Ex. No.: 5.1 Date: 17.04.24

Name: JAYGANESH KANNAN Register No.: 231901015

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".

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

Ex. No.: 5.2 Date: 17.04.24

Register No.: 231901015 Name: JAYGANESH KANNAN

```
Assume that the given string has enough memory. Don't use any extra space(IN-
PLACE)
Sample Input 1
a2b4c6
Sample Output 1
aabbbbccccc
Program:
s=input()
r=""
i=0
while i < len(s):
  char=s[i]
  i+=1
  num=""
  while i < len(s) and s[i].isdigit():
    num+=s[i]
    i+=1
  r+=char*int(num)
print(r)
```

Ex. No.: 5.3 Date: 17.04.24

Register No.: 231901015 Name: JAYGANESH KANNAN

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:

Example Input/Output 1:

Input:

abcbde cdefghbb

Output:

bcd

Note:

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

```
Program:
a=input()
b=input()
n=int(input())
bset=set(b)
cc=[]
c=0
for i in a:
  if i in bset and i not in cc:
    cc.append(i)
    c=c+1
    if(c==n):
       break
s=".join(cc)
print(s)
```

Ex. No.: 5.4 Date: 17.04.24

Register No.: 231901015 Name: JAYGANESH KANNAN

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

Program:

s=input() at=s.index('(a)') dot=s.index('.') username=s[:at] domain=s[at+1:dot] exten=s[dot+1:]print(exten) print(domain) print(username)

Ex. No.: 5.5 Date: 17.04.24

Register No.: 231901015 Name: JAYGANESH KANNAN

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

```
Program:
x=input()
a,b,c=0,0,0
for i in x:
  if(i.isalpha()):
     a+=1
  elif(i.isalnum()):
     b+=1
  else:
     c+=1
print(a,b,c,sep="\n")
```

Ex. No.: 5.6 Date: 17.04.24

Register No.: 231901015 Name: JAYGANESH KANNAN

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:
s=input()
l=[]
for i in s:
  if(i.isalpha()):
    l.append(i)
l.reverse()
r=''
index=0
for i in s:
  if(i.isalpha()):
```

r+=l[index]

index+=1

else: r+=iprint(r)

Ex. No.: 5.7 Date: 17.04.24

Register No.: 231901015 Name: JAYGANESH KANNAN

Write a python to read a sentence and print its longest word and its length

```
Program:
sen=input()
words=sen.split()
l=""
maxi=0
for word in words:
  if(len(word)>maxi):
    l=word
    maxi=len(word)
print(l,maxi,sep="\n")
```

Ex. No.: 5.8 Date: 17.04.24

Register No.: 231901015 Name: JAYGANESH KANNAN

String should contain only the words are not palindrome.

```
Sample Input 1
Malayalam is my mother tongue
Sample Output 1
is my mother tongue
Program:
s=input()
words=s.split()
x="
```

for word in words:

if (word!=word[::-1]): print(word,end=" ") Ex. No.: 5.9 Date: 17.04.24

Name: JAYGANESH KANNAN Register No.: 231901015

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: s1=input() s2=input() x=".join(char for char in s1 if char not in s2) print(x)

Ex. No.: 5.10 Date: 17.04.24

Name: JAYGANESH KANNAN Register No.: 231901015

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:

```
l=[]
while(True):
  a=input()
  if a!=" ":
     l.append(a)
  else:
     break
l=dict.fromkeys(l)
for i in l:
  print(i)
```