Question **1**

Correct

Marked out of 10.00

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 %)

```python
1  r=input().split(':')
2  l=[]
3  for i in r:
4      if(i[0]==i[1]):
5          l.append(i[0].upper())
6      elif(i[0]!=i[1]):
7          r1=((ord(i[0]))-96)-((ord(i[1]))-96)
8          l.append(chr(r1+96).upper())
9  print("".join(x for x in l))
10
11
```

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

Passed all tests! ✔