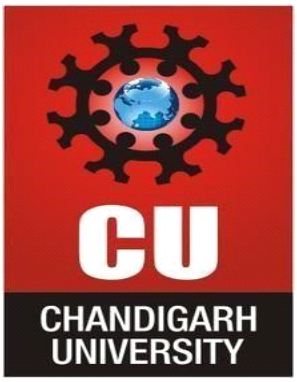
CHANDIGARH UNIVERSITY

UNIVERSITY INSTITUTE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Submitted By: Rajiv Paul	**Submitted To:** Urvashi Malhotra
Subject Name	Competitive Coding-I
Subject Code	20CSP-314
Branch	BE-CSE
Semester	5th

LAB INDEX

Sr. No	Program	Date	Evaluation				Sign
			LW (12)	VV (8)	FW (10	Total (30	
1.							
2.							
3.							
4.							
5.							
6.							
7.	To solve the hacker rank problems	27/10/22					
8.							
9.							
10.							

EXPERIMENT – 2.3

Student Name:Rajiv Paul **UID:20BCS1812**
Branch: CSE **Section/Group: 20BCS_WM_702(A)**
Semester: 5th **Date of Performance:27/10/2022**
Subject Name: Competitive Coding **Subject Code: 20CSP-314**

AIM OF THE EXPERIMENT:

To solve the following hacker rank problems.

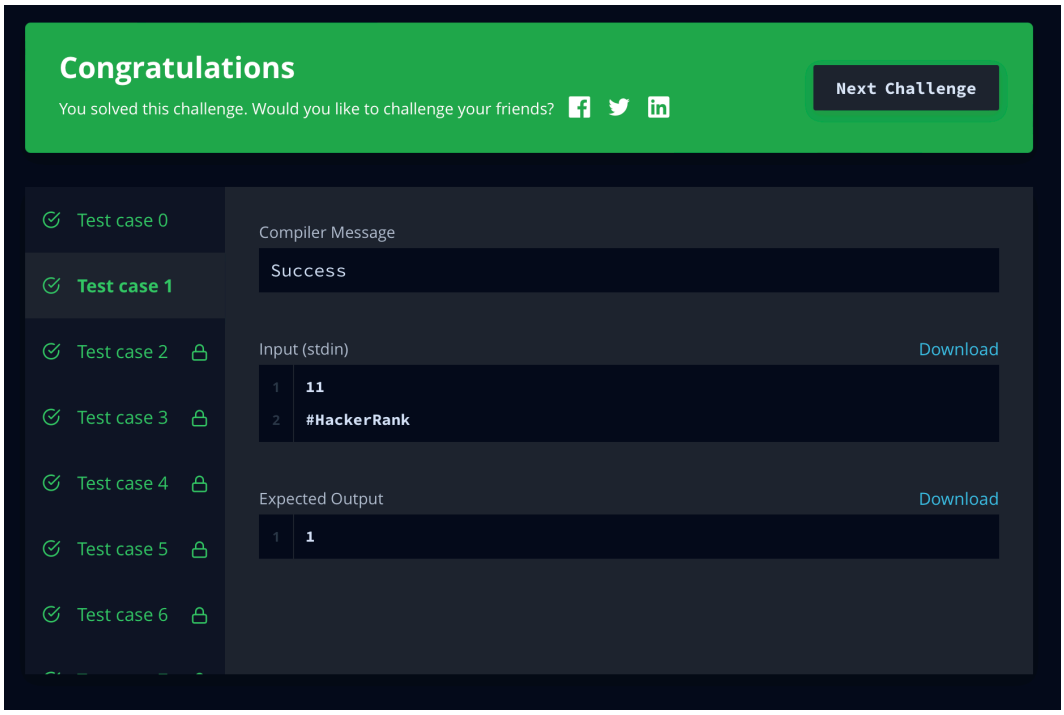
Problem 1: https://www.hackerrank.com/challenges/strong-password/problem?isFullScreen=true

1. PROGRAM CODE:

```
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;


public class Solution {


    static int minimumNumber(int n, String password) {
        boolean lowercase = false;
        boolean uppercase = false;
        boolean number = false;
        boolean special = false;
        char[] schars = "!@#$%^&*()-+".toCharArray();
```

```
        Set<Character> cs = new HashSet<>();
        for (char c : schars) {
            cs.add(c);
        }
        for (int i = 0; i < n; i++) {
            char c = password.charAt(i);
            if (c >= '0' && c <= '9') number = true;
            if (c >= 'a' && c <= 'z') lowercase = true;
            if (c >= 'A' && c <= 'Z') uppercase = true;
            if (cs.contains(c)) special = true;
        }
        int need = 0;
        need += lowercase ? 0 : 1;
        need += uppercase ? 0 : 1;
        need += number ? 0 : 1;
        need += special ? 0 : 1;
        return n + need < 6 ? 6 - n : need;
    }

    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        int n = in.nextInt();
        String password = in.next();
        int answer = minimumNumber(n, password);
        System.out.println(answer);
        in.close();
    }
}
```

2. OUTPUT:

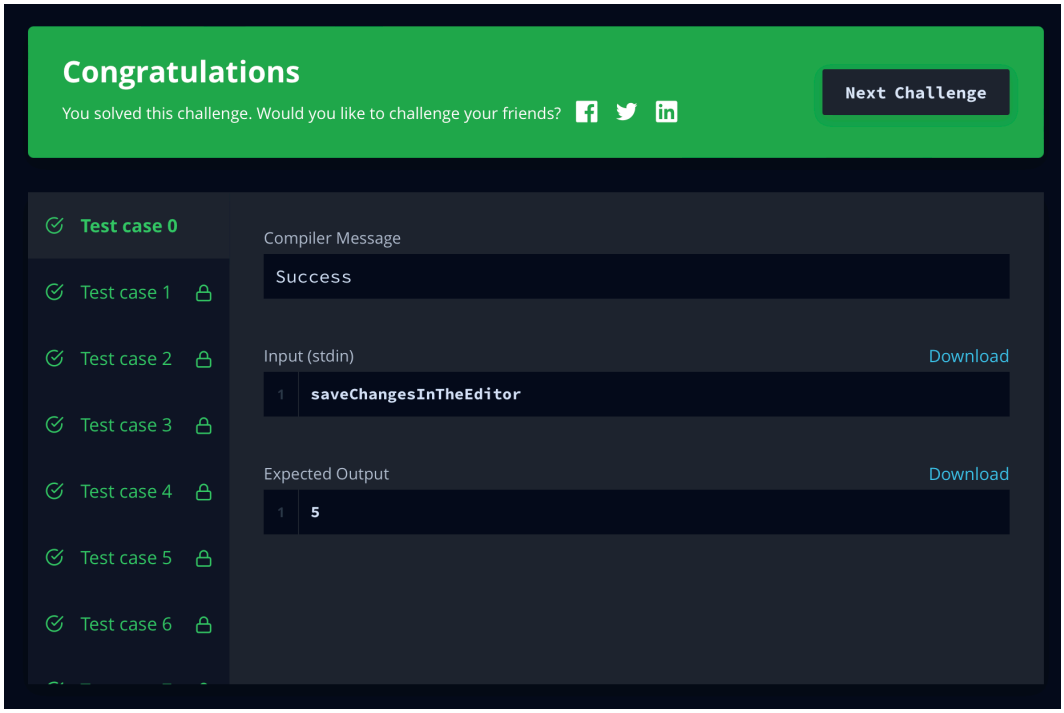

Congratulations
You solved this challenge. Would you like to challenge your friends?
Next Challenge
Test case 0
Test case 1
Test case 2
Test case 3
Test case 4
Test case 5
Test case 6
Compiler Message
Success
Input (stdin)
Download
11
#HackerRank
Expected Output
Download
1

Problem 2: https://www.hackerrank.com/challenges/camelcase/problem?isFullScreen=true

1. **PROGRAM CODE:**

```
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

public class Solution {

    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        String s = in.next();
        String p = s.toUpperCase();
        int l = s.length();
        int ans = 1;
        for (int i = 0; i < l; i++) {
            if (p.charAt(i) == s.charAt(i)) ans++;
        }

        System.out.println(ans);
    }
}
```

2. OUTPUT:


Congratulations
You solved this challenge. Would you like to challenge your friends?
Next Challenge
Test case 0
Test case 1
Test case 2
Test case 3
Test case 4
Test case 5
Test case 6
Compiler Message
Success
Input (stdin)
Download
1 saveChangesInTheEditor
Expected Output
Download
1 5