WEEK 2

```
import java.util.*;
interface PerformOperation {
 boolean check(int a);
}
class MyMath {
 public static boolean checker(PerformOperation p, int num) {
  return p.check(num);
 }

   // Logic to check ODD or EVEN
   public static PerformOperation isOdd() {
      return a -> a % 2 != 0;
   }

   public static PerformOperation isPrime() {
      return a -> {
         if (a <= 1) return false;
         for (int i = 2; i <= Math.sqrt(a); i++) {
            if (a % i == 0)
               return false;
         }
         return true;
      };
   }

   public static PerformOperation isPalindrome() {
      return a -> {
         int original = a, reverse = 0;
         while (a > 0) {
            reverse = reverse * 10 + a % 10;
```

```
            a /= 10;
        }
        return original == reverse;
    };
  }
}
```

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0

Input (stdin)

```
5
1 4
2 5
3 898
1 3
2 12
```

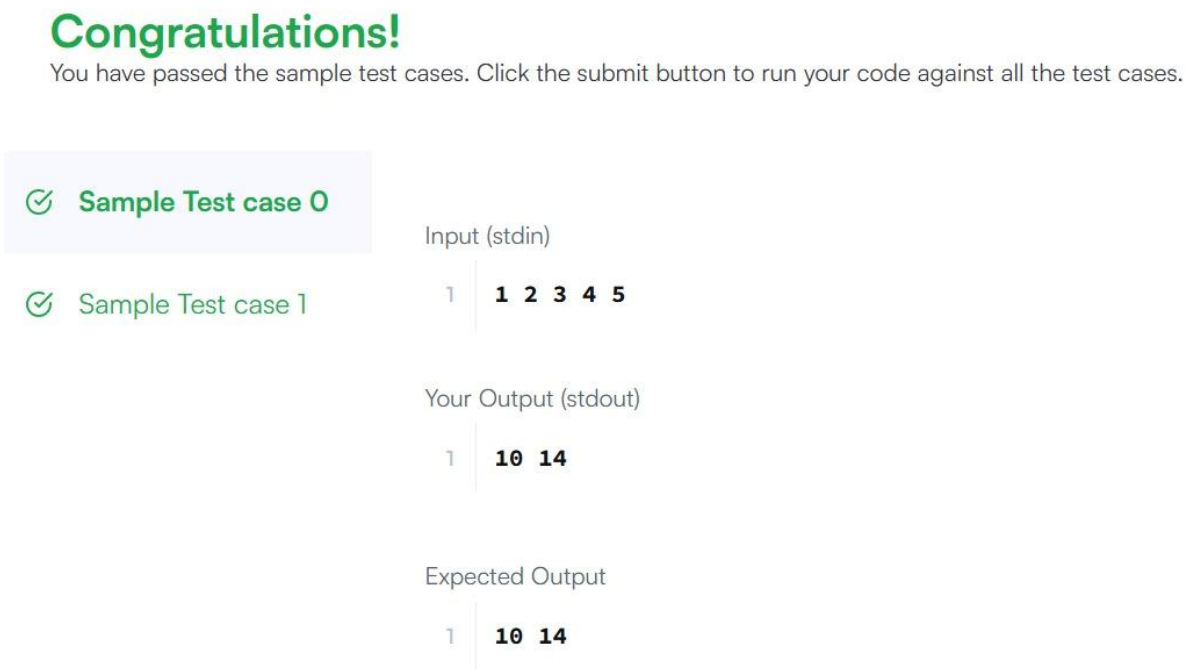
Your Output (stdout)

```
EVEN
PRIME
PALINDROME
ODD
```

TASK2.2:

```
import java.util.*;
public class Solution {
    public static void miniMaxSum(int[] arr) {
        long totalSum = 0;
        for (int i = 0; i < arr.length; i++) {
            totalSum += arr[i];
        }
        long minSum = totalSum - arr[0];
        long maxSum = totalSum - arr[0];
        for (int i = 1; i < arr.length; i++) {
            long sumExcluding = totalSum - arr[i];
```

```
            if (sumExcluding < minSum) {
                minSum = sumExcluding;
            }
            if (sumExcluding > maxSum) {
                maxSum = sumExcluding;
            }
        }
        System.out.println(minSum + " " + maxSum);
    }
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int[] arr = new int[5];
        for (int i = 0; i < 5; i++) {
            arr[i] = sc.nextInt();
        }
        miniMaxSum(arr);
    }
}
```




```
public int isPalindrome(String input1)
{
   String str = input1.toLowerCase();
   int left = 0;
   int right = str.length() - 1;
   while (left < right {
    if (str.charAt(left) != str.charAt(right))
      {
         return 1; // Not a palindrome
      }
      left++;
      right--;
   }return 2; // Palindrome
}
```

Expected Output

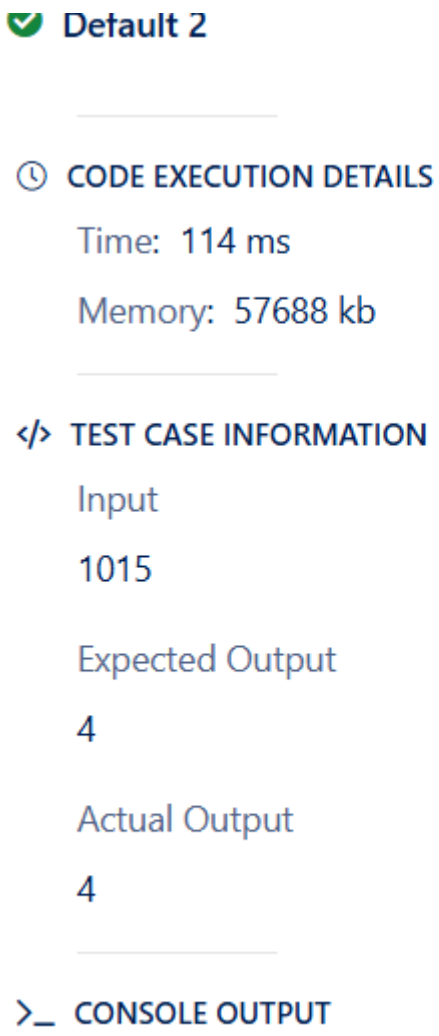
2

Actual Output

2

TASK2.3:

```
public int allDigitsCount(int input1)
{
   int count = 0;

   while (input1 ){
    count++;
       input1 = input
 return count;}
```



TASK2.4:

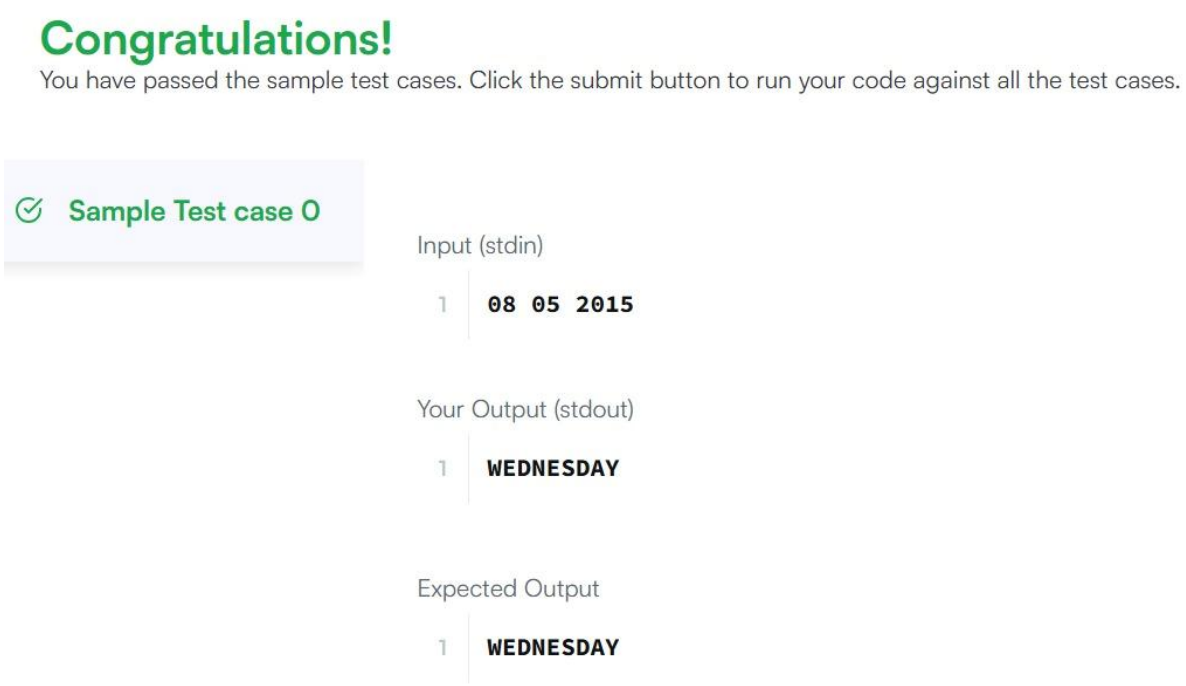
```
public int totalHillWeight(int input1, int input2, int input3) {
    int totalWeight = 0;
 for (int level = 1; level <= input1; level++) {
        int stars = level;
        int weightPerStar = input2 + (level - 1) * input3;
        totalWeight += stars * weightPerStar;
    }

    return totalWeight;
}
```

TASK2.5:

```
import java.io.*;
import java.math.*;
import java.security.*;
import java.text.*;
import java.util.*;
import java.util.concurrent.*;
import java.util.function.*;
import java.util.regex.*;
import java.util.stream.*;
import static java.util.stream.Collectors.joining;
import static java.util.stream.Collectors.toList;

class Result {

    public static String findDay(int month, int day, int year) {

        Calendar cal = Calendar.getInstance();
```

```
    cal.set(year, month - 1, day);

    int dayOfWeek = cal.get(Calendar.DAY_OF_WEEK);

    String[] days = {
        "SUNDAY", "MONDAY", "TUESDAY",
        "WEDNESDAY", "THURSDAY", "FRIDAY", "SATURDAY"
    };

    return days[dayOfWeek - 1];
}

public static void main(String[] args) throws Exception {

    Scanner sc = new Scanner(System.in);

    int month = sc.nextInt();
    int day = sc.nextInt();
    int year = sc.nextInt();

    String result = findDay(month, day, year);

    System.out.println(result);

    sc.close();
}
```

```
}
```



TASK2.6:

```
public int sumOfSumsOfDigits(int input1) {
int total = 0;
   int run = 0;

   char[] arr = String.valueOf(input1).toCharArray();

   for (int i = 0; i < arr.length; i++) {
      run = run + (arr[i] - '0');
      total = total + run;
   }

   return total;
}
```

</> TEST CASE INFORMATION

Input

5,10,2

Expected Output

230

Actual Output

230