**LISTS:**

1.[Write a program in Python for, In array 1-100 numbers are stored, one number is missing how do you find it.](https://quescol.com/interview-preparation/find-missing-number-in-array-in-python)

2. [Write a program in Python for, In a array 1-100 multiple numbers are duplicates, how do you find it.](https://quescol.com/interview-preparation/find-duplicates-in-an-array-python)

[**3.** Write a program in Python for, How to find all pairs in array of integers whose sum is equal to given number.](https://quescol.com/interview-preparation/python-coding-question)

**Input** : arr[] = {1, 5, 7, -1}, sum = 6

**Output** : 2

Pairs with sum 6 are (1, 5) and (7, -1)

**Input** : arr[] = {1, 5, 7, -1, 5}, sum = 6

**Output** : 3

Pairs with sum 6 are (1, 5), (7, -1) & (1, 5)

[**4.** Write a program in Python for, How to compare two array is equal in size or not.](https://quescol.com/interview-preparation/compare-two-array-size)

[**5.** Write a program in Python to find largest and smallest number in array.](https://quescol.com/interview-preparation/smallest-and-largest-in-array-in-python)

[**6.** Write a program in Python to find second highest number in an integer array.](https://quescol.com/interview-preparation/second-largest-number-in-an-array-python)

[**7**. Write a program in Python to remove duplicate elements form array.](https://quescol.com/interview-preparation/remove-duplicates-from-array-python)

[**8.** Python program to print array in reverse Order.](https://quescol.com/interview-preparation/reverse-array-python-while-loop)

**Strings**

[**Q1).** Python program to remove given character from String.](https://quescol.com/interview-preparation/remove-a-character-from-string-in-python)

[**Q2).** Python Program to count occurrence of a given characters in string.](https://quescol.com/interview-preparation/count-characters-in-string)

[**Q3).** Python program to check a String is palindrome or not.](https://quescol.com/interview-preparation/palindrome-program-of-string-in-python)

[**Q4).** Python program to check given character is vowel or consonant.](https://quescol.com/interview-preparation/vowel-consonant-python-program)

[**Q5).** Python program to count Occurrence Of Vowels & Consonants in a String.](https://quescol.com/interview-preparation/count-vowel-consonant-string-python)

**Tuples, sets and Dictionaries**

1. [Python program to find tuples which have all elements divisible by K from a list of tuples](https://www.geeksforgeeks.org/python-program-to-find-tuples-which-have-all-elements-divisible-by-k-from-a-list-of-tuples/)

***Input****: test\_list = [(6, 24, 12), (60, 12, 6), (12, 18, 21)], K = 6****Output****: [(6, 24, 12), (60, 12, 6)]****Explanation****: Both tuples have all elements multiple of 6.*

***Input****: test\_list = [(6, 24, 12), (60, 10, 5), (12, 18, 21)], K = 5****Output****: [(60, 10, 5)]****Explanation****: Multiple of 5 tuples extracted.*

2. [Cross Pairing in Tuple List](https://www.geeksforgeeks.org/python-cross-pairing-in-tuple-list/)

***Input****: test\_list1 = [(1, 7), (6, 7), (8, 100), (4, 21)], test\_list2 = [(1, 3), (2, 1), (9, 7), (2, 17)]****Output****: [(7, 3)]****Explanation****: 1 occurs as tuple element at pos. 1 in both tuple, its 2nd elements are paired and returned.*

***Input****: test\_list1 = [(10, 7), (6, 7), (8, 100), (4, 21)], test\_list2 = [(1, 3), (2, 1), (9, 7), (2, 17)]****Output****: []****Explanation****: NO pairing possible.*

3. Define a python function ‘orangecap(d)’ which reads a dictionary ‘d’ of the following form and identify,ies the player with the highest total score.The function should return a pair(player name,topscore),where player name is the name of the player with the highest score and top score is the total runs scored by the player.

Input:

Orangecap({‘test1’:{‘Dhoni’:74, ‘Kohli’:150}, ’test2’: {‘Dhoni’:29, ‘Pujara’:42}})

Output:

(‘Kohli’:150)

From the above program,we can analyze the runs scored by each player in both tests as

Dhoni=74+29=103

Kohli=150+0=150

Pujara=0+42=42

Thus Kohli scored the most runs in both the test matches and he will be awarded the orangecap for this tournament.

4.Create a program that determines and displays the number of unique characters in a string entered by the user. For example, Hello, World! has 10 unique characters whilezzzhas only one unique character. Use a dictionary to solve this problem.

5.Two words are anagrams if they contain all of the same letters, but in a different

order. For example, “evil” and “live” are anagrams because each contains one e, one

i, one l, and one v. Create a program that reads two strings from the user, determines whether or not they are anagrams, and reports the result.