***Student Name : Dhaval Gogri***

***ID : 47444609***

***Program : Quest1 – Basic Python***

*# Basic Python Quest  
# When returning lists of values, order is not important unless specified*\_\_STUDENT\_ID\_\_ = **"47444609"** *# replace with your 8 digit student id*\_\_CODING\_NAME\_\_ = **"Code Gladiator"** *# replace with your coding name -***def** isSorted(list):  
 isListSorted = **True   
 for** i **in** range(1, len(list)):  
 **if** (list[i] < list[i-1]):  
 **return False   
 return** isListSorted   
  
  
**def** isSortedAndUnique(list):  
 isListSortedAndUnique = **True   
 for** i **in** range(1, len(list)):  
 **if** (list[i] <= list[i - 1]):  
 **return False   
 return** isListSortedAndUnique   
  
  
**def** hasUniqueValues(list):  
 hasUniqueValues = **True** dict = {}  
 **for** i **in** range(0, len(list)):  
 **if** list[i] **in** dict:  
 **return False  
 else**:  
 dict[list[i]] = 1  
 **return** hasUniqueValues  
  
  
**def** genSortedArrayUniqueValues(list):  
 **for** i **in** range(0, len(list) - 1):  
 **for** j **in** range(i+1, len(list) - 1):  
 **if** (list[j] > list[j + 1]):  
 list[j], list[j + 1] = list[j + 1], list[j]  
  
 sortedUniqueArray = []  
 sortedUniqueArray.append(list[0])  
 **for** i **in** range(0, len(list)):  
 **if** (list[i] > list[i - 1]):  
 sortedUniqueArray.append(list[i])  
 **return** sortedUniqueArray  
  
  
**def** listToMapTwoByTwo(list):  
 dict = {}  
 **for** i **in** range(0, len(list) - 1 , 2):  
 dict[list[i]] = list[i + 1]  
 **return** dict  
  
**def** wordsInStringToDictWordCount(s):  
 splitWords = s.split()  
 dict = {}  
 **for** i **in** range(0, len(splitWords)):  
 **if** splitWords[i] **in** dict:  
 dict[splitWords[i]] = dict.get(splitWords[i]) + 1   
 **else**:  
 dict[splitWords[i]] = 1  
 **return** dict  
  
  
**def** reverseWordsInString(string):  
 splitWords = string.split()  
 reverseString = splitWords[len(splitWords) - 1]  
 **for** i **in** range(len(splitWords) - 2, -1, -1):  
 reverseString = reverseString + **" "** + splitWords[i]  
 **return** reverseString  
  
  
  
**def** genListOfOverlaps(list1, list2):  
 overlappingLists = []  
 **for** i **in** range(0, len(list1)):  
 **for** j **in** range(0, len(list2)):  
 **if**(list1[i] == list2[j]):  
 overlappingLists.append(list1[i])  
 **break  
  
 return** genSortedArrayUniqueValues(overlappingLists)  
  
  
**def** removeDupsNoSet(list):  
 dict = {}  
 noDuplicateSet = []  
 **for** i **in** range(0, len(list)):  
 **if** list[i] **in** dict:  
 dict[list[i]] = dict.get(list[i]) + 1   
 **else**:  
 dict[list[i]] = 1  
 **for** key **in** dict.keys():  
 noDuplicateSet.append(key)  
 **return** noDuplicateSet  
  
  
**def** removeDupsUseSet(list1):  
 **return** list(set(list1))  
  
**if** \_\_name\_\_ == **'\_\_main\_\_'**:  
 print (**'ready to go'**)

***OUTPUT SCREENSHOT***

