Winter Winning Camp Worksheet

DAY 2

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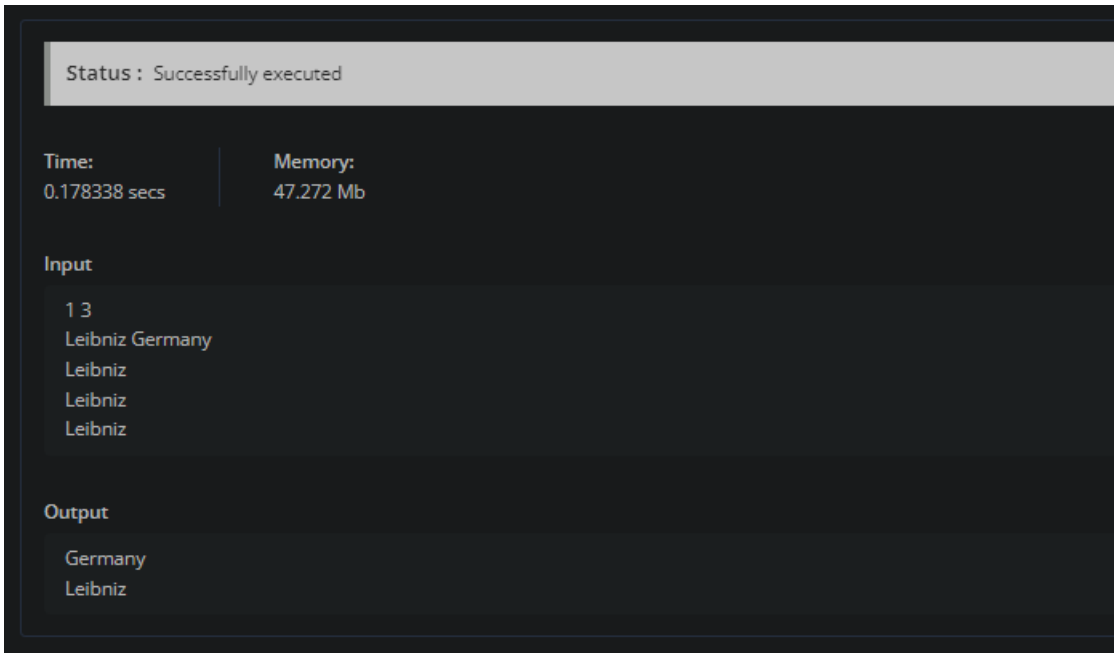
Branch: CSE **Section/Group:** DWWC-43
Subject: IT SKILLS **Date:**04-01-2023

Problem 1: CHEF OF THE YEAR.

Code:

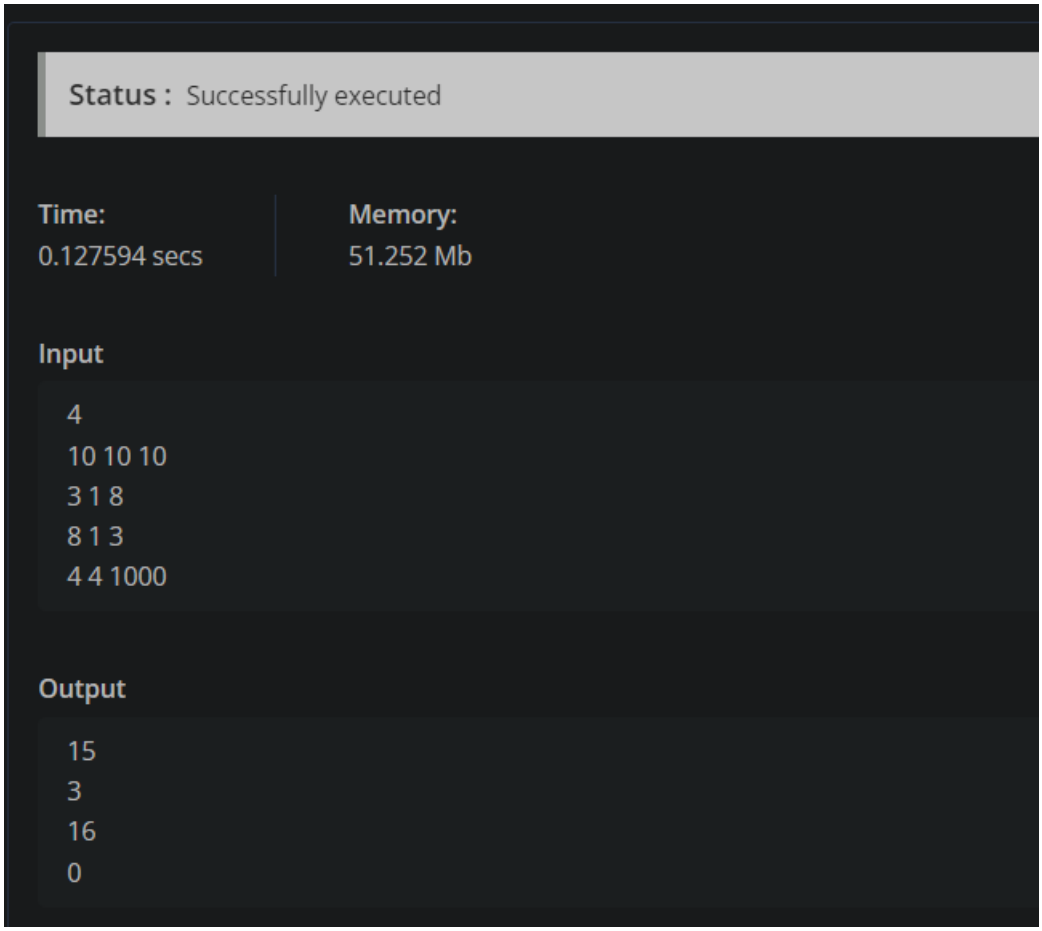
```java
import java.util.*;
import java.lang.*;
import java.io.*;

/* Name of the class has to be "Main" only if the class is public. */
class Codechef
{
    public static void main (String[] args) throws java.lang.Exception
    {
        // your code goes here
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int m = sc.nextInt();
        Map<String,String> map = new HashMap<>();
        while(n-->0){
            String chef =sc.next();
            String cont = sc.next();
            map.put(chef,cont);
        }
        Map<String,Integer> country = new HashMap<>();
        Map<String,Integer> chefs = new HashMap<>();
        int maxCountry = 0;
        int maxChefs = 0;
        while(m-->0){
            String str = sc.next();
            String get= map.get(str);
            country.put(get,country.getOrDefault(get,0)+1);
            maxCountry= Math.max(maxCountry,country.get(get));
            chefs.put(str,chefs.getOrDefault(str,0)+1);
            maxChefs = Math.max(maxChefs,chefs.get(str));
        }
        List<String> c = new LinkedList<>();
        for(String s:country.keySet()){
            if(country.get(s) == maxCountry){
                c.add(s);
            }
        }
        Collections.sort(c);
        System.out.println(c.get(0));
        List<String> ch = new LinkedList<>();
        for(String s:chefs.keySet()){
            if(chefs.get(s) == maxChefs){
                ch.add(s);
            }
        }
        Collections.sort(ch);
        System.out.println(ch.get(0));

    }
}
```



Problem 2: CHEF AND CHOCOLATES

Code:

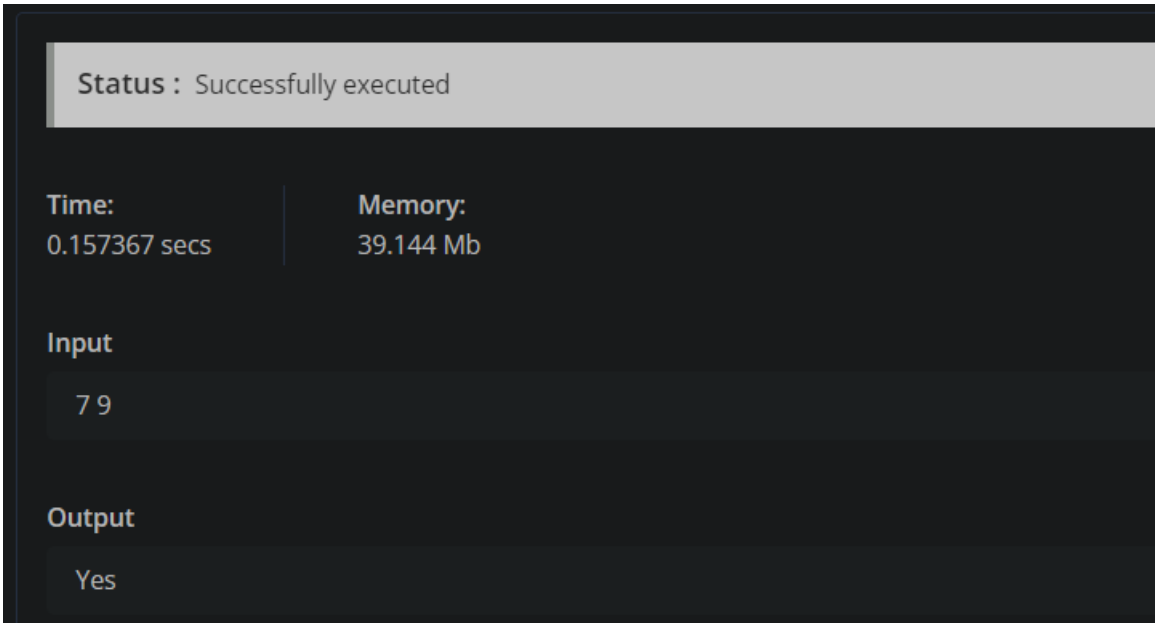
```java
/* package codechef; // don't place package name! */

import java.util.*;
import java.lang.*;
import java.io.*;

/* Name of the class has to be "Main" only if the class is public. */
class Codechef
{
    public static void main (String[] args) throws java.lang.Exception
    {
        // your code goes here
            Scanner sc = new Scanner (System.in);
        int t = sc.nextInt();
        while(t-->0)
        {
            int a = sc.nextInt();
            int b = sc.nextInt();
            int c = sc.nextInt();

            int totalrupees = ((5*a)+(10*b));
            if(totalrupees>c)
            {
                System.out.println(totalrupees/c);
            }
            else
            {
                System.out.println("0");
            }



        }


    }
}

```



Problem 3: CHEF AND BRAIN SPEED

Code:

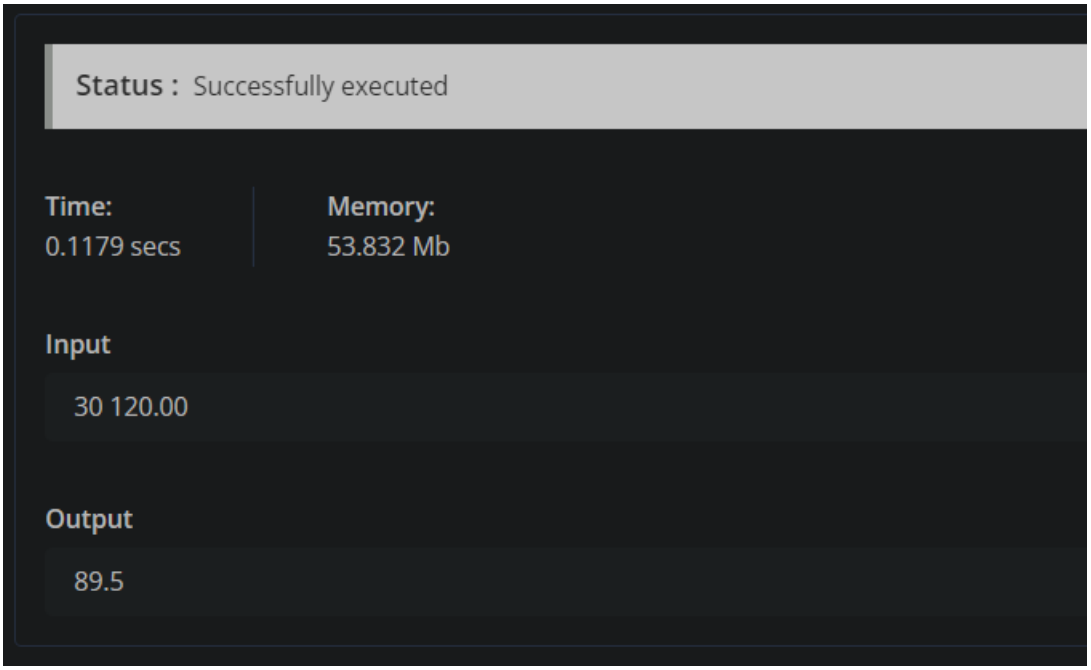
```java
/* package codechef; // don't place package name! */

import java.util.*;
import java.lang.*;
import java.io.*;

/* Name of the class has to be "Main" only if the class is public. */
class Codechef
{
    public static void main (String[] args) throws java.lang.Exception
    {
        // your code goes here
        Scanner sc = new Scanner(System.in);
        int a = sc.nextInt();
        int b = sc.nextInt();
        if(a<b){
            System.out.println("Yes");
        }
        else{
            System.out.println("No");
        }

    }
}
```



Problem 4: ATM

Code:

```java

import java.util.*;
import java.io.*;

class Solution{
    public static void main(String[] args) throws Exception{
        InputStreamReader i = new InputStreamReader(System.in);
        BufferedReader bf = new BufferedReader(i);
        String[] in = bf.readLine().split(" ");
        float n = Float.parseFloat(in[0]);
        float f = Float.parseFloat(in[1]);

        if(n%5==0 && f>=n+0.5f)
        System.out.println(f-n-0.5f);

        else{
            System.out.println(f);
        }

    }
}


```



Problem 5: EQUAL INTEGERS

Code:

```java
/* package codechef; // don't place package name! */

import java.util.*;
import java.lang.*;
import java.io.*;

/* Name of the class has to be "Main" only if the class is public. */
class Codechef
{
        public static void main (String[] args) throws java.lang.Exception
        {
        Scanner sc=new Scanner(System.in);
        int t=sc.nextInt();
        while(t-->0){
            int x=sc.nextInt();
            int y=sc.nextInt();
            if(x==y) System.out.println(0);
            else if(x<y) System.out.println(y-x);
            else if(x%2==0 && y%2==0 || x%2!=0 && y%2!=0) System.out.println((int)Math.abs(x-y)/2);
            else System.out.println(((int)Math.abs(x+1-y)/2)+1);
        }
        sc.close();
        }
}

```

Status : Successfully executed

Time:	Memory:
0.154656 secs	50.84 Mb

Input

```
5
3 4
5 5
7 3
5 2
7 12
```

Output

```
1
0
2
3
5
```