Started on	Wednesday, 15 May 2024, 4:03 PM
State	Finished
Completed on	Saturday, 18 May 2024, 2:43 PM
Time taken	2 days 22 hours
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	TAMILARASI R 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 1.00

Take a complete sentence as an input and remove duplicate word in it and print (sorted order), then count all the words which have a length greater than 3 and print.

Input

we are good are we good

Output

are good we

Count = 1

For example:

Input	Result
welcome to rec rec cse ece	cse ece rec to welcome Count = 1

Answer: (penalty regime: 0 %)

```
a=input().split()
s=set(a)
unique=list(s)
unique.sort()
count=0
for word in unique:
    print(word,end=" ")
    if len(word)>3:
        count+=1
print("\nCount =",count)
```

	Input	Expected	Got	
✔	we are good are we good	are good we Count = 1	are good we Count = 1	✔
✔	welcome to rec rec cse ece	cse ece rec to welcome Count = 1	cse ece rec to welcome Count = 1	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Check if a set is a subset of another set.

Example:

Sample Input1:

mango apple

mango orange

mango

output1:

yes

set3 is subset of set1 and set2

```
input2:
```

```
mango orange
```

```
banana orange
```

```
grapes
```

```
output2:
```

no

Answer: (penalty regime: 0 %)

```
def is_subset(set1, set2, set3):
    # Convert input strings to sets of unique words
    set1 = set(set1.split())
    set2 = set(set2.split())
    set3 = set(set3.split())

    # Calculate the union of set1 and set2
    combined_set = set1.union(set2)

    # Check if set3 is a subset of the combined_set
    if set3.issubset(combined_set):
        return "yes"
    else:
        return "No"
set1 = input()
set2 = input()
set3 = input()
result = is_subset(set1, set2, set3)
if result=='yes':
    print(result)
    print('set3 is subset of set1 and set2')
else:
```

	Test	Input	Expected	Got	
✔	1	mango apple mango orange mango	yes set3 is subset of set1 and set2	yes set3 is subset of set1 and set2	✔
✔	2	mango orange banana orange grapes	No	No	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

write a program to identify the common item present in three different set but not on the other set and display the items in the sorted order.

input:

10 50 40 60 30

40 30 70 60 30

20 50 10 75 80

output:

20 70 75 80

Answer: (penalty regime: 0 %)

```
def returnlist(s1):
    s1=s1.replace("{"," ")
    s1=s1.replace("}"," ")
    l=s1.split(",")
    list1=[]
    for ele in l:
        list1.append(int(ele))
    return list1

list1=input()
list2=input()
list3=input()
result=[]
list4=[]

list4.append(returnlist(list1))
list4.append(returnlist(list2))
list4.append(returnlist(list3))
for j in list4:
    for i in j:
        x=list4[0].count(i)
        x+=list4[1].count(i)
```

	Test	Input	Expected	Got	
✔	1	{10,50,40,60,30} {40,30,70,60,65} {20,50,10,75,80}	{20,65,70,75,80}	{20,65,70,75,80}	✔
✔	2	{10,15,20,40,50} {30,20,40,10,25} {40,50,10,45,55}	{15,25,30,45,55}	{15,25,30,45,55}	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Given a sorted linked list, delete all duplicates such that each element appear only *once*.

Example 1:

```
Input:
1 1 2
Output:
1 2
```

Example 2:

```
Input:
1 1 2 3 3
Output:
1 2 3
```

Answer: (penalty regime: 0 %)

```
List=list(map(int,input().split(" ")))
List=list(set(List))
List.sort()
for i in List:
    print(i,end=" ")

```

	Test	Input	Expected	Got	
✔	1	1 1 2	1 2	1 2	✔
✔	2	1 1 2 3 3	1 2 3	1 2 3	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

Given two lists, print all the common element of two lists.

Note: Sort the list before printing.

Examples:

```
Input :
1 2 3 4 5
5 6 7 8 9
Output :
5

Input :
1 2 3 4 5
6 7 8 9
Output :
No common elements

Input :
1 2 3 4 5 6
5 6 7 8 9
Output :
5 6
```

Answer: (penalty regime: 0 %)

```
List1=list(map(int,input().split(" ")))
List2=list(map(int,input().split(" ")))
List=list(set(List1) & set(List2))
if List:
    for i in List:
        print(i,end=" ")
else:
    print("No common elements")

```

	Input	Expected	Got	
✔	1 2 3 4 5 5 6 7 8 9	5	5	✔
✔	1 2 3 4 5 6 7 8 9	No common elements	No common elements	✔

Passed all tests! ✔