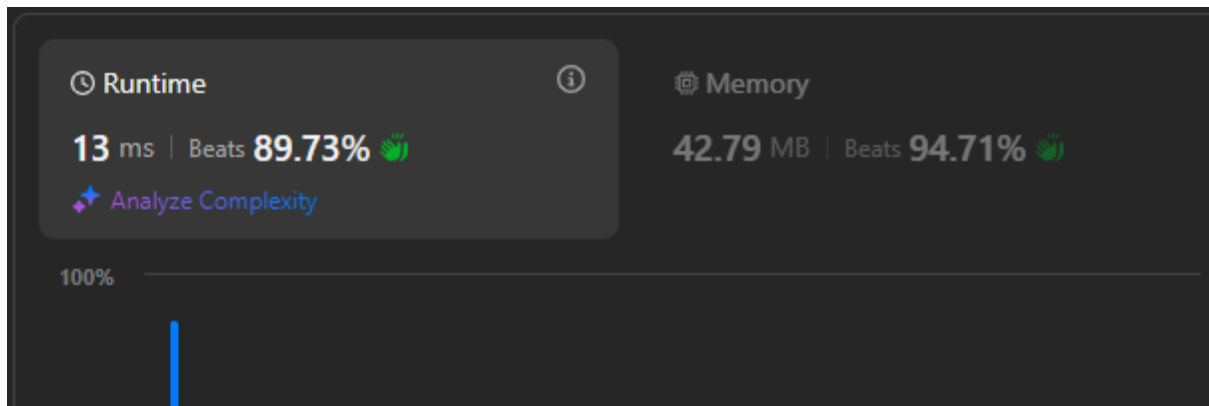


3SUM CLOSEST

CODE :

```
class Solution {
    public int threeSumClosest(int[] nums, int target) {
        Arrays.sort(nums);
        int ans = nums[0] + nums[1] + nums[2];
        int dif = Integer.MAX_VALUE;
        for(int i = 0 ; i<nums.length-2 ; i++){
            int j = i +1;
            int k = nums.length - 1;
            while(j<k){
                int s = nums[i] + nums[j] + nums[k];
                if(s==target){
                    return s;
                }
                if(s<target){
                    j++;
                }else{
                    k--;
                }
                int d = Math.abs(s-target);
                if(dif>d){
                    dif = d;
                    ans = s;
                }
            }
        }
        return ans;
    }
}
```

OUTPUT :

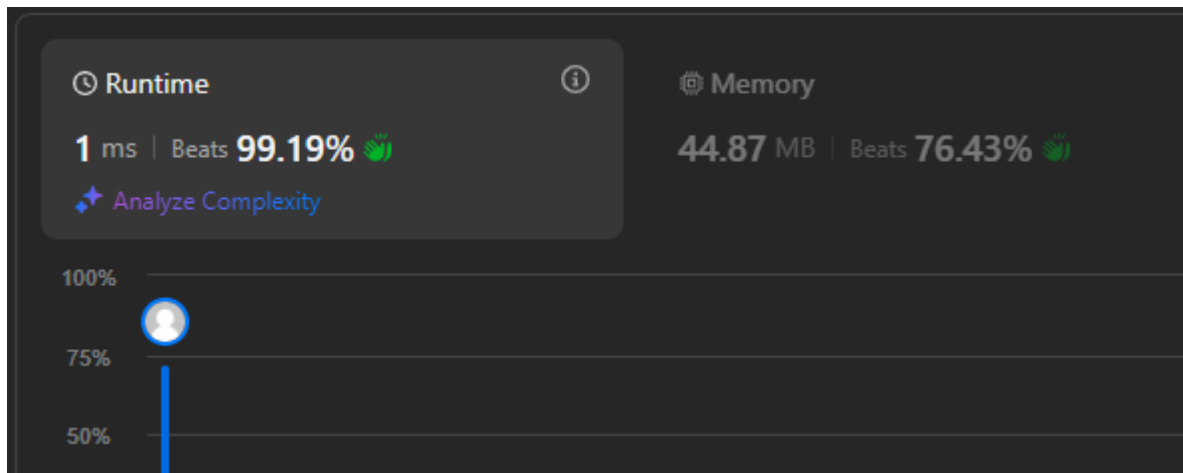


JUMP GAME II

CODE :

```
class Solution {
    public int jump(int[] nums) {
        int j = 0 , l = 0 , r = 0;
        while(r < nums.length - 1){
            int f = Integer.MIN_VALUE;
            for(int i = l ; i <= r ; i++){
                f = Math.max(i + nums[i] , f);
            }
            l = r + 1;
            r = f;
            j++;
        }
        return j;
    }
}
```

OUTPUT :

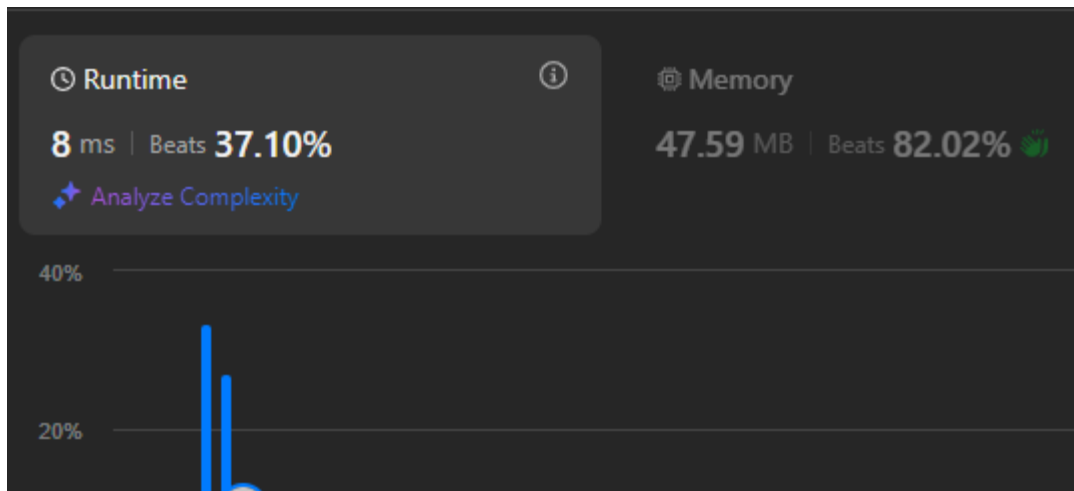


GROUP ANAGRAM'S

CODE :

```
class Solution {
    public List<List<String>> groupAnagrams(String[] strs) {
        HashMap<String , List<String>> hm = new HashMap<>();
        for(int i = 0 ; i<strs.length ; i++){
            char c[] = strs[i].toCharArray();
            Arrays.sort(c);
            String s= new String(c);
            if(hm.containsKey(s)){
                List<String> l = hm.get(s);
                l.add(strs[i]);
                hm.put(s,l);
            }else{
                List<String> l = new ArrayList<>();
                l.add(strs[i]);
                hm.put(s,l);
            }
        }
        List<List<String>> ans = new ArrayList<>();
        for(Map.Entry<String,List<String>> e : hm.entrySet()){
            ans.add(e.getValue());
        }
        return ans;
    }
}
```

OUTPUT :

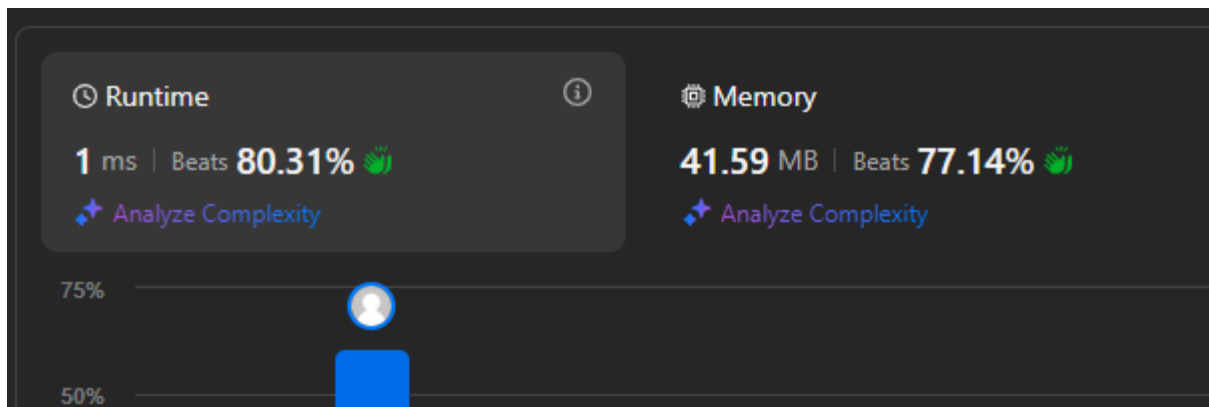


DECODE WAYS

CODE :

```
class Solution {
    public int numDecodings(String s) {
        int strLen = s.length();
        int[] dp = new int[strLen + 1];
        dp[0] = 1;
        if (s.charAt(0) != '0') {
            dp[1] = 1;
        } else {
            return 0;
        }
        for (int i = 2; i <= strLen; ++i) {
            if (s.charAt(i - 1) != '0') {
                dp[i] += dp[i - 1];
            }
            if (s.charAt(i - 2) == '1' ||
                (s.charAt(i - 2) == '2' && s.charAt(i - 1) <= '6')) {
                dp[i] += dp[i - 2];
            }
        }
        return dp[strLen];
    }
}
```

OUTPUT :

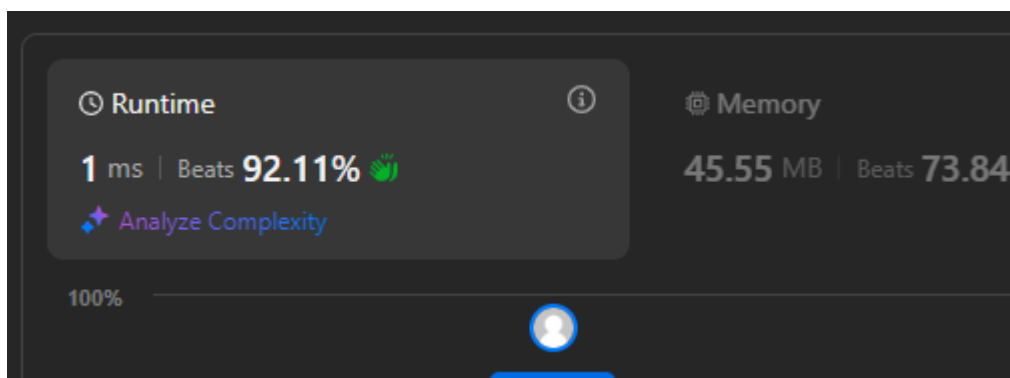


BEST TIME TO BUY AND SELL STOCKS II

CODE :

```
class Solution {
    public int maxProfit(int[] a) {
        int curr=a[0];
        int profit=0;
        for(int i=1;i<a.length;i++){
            if(a[i]<curr) curr=a[i];
            else if(a[i]>curr) {
                profit+=a[i]-curr;
                curr=a[i];
            }
        }
        return profit;
    }
}
```

OUTPUT :

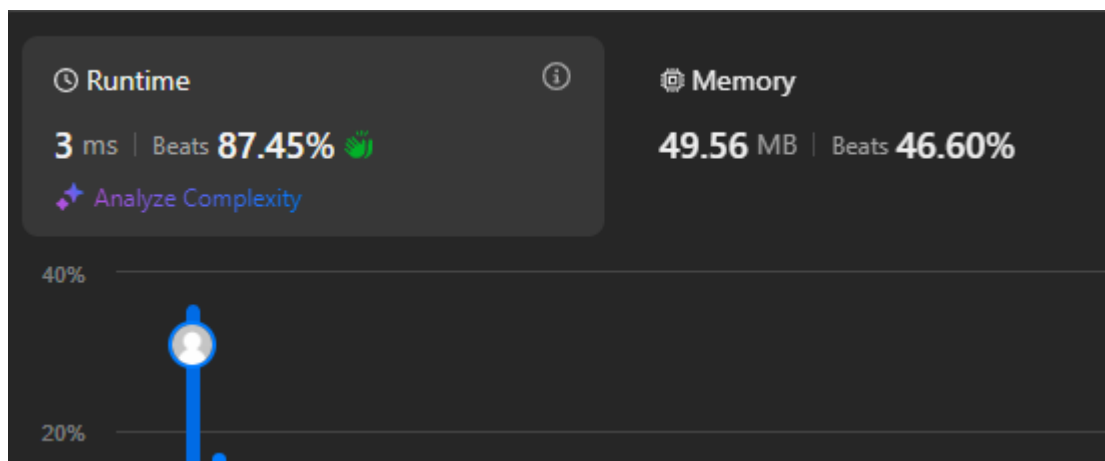


NUMBER OF ISLANDS

CODE :

```
class Solution {
    public void dfs(char[][] grid, int i, int j) {
        int m = grid.length, n = grid[0].length;
        if (i < 0 || j < 0 || i >= m || j >= n || grid[i][j] == '0') return;
        grid[i][j] = '0';
        dfs(grid, i + 1, j);
        dfs(grid, i - 1, j);
        dfs(grid, i, j + 1);
        dfs(grid, i, j - 1);
    }
    public int numIslands(char[][] grid) {
        int m = grid.length, n = grid[0].length, count = 0;
        for (int i = 0; i < m; i++) {
            for (int j = 0; j < n; j++) {
                if (grid[i][j] == '1') {
                    count++;
                    dfs(grid, i, j);
                }
            }
        }
        return count;
    }
}
```

OUTPUT :




MERGE SORT



CODE :

```
class Solution {
    void mergeSort(int arr[], int l, int r) {
        if (l < r) {
            int m = l + (r - l) / 2;
            mergeSort(arr, l, m);
            mergeSort(arr, m + 1, r);
            merge(arr, l, m, r);
        }
    }
    static void merge(int arr[], int l, int m, int r){
        int n1 = m - l + 1;
        int n2 = r - m;
        int L[] = new int[n1];
        int R[] = new int[n2];
        for (int i = 0; i < n1; ++i)
            L[i] = arr[l + i];
        for (int j = 0; j < n2; ++j)
            R[j] = arr[m + 1 + j];
        int i = 0, j = 0;
        int k = l;
        while (i < n1 && j < n2) {
            if (L[i] <= R[j]) {
                arr[k] = L[i];
                i++;
            }
            else {
                arr[k] = R[j];
                j++;
            }
            k++;
        }
        while (i < n1) {
            arr[k] = L[i];
            i++;
            k++;
        }
        while (j < n2) {
            arr[k] = R[j];
            j++;
            k++;
        }
    }
}
```

OUTPUT :

Problem Solved Successfully 

[Suggest Feedback](#)

Test Cases Passed 1115 / 1115	Attempts : Correct / Total 1 / 1 Accuracy : 100%
Points Scored  4 / 4 Your Total Score: 90 	Time Taken 1.32

QUICK SORT

CODE :

```
class Solution {
    static void quickSort(int arr[], int low, int high) {
        if(low<high){
            int pi = partition(arr,low,high);
            quickSort(arr,low,pi-1);
            quickSort(arr,pi+1,high);
        }
    }

    static int partition(int arr[], int low, int high) {
        int pivot = arr[high];
        int i = low - 1;
        for (int j = low; j <= high - 1; j++) {
            if (arr[j] < pivot) {
                i++;
                swap(arr, i, j);
            }
        }
        swap(arr, i + 1, high);
        return i + 1;
    }

    static void swap(int[] arr, int i, int j) {
        int temp = arr[i];
        arr[i] = arr[j];
        arr[j] = temp;
    }
}
```

OUTPUT :

Quick Sort

Difficulty: **Medium** Accuracy: **55.23%** Submissions: **236K+** Points: **4**

Implement Quick Sort, a Divide and Conquer algorithm, to sort an array, **arr[]** in ascending order. Given an array, **arr[]**, with starting index **low** and ending index **high**, complete the functions **partition()** and **quickSort()**. Use the last element as the pivot so that all elements less than or equal to the pivot come before it, and elements greater than the pivot follow it.


Note: The **low** and **high** are inclusive.

Output Window

Compilation Results

Custom Input

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

Problem Solved Successfully 

[Suggest Feedback](#)

Test Cases Passed

1120 / 1120

Attempts : Correct / Total

2 / 2