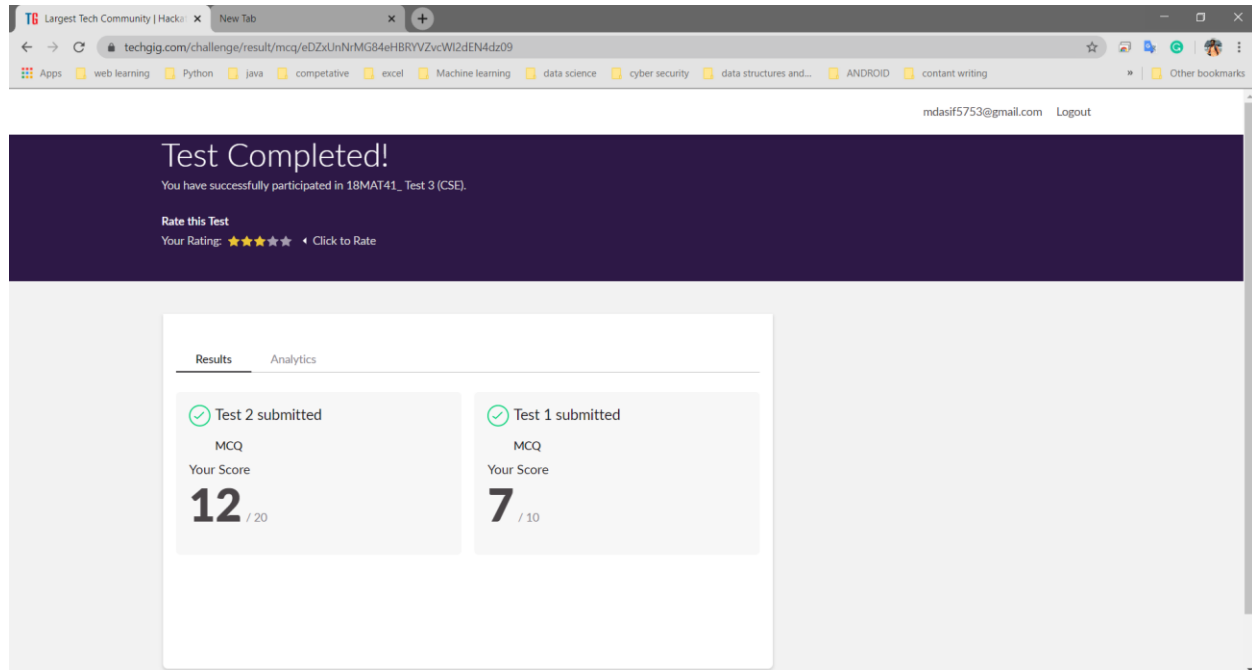


DAILY ONLINE ACTIVITIES SUMMARY

Date:	01/06/2020	Name:	M MAHAMMAD ASIF
Sem & Sec	4 th Sem & 'A' Sec	USN:	4AL18CS045
Online Test Summary			
Subject	Complex Analysis, Probability And Statistical Methods(18mat41)		
Max. Marks	30	Score	19
Certification Course Summary			
Course	The Complete Android App Development Masterclass:Build Apps		
Certificate Provider	Udemy	Duration	29 Hours
Coding Challenges			
<p>Problem Statement: 1. Given an array arr[] of size N and an integer K. The task is to find the count of sub arrays such that each sub array has exactly K distinct elements.</p> <p style="text-align: center;">2. Define a class Point with two fields x and y each of type double. Also , define a method distance(Point p1, Point p2) to calculate the distance between points p1 and p2 and return the value in double.. Use Math.sqrt () to calculate the square root.</p>			
Status: Completed			
Uploaded the report in Github		Yes	
If yes Repository name		https://github.com/mdasif9900/Lockdown-online-coding	
Uploaded the report in slack		Yes	

Online Test Details: The Mathematics 3st Internal Assessment was conducted on 5th Module. In that I had Scored 19 marks out of 30.

Snapshot:



Certification Course Details I have continued the the course that is “Complete Android App Development Master class: Build Apps”, which is about 29 hours of Duration. In that, I had completed Next part of yesterday’s topic, which was about more than an hour. Parallel to that whatever learn in course I’m practicing in Android Studio. It takes me up to 3-5 hours to practice and complete that day concept as I need to work on Android studio.

Snapshot:

The Complete Android App Development Masterclass: Build Apps

Course content

- 53. Send Messages - Capture Images - Permissions (26min)
- 54. Handle Permissions Correctly (25min)
- 55. Alarm Action - Calendar (26min)
- 56. Fragments (16min)
- 57. Callback Interfaces (20min)
- 58. Challenge - Gym Application (Part 1) (20min)
- 59. Challenge - Gym Application (Part 2) (23min)**
- 60. Challenge - Gym Application (Part 3) (26min)
- 61. Challenge - Gym Application (Part 4) (17min)

Section 6: Shortcuts and Debugging

About this course

Create Real World Applications using Java and Become A Professional Android App Developer From Scratch Today!

Coding Challenges Details: The Two JAVA problems I have solved By Understanding the Concepts through Online and updated the same in Github Repository. The three problem statements were

1. Given an array `arr[]` of size `N` and an integer `K`. The task is to find the count of sub arrays such that each sub array has exactly `K` distinct elements.

Screenshot:

alvas-education-foundation / M_MAHAMMAD_ASIF

generated from alvas-education-foundation/progress.template

Branch: master

M_MAHAMMAD_ASIF / coding_solutions / JAVA_PROGRAMS / Sub_hav_K_dist_ele.java

1 contributor

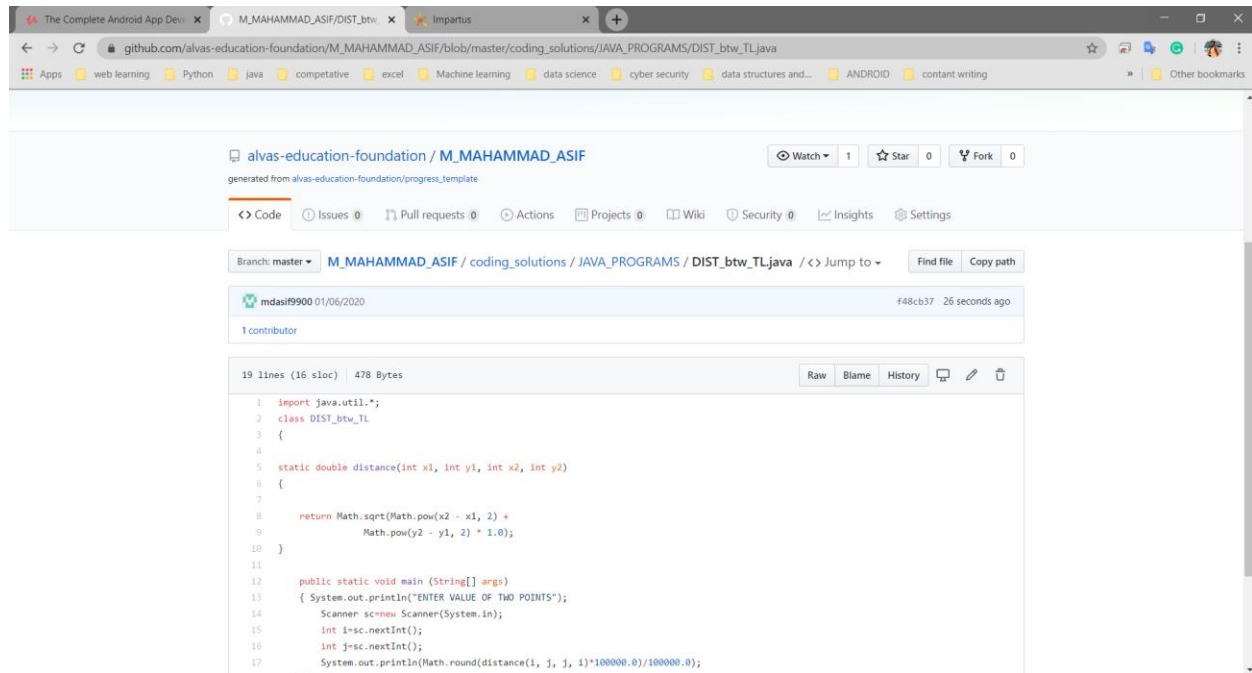
38 lines (33 sloc) 1.01 KB

```

1 import java.util.*;
2
3 public class Sub_hav_K_dist_ele {
4     private static int atMostK(int arr[], int n, int k)
5     {
6         int count = 0;
7         int left = 0;
8         int right = 0;
9         HashMap<Integer, Integer> map = new HashMap<>();
10        while (right < n) {
11            map.put(arr[right], map.getOrDefault(arr[right], 0) + 1);
12            while (map.size() > k) {
13                map.put(arr[left], map.get(arr[left]) - 1);
14                if (map.get(arr[left]) == 0)
15                    map.remove(arr[left]);
16                left++;
17            }
18            count++;
19            right++;
20        }
21        return count;
22    }
23    public static void main(String[] args) {
24        Scanner sc = new Scanner(System.in);
25        int n = sc.nextInt();
26        int k = sc.nextInt();
27        int arr[] = new int[n];
28        for (int i = 0; i < n; i++) {
29            arr[i] = sc.nextInt();
30        }
31        int ans = atMostK(arr, n, k);
32        System.out.println(ans);
33    }
34 }

```

2. Define a class Point with two fields x and y each of type double. Also , define a method distance(Point p1, Point p2) to calculate the distance between points p1 and p2 and return the value in double.. Use Math.sqrt() to calculate the square root.



The screenshot shows a web browser displaying a GitHub repository page for 'alvas-education-foundation / M_MAHAMMAD_ASIF'. The repository is generated from 'alvas-education-foundation/progress_template'. The file 'DIST_bt看_TL.java' is selected, showing its code. The code is a Java program that calculates the distance between two points (x1, y1) and (x2, y2) using the Euclidean distance formula. It uses `Math.sqrt()` to calculate the square root. The program includes a `main` method that prompts the user to enter two points and prints the calculated distance.

```
1 import java.util.*;
2 class DIST_bt看_TL
3 {
4
5     static double distance(int x1, int y1, int x2, int y2)
6     {
7
8         return Math.sqrt(Math.pow(x2 - x1, 2) +
9             Math.pow(y2 - y1, 2) * 1.0);
10    }
11
12    public static void main (String[] args)
13    { System.out.println("ENTER VALUE OF TWO POINTS");
14      Scanner sc=new Scanner(System.in);
15      int i=sc.nextInt();
16      int j=sc.nextInt();
17      System.out.println(Math.round(distance(i, j, j, i)*100000.0)/100000.0);
18    }
```