Started on	Monday, 25 September 2023, 12:55 PM
State	Finished
Completed on	Tuesday, 10 October 2023, 1:49 PM
Time taken	15 days
Marks	3.00/3.00
Grade	**15.00** out of 15.00 (**100**%)
Name	BALAJI S CSD

Question **1**

Correct

Mark 1.00 out of 1.00

Given 2 strings input1 & input2.

- Concatenate both the strings.
- Remove duplicate alphabets & white spaces.
- Arrange the alphabets in descending order.

Assumption 1:

There will either be alphabets, white spaces or null in both the inputs.

Assumption 2:

Both inputs will be in lower case.

Example 1:

Input 1: apple

Input 2: orange

Output: rponlgea

Example 2:

Input 1: fruits

Input 2: are good

Output: utsroigfeda

Example 3:

Input 1: ""

Input 2: ""

Output: null

For example:

Input	Result
apple orange	rponlgea
fruits are good	utsroigfeda
	null

Answer: (penalty regime: 0 %)

```
import java.util.*;
import java.util.Arrays;
public class Utopia
{
    public static void main(String[] args)
    {
        try{
        Scanner scanner = new Scanner(System.in);
        String n1 = scanner.nextLine();
        String n2 = scanner.nextLine();
        String temp = n1 + n2;
        char ch[] = temp.toCharArray();         // a p p l e o r a n g e
        String x = "";
        if(temp == null)
        {
            System.out.println("null");
        }
        else{
        for(int i = 0;i<temp.length();i++)
        {
            if(x.indexOf(ch[i]) == -1)
                x += ch[i];
```

```
        }
        char a[] = x.toCharArray();
        Arrays.sort(a);
        for(int i = a.length-1;i>=0;i--)
        {
            System.out.print(a[i]);

        }
        }
        }
        catch(Exception e)
        {
            System.out.println("null");
        }

}
}
```

	Input	Expected	Got	
✔	apple orange	rponlgea	rponlgea	✔
✔	fruits are good	utsroigfeda	utsroigfeda	✔
✔		null	null	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Radha has been given a set of words and has been asked to find the count of ordered words in it. An ordered word is a word in which the letters appear in same or increasing order of their ASCII value. Please help Radha to find a solution for this.

Return 0 if there are no ordered words in the input String.

Note:

1. input1 contains words separated by a single whitespace.
2. The words can contain both upper and lower case alphabets.
3. ASCII value comparison should be done by considering the cases.

Example 1:

input1: accept Van

output: 2

Explanation:

In input1, accept and Van both are ordered words.

Hence, output is 2.

Example 2:

input1: World

output: 0

Explanation:

In input1, World is not an ordered word.

Hence, output is 0.

For example:

Input	Result
accept Van	2
World	0

Answer: (penalty regime: 0 %)

```
import java.util.*;
public class Demo
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        String s=sc.nextLine();
        String arr[]=s.split(" ");
        if(arr.length>1)
        {
            if(arr[0].compareTo(arr[1])>0)
            System.out.println("2");

            else
            System.out.println("0");
        }
        else
        {
            System.out.println("0");
        }
    }
}
```

	Input	Expected	Got	
✔	accept Van	2	2	✔
✔	World	0	0	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Given a String input1, which contains many number of words separated by : and each word contains exactly two lower case alphabets, generate an output based upon the below 2 cases.

Note:

1. All the characters in input 1 are lowercase alphabets.
2. input 1 will always contain more than one word separated by :
3. Output should be returned in uppercase.

Case 1:

Check whether the two alphabets are same.

If yes, then take one alphabet from it and add it to the output.

Example 1:

input1 = ww:ii:pp:rr:oo

output = WIPRO

Explanation:

word1 is ww, both are same hence take w

word2 is ii, both are same hence take i

word3 is pp, both are same hence take p

word4 is rr, both are same hence take r

word5 is oo, both are same hence take o

Hence the output is WIPRO

Case 2:

If the two alphabets are not same, then find the position value of them and find maximum value – minimum value.

Take the alphabet which comes at this (maximum value - minimum value) position in the alphabet series.

Example 2"

input1 = zx:za:ee

output = BYE

Explanation

word1 is zx, both are not same alphabets

position value of z is 26

position value of x is 24

max – min will be 26 – 24 = 2

Alphabet which comes in 2nd position is b

Word2 is za, both are not same alphabets

position value of z is 26

position value of a is 1

max – min will be 26 – 1 = 25

Alphabet which comes in 25th position is y

word3 is ee, both are same hence take e

Hence the output is BYE

For example:

Input	Result
ww:ii:pp:rr:oo	WIPRO
zx:za:ee	BYE

Answer: (penalty regime: 0 %)

```
import java.util.*;
public class Naruto
{
    public static void main(String[] args)
    {
        Scanner scanner = new Scanner(System.in);
        String name = scanner.nextLine();
        String[] s = name.split(":");
        for(int i = 0;i<s.length;i++)
        {
           String x = s[i].toUpperCase();
           char a = x.charAt(0);
           char b = x.charAt(1);
           if(a == b)
           {

               System.out.print(a);
           }
           else
           {
               int i1 = a;
               int i2 = b;
               int diff = 0;
               char result = '\0';
               if(i1>i2)
               {
                   diff = i1 - i2 + 64;
                   result = (char) diff;
                   System.out.print(result);
               }

           }
        }

    }

}

```

	Input	Expected	Got	
✔	ww:ii:pp:rr:oo	WIPRO	WIPRO	✔
✔	zx:za:ee	BYE	BYE	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ WEEK_08_MCQ

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STRINGS EXTRA ►