Winter Winning Camp Worksheet

DAY 1

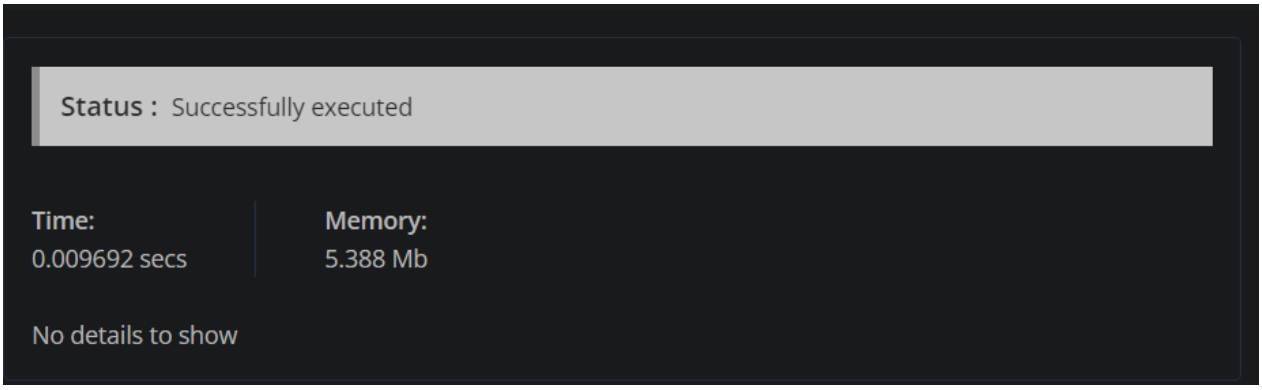
Student Name: Jatin Tak **UID:** 20BCS9837
Branch: CSE **Section/Group:** DWWC-43
Subject: IT SKILLS **Date:**03-01-2023

Problem 1: BINOD AND CHOCOLATES.

Code:

```java
import java.util.Scanner;

/* 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();
        for (int i = 0; i < T ; i++){
            int a = sc.nextInt();
            int b = sc.nextInt();
            int c = a + b;
            if(a%3==0 || b%3==0 || c%3==0)
            {
                System.out.println("YES");
            }
            else
            {
                System.out.println("NO");
            }
        }
    }
}
```



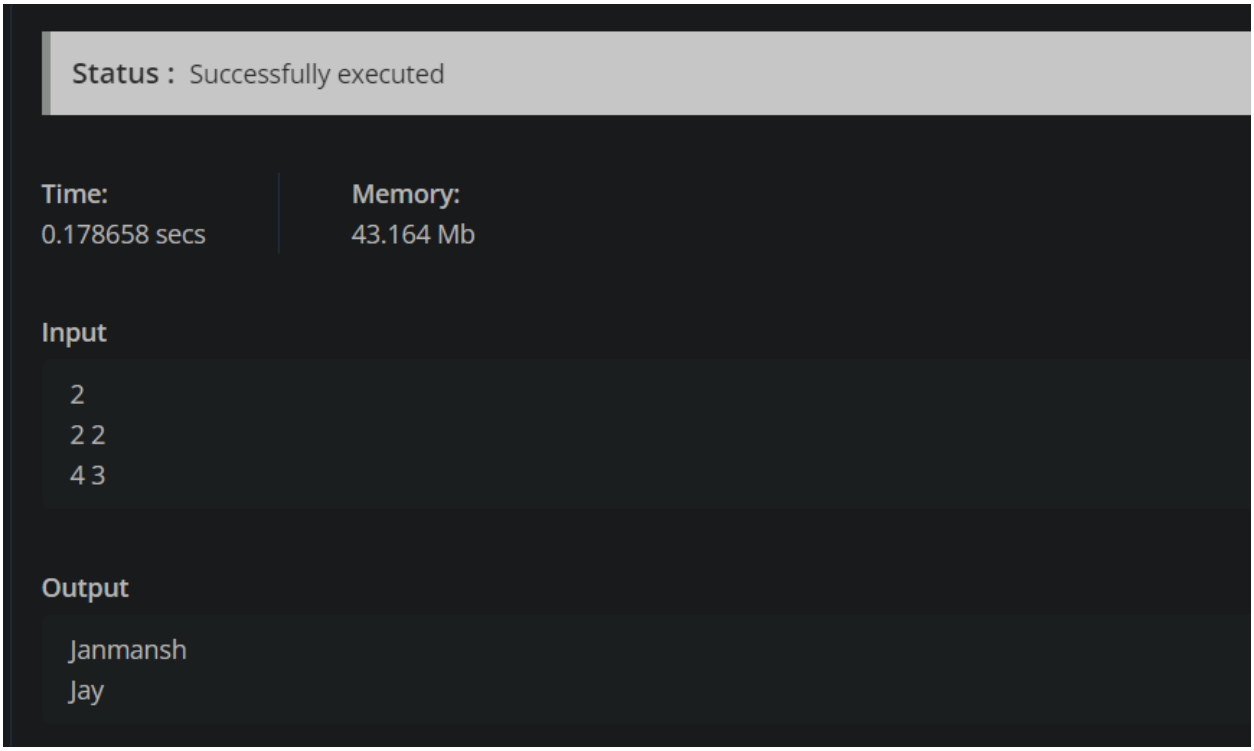
Problem 2: JANMANSH AND GAMES

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 numberOfTestCases = sc.nextInt();
        for(int i=0;i<numberOfTestCases;i++)
        {
            int X = sc.nextInt();
            int Y = sc.nextInt();
            System.out.println(((X+Y)%2==0)?"Janmansh":"Jay");
        }
    }
}
```



Problem 3: GOLD MINING

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 scan = new Scanner(System.in);
        int i = scan.nextInt();
        for(int a = 0; a < i; a++){
            int n = scan.nextInt()+1;
            int x = scan.nextInt();
            int y = scan.nextInt()*n;
            System.out.println(y>=x?"YES":"NO");
        }
    }
}
```

Status : Successfully executed

Time:	Memory:
0.169223 secs	45.152 Mb

Input

```
3
2 10 3
2 10 4
1 5 10
```

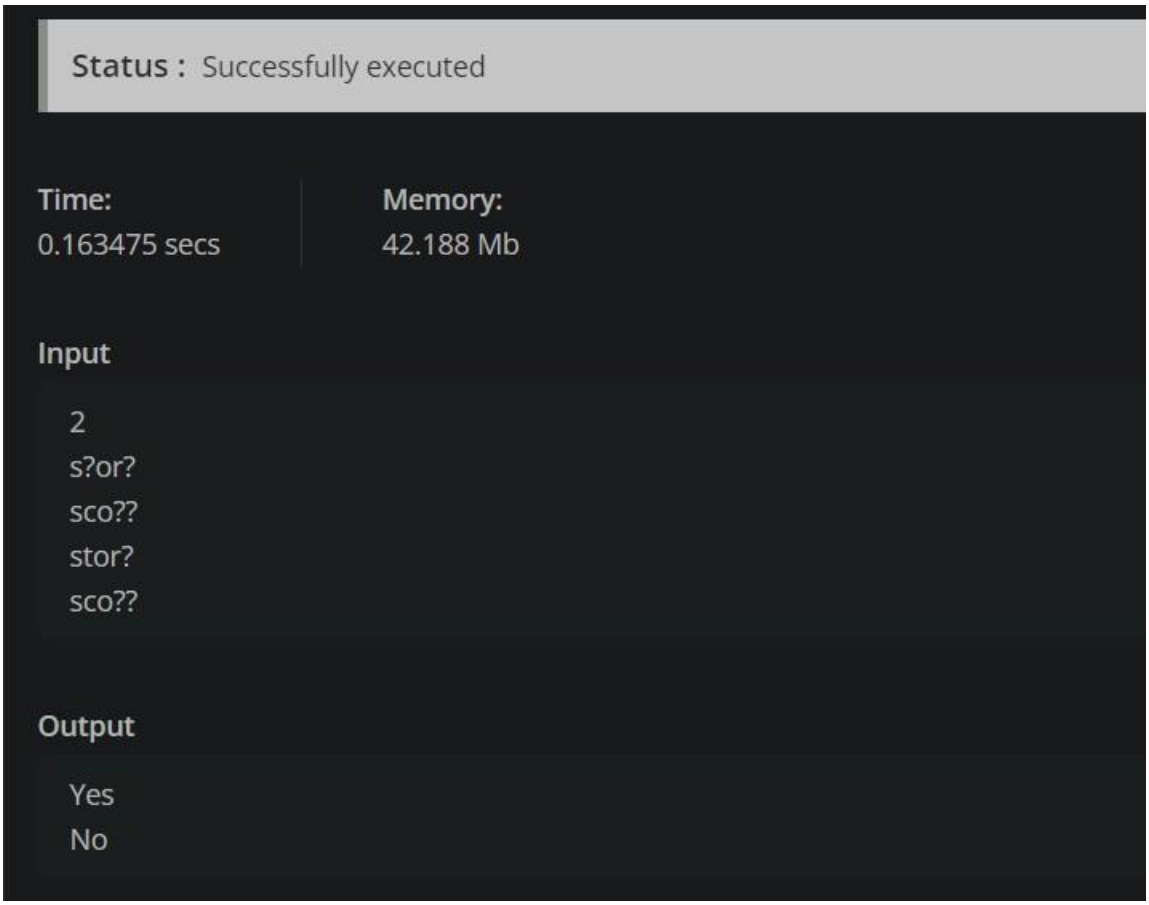
Output

```
NO
YES
YES
```

Problem 4: CHEF AND THE WILDCARD MATCHING

Code:

```java
import java.util.*;
 class TWOSTR {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        int T = sc.nextInt();
        while (T-- > 0) {
            int n = 0;
            String X = sc.next();
            String Y = sc.next();
            int L = Y.length();
            for (int i = 0; i < L; i++) {
                if (X.charAt(i) == Y.charAt(i) || X.charAt(i) == '?' || Y.charAt(i) == '?') {
                    n += 1;
                }
            }
            if (n == L)
                System.out.println("Yes");
            else
                System.out.println("No");
        }
    }
}
```



Problem 5: SUMS IN A TRIANGLE

Code:

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

class Codechef
{
    public static void main (String[] args) throws java.lang.Exception
    {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        for(int i=0;i<n;i++)
        {
            int rows = sc.nextInt();
            int sum=0;
            int triangle[][] = new int[rows][rows];
            for(int j=0;j<rows;j++)
                for(int k=0;k<=j;k++)
                    triangle[j][k]=sc.nextInt();
            for(int j=rows-2;j>=0;j--)
            {
                for(int k=0;k<=j;k++)
                {
                    triangle[j][k]+= Math.max(triangle[j+1][k],triangle[j+1][k+1]);
                }
            }
            System.out.println(triangle[0][0]);
        }
    }
}
```

Status : Successfully executed

Time:	Memory:
0.129019 secs	45.116 Mb

Input

```
2
3
1
2 1
1 2 3
4
1
1 2
4 1 2
```

Output

```
5
9
```