Dashboard / My courses / CD19411-PPD-2022 / WEEK_09-Set / WEEK-09_CODING

Started on	Friday, 26 April 2024, 6:24 PM
State	Finished
Completed on	Tuesday, 30 April 2024, 2:40 PM
Time taken	3 days 20 hours
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	SHEEBA SHARON A 2022-CSD-A

Question **1**

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 %)

```python
 1  def return_list(str):
 2      list=[]
 3      str_list=str.split(" ")
 4      for i in str_list:
 5          temp=int(i)
 6          list.append(temp)
 7      return list
 8  str1=input()
 9  list1=return_list(str1)
10  str2=input()
11  list2=return_list(str2)
12  flag=0
13  for ele in list1:
14      if ele in list2:
15          print(ele,end=" ")
16          flag=1
17  if flag==0:
18      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! ✔

Correct

Marks for this submission: 1.00/1.00.

Correct

Marks for this submission: 1.00/1.00.

Question **2**

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 %)

```
 1  sent = input()
 2  sent = sent.split()
 3  sent_set = set(sent)
 4  unique_words = list(sent_set)
 5  unique_words.sort()
 6  count = 0
 7  for word in unique_words:
 8      print(word, end=" ")
 9      if len(word) > 3:
10          count += 1
11  print("\nCount =", count)
12
13
14
```

	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 **3**

Correct

Mark 1.00 out of 1.00

You are given an array of N integers, A1, A2, . . . , AN and an integer K. Return the of count of distinct numbers in all windows of size K.

Input :

1 2 1 3 4 3

3

Output :

2

3

3

2

Explanation

All windows of size K are

[1, 2, 1]

[2, 1, 3]

[1, 3, 4]

[3, 4, 3]

Answer: (penalty regime: 0 %)

```
 1  li=input()
 2  li=li.split(" ")
 3  list1=[]
 4  for i in li:
 5      list1.append(int(i))
 6  k=int(input())
 7  for i in range(len(list1)-k+1):
 8      temp=[]
 9      for j in range(0,k):
10          temp.append(list1[j+i])
11      print(len(set(temp)))
12
```

	Input	Expected	Got	
✔	1 2 1 3 4 3 3	2 3 3 2	2 3 3 2	✔

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 %)

```python
1  arr = input().split()
2  list1 = set(map(int, arr))
3  list = sorted(list1)
4  for num in list:
5      print(num, end=" ")
6
```

	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

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 %)

```
 1  def return_list(str1):
 2      str1=str1.replace("{","")
 3      str1=str1.replace("}","")
 4      l=str1.split(",")
 5      list1=[]
 6      for ele in l:
 7          list1.append(int(ele))
 8      return list1
 9  list1=input()
10  list2=input()
11  list3=input()
12  result=[]
13  list_of_list=[]
14
15  list_of_list.append(return_list(list1))
16  list_of_list.append(return_list(list2))
17  list_of_list.append(return_list(list3))
18  for j in list_of_list:
19      for i in j:
20          x=list_of_list[0].count(i)
21          x+=list_of_list[1].count(i)
22          x+=list_of_list[2].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.

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Jump to...

WEEK-09-Extra ►