06 - Strings in Python

Ex. No. : 6.1 Date:

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Count Chars

Write a python program to count all letters, digits, and special symbols respectively from a given string

For example:

Input Result rec@123 3 3

Program:

	Input	Expected	Got	
~	rec@123	3	3	~
		3	3	
		1	1	
~	P@#yn26at^&i5ve	8	8	~
		3	3	
		4	4	
~	abc@12&	3	3	~
		2	2	
		2	2	

Passed all tests! 🗸

Ex. No. : 6.2 Date:

Register No.: Name:

Decompress the String

Assume that the given string has enough memory. Don't use any extra space(IN-PLACE)

Sample Input 1 a2b4c6 Sample Output 1 aabbbbcccccc

Program:

import re a=input()
all=re.findall('\d+',a)
all_w=re.findall('[a-z]',a)
b=" for i,j in zip(all,all_w):

b+=int(i)*j print(b)

	Input	Expected	Got					
~	a2b4c6	aabbbbcccccc	aabbbbccccc	~				
~	a12b3d4	aaaaaaaaaabbbdddd	aaaaaaaaaabbbdddd	~				
Passe	Passed all tests!							

Ex. No.	:	6.3	Date:
Register No	.:		Name:
		I	First N Common Chars
			are passed as the input. The program must print first N which are also present in S2.
Input Forma	at:		
The first line The second The third lir	line co	ntains 9	52.
Output Forr	nat:		
The first line	e conta	ins the	N characters present in S1 which are also present in S2.
Boundary C	onditio	ons:	
2 <= N <= 10 2 <= Length Example Inp	of S1,		000
Input:			
abcbde cdefghbb 3			
Output:			
bcd			
Note:			
b occurs tw	ice in c	ommor	but must be printed only once.

Program:

a=input() b=input()
C=" d=int(input()) for
i in range(len(a)):

```
if(len(C)-d==0):
    break
else:
    if(a[i]in b):
        if(a[i] not in C):
        C+=a[i]
print (C)
```



Ex. No. : 6.4 Date:

Register No.: Name:

Remove Characters

Given two Strings s1 and s2, remove all the characters from s1 which is present in s2.

Constraints

```
1<= string length <= 200
Sample Input 1
experience
enc
```

Sample Output 1 xpri

Program:

```
def remove_chars(s1, s2):
    return ".join([char for char in s1 if char not in s2])
s1=input() s2=input() result =
remove_chars(s1, s2)
print(result)
```



Ex. No. : 6.5 Date:

Register No.: Name:

Remove Palindrome Words

String should contain only the words are not palindrome.

Sample Input 1 Malayalam is my mother tongue Sample Output 1 is my mother tongue

For example:

Input	Expected
Malayalam is my mother tongue	is my mother tongue
He did a good deed	he good

Program:

```
a=[]
a=input()
b=a. split()
for i in b:
    k=i.lower()
    if k!=k[::-1]:
        print(k,end=' ')
```

Output:

	Input	Expected	Got	
/	Malayalam is my mother tongue	is my mother tongue	is my mother tongue	~

Ex. No. : 6.6 Date:

Register No.: 230701303 Name: SHAKTHI.G

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Return Second World in Uppercase

Write a program that takes as input a string (sentence), and returns its second word in uppercase.

For example:

If input is "Wipro Technologies Bangalore" the function should return "TECHNOLOGIES"

If input is "Hello World" the function should return "WORLD"

If input is "Hello" the program should return "LESS"

NOTE 1: If input is a sentence with less than 2 words, the program should return the word "LESS".

NOTE 2: The result should have no leading or trailing spaces.

For example:

Input Result
Wipro Technologies Bangalore
TECHNOLOGIES
Hello World
WORLD
Hello
LESS

Program:

f=input()
s=f.split()
if len(s)>1:
c=s[1]
print(c.upper())
else:
 print("LESS")

	Input	Expected	Got	
~	Wipro Technologies Bangalore	TECHNOLOGIES	TECHNOLOGIES	~
~	Hello World	WORLD	WORLD	~
~	Hello	LESS	LESS	~

Passed all tests! 🗸

Ex. No. : 6.7 Date:

Register No.: Name:

Revers String

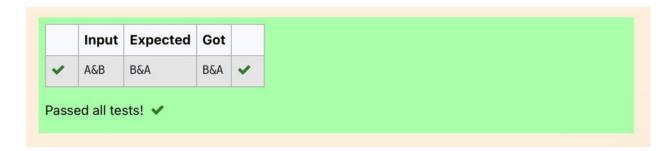
Reverse a string without affecting special characters. Given a string S, containing special characters and all the alphabets, reverse the string without affecting the positions of the special characters.

Input:
A&B
Output:
B&A
Explanation: As we ignore '&' and
As we ignore '&' and then reverse, so answer is "B&A".

For example:

Input Result A&x# x&A#

Program:



Ex. No.	:	6.8	Date:	
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String characters balance Test

Write a program to check if two strings are balanced. For example, strings s1 and s2 are balanced if all the characters in the s1 are present in s2. The character's position doesn't matter. If balanced display as "true" ,otherwise "false".

For example:

Input Result Yn PYnative True

Program:

a=input()
b=input()
if a in b:

print("True")
else:
 print("False")

	Input	Expected	Got	
/	Yn PYnative	True	True	~
/	Ynf PYnative	False	False	~

Ex. No. : 6.9 Date:

Register No.: Name:

Unique Names

In this exercise, you will create a program that reads words from the user until the user enters a blank line. After the user enters a blank line your program should display each word entered by the user exactly once. The words should be displayed in the same order that they were first entered. For example, if the user enters:

Input:

first second first third second

then your program should display:

Output:

first second third

Program:

a,c=[],[]
for i in range(0,5):
 b=input()
 a.append(b)
for i in range(len(a)):
 if(a[i] not in c):
 c.append(a[i])
 print(a[i])

	Input	Expected	Got	
~	first second first third second	first second third	first second third	~
~	rec cse it rec cse	rec cse it	rec cse it	*

Passed all tests! ✓

Ex. No.	:	6.10	Date:
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Username Domain Extension

Given a string S which is of the format USERNAME@DOMAIN.EXTENSION, the program must print the EXTENSION, DOMAIN, USERNAME in the reverse order.

Input Format:

The first line contains S.

Output Format:

The first line contains EXTENSION. The second line contains DOMAIN. The third line contains USERNAME.

Boundary Condition:

1 <= Length of S <= 100 Example Input/Output 1:

Input:

vijayakumar.r@rajalakshmi.edu.in

Output:

edu.in rajalakshmi vijayakumar.r

Program:

```
a = input()
ext = a.split('@')[0]
dom = a.split('@')[1].split('.')[0]
userno = a.find('.')
user = a[userno+1:]
print(user)
print(dom, end='\n')
print(ext,end='\n')
```

