

Ex. No. : 6.1 Date: 04.05.2024

Register No.: 230701125 Name: Janarthanan B

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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 1

```
a=input() c,d,s=0,0,0
for i in range(len(a)):
    if(a[i].isalpha()):
        c+=1
elif(a[i].isdigit()):
        d+=1
else:
s+=1
print(c,d,s,sep="\n")
```

	Input	Expected	Got	
~	rec@123	3	3	~
		3	3	
		1	1	
~	P@#yn26at^&i5ve	8	8	~
	7.55	3	3	
		4	4	
~	abc@12&	3	3	~
	Anthrea - Anthrea	2	2	
		2	2	

Passed all tests! 🗸

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Decompress the String

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

Sample Input 1 a2b4c6

Sample Output 1 aabbbbcccccc

```
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	aabbbbccccc	aabbbbccccc	~
~	a12b3d4	aaaaaaaaaaabbbdddd	aaaaaaaaaaabbbdddd	~

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First N Common Chars

Two string values S1, S2 are passed as the input. The program must print first N characters present in S1 which are also present in S2.

Input Format:

The first line contains S1.

The second line contains S2.

The third line contains N.

Output Format:

The first line contains the N characters present in S1 which are also present in S2.

Boundary Conditions:

2 <= N <= 10 2 <= Length of S1, S2 <= 1000

Example Input/Output 1:

Input:

abcbde cdefghbb 3

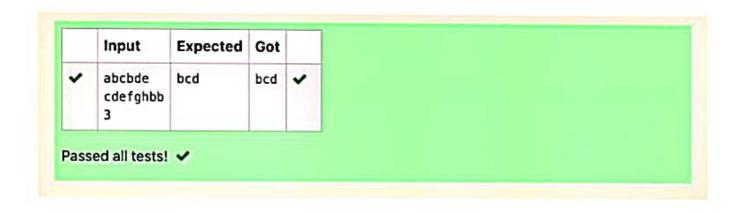
Output:

bcd

Note:

b occurs twice in common but must be printed only once.

```
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)
```



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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

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)

Input	Expected	Got	
experience enc	xpri	xpri	~

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Name:

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:

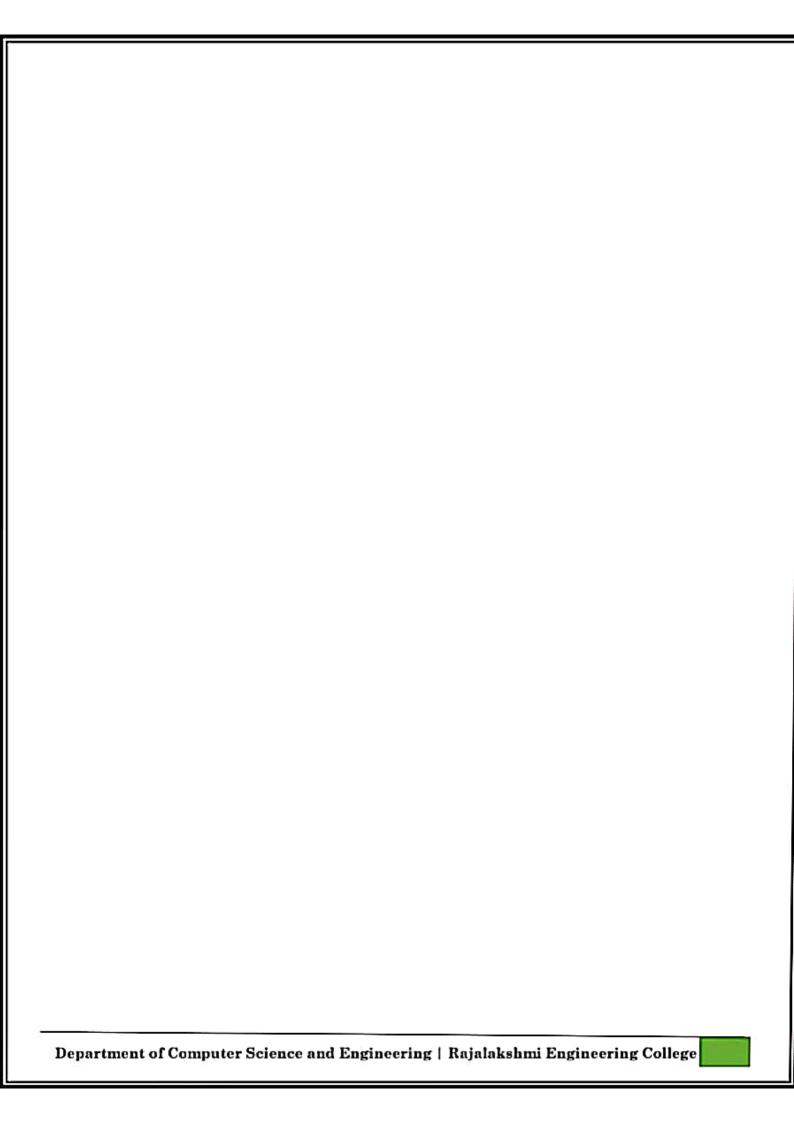
Input Result
Wipro Technologies Bangalore
TECHNOLOGIES
Hello World
WORLD
Hello
LESS

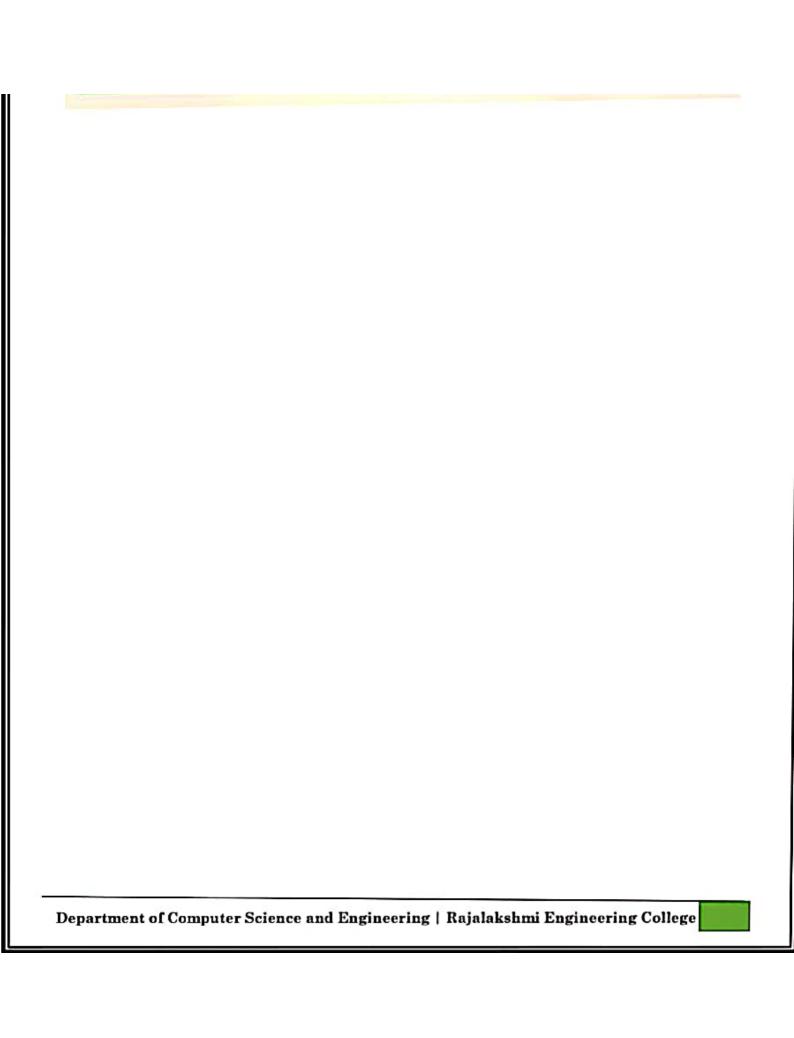
f=input()
s=f.split() if
len(s)>1: c=s[1]
print(c.upper())
else:
 print("LESS")

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





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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#

def reverse_string(s):

s = list(s) l, r = 0,

len(s) - 1

while l < r: if not

s[l].isalpha():

l += 1 elif not

s[r].isalpha():

r = 1

else:

s[l], s[r] = s[r], s[l]

1 += 1 r -= 1

return ".join(s)

Test Cases

print(reverse_string(input())) # Output: "B&A"

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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

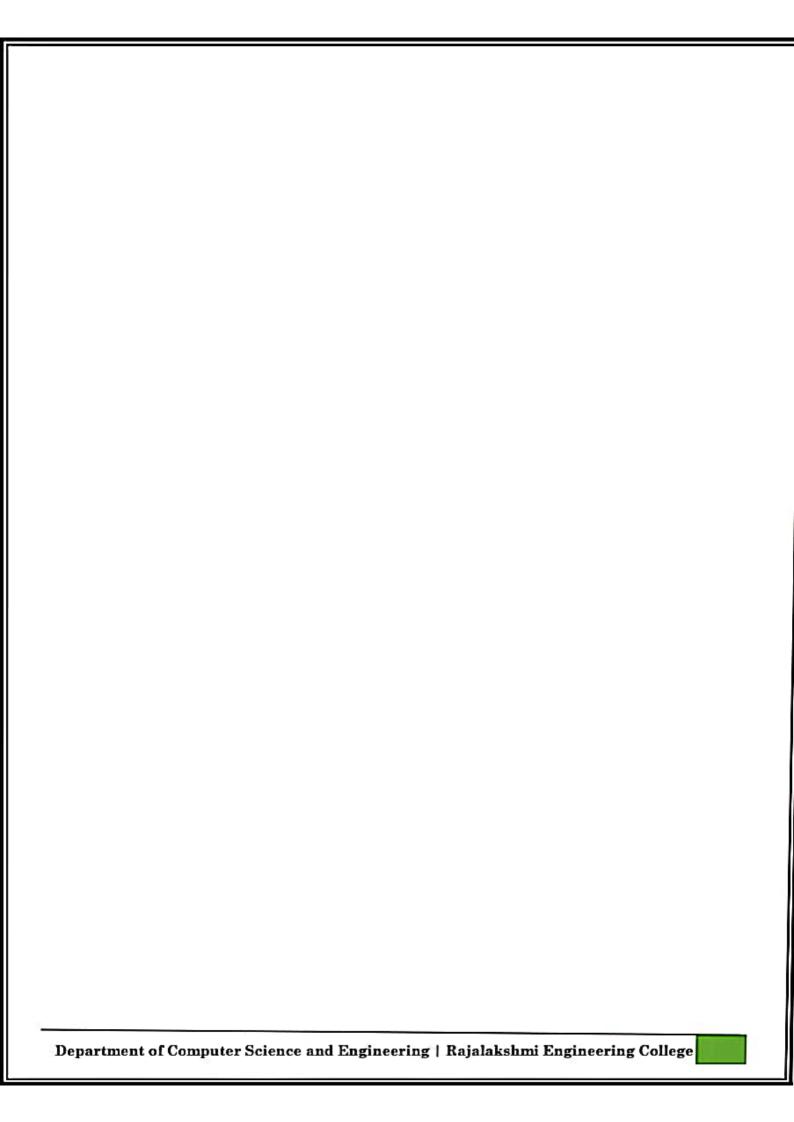
then your program should display:

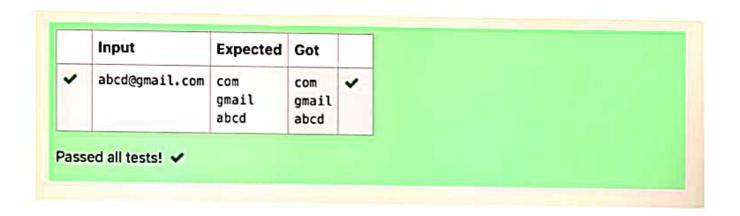
Output:

first second third

```
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	~





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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:

 $1 \le \text{Length of S} \le 100$

Example Input/Output 1:

Input:

vijayakumar.r@rajalakshmi.edu.in

Output:

edu.in rajalakshmi vijayakumar.r

```
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')
```

Ex. No. : 6.8 Date: 04.05.2024

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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

a=input()
b=input() if
a in b:
 print("True") else:
 print("False")

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

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