## Triplets

Triplets are a set of three similar things.

Complete the function to print all the triplets <A, B, C> such that A+B = C

public static void PrintTriplets(int[ ] data)

{

//write code here

}

|  |  |  |
| --- | --- | --- |
| UTC | Sample Input | Sample Output |
| 01 | data = {2,3,4,5,7} | <2,3,5>  <2,5,7>  <3,4,7> |
| 02 | array = {1,2,3,4,5,7,9} | <1,2,3>  <1,3,4>  <1,4,5>  <2,3,5>  <2,5,7>  <3,4,7>  <4,5,9> |

## Consecutive Characters

Complete the method to print the consecutive characters and the number of times appearing in a String.

public static void PrintConsecutiveCharacters(string input)

{

//write code

}

|  |  |  |
| --- | --- | --- |
| UTC | Sample Input | Sample Output |
| 01 | “I saw a CD player and a modem in ccd” | CD 2  DE 1 |
| 02 | “Student List do not exist in system” | ST 4  DE 1  NO 1 |

## Sort Names by First Name

Names are stored in the pattern last name first pattern [lastName, firstName].

For example given the name “Sharma, Rakesh”, “Rakesh” is first name and “Sharma” is last name.

Complete the method provided to return the collection of strings sorted based on their first name.

Method:

public static String[ ] SortByFirstName(string[ ] names)

{

// code here

}

|  |  |  |
| --- | --- | --- |
| UTC | Sample Input | Sample Output |
| 01 | “Sharma, Rakesh”, “Patil, Parthiv”, “Gowda, Anil”,  “Prasad, Vishnu”, “Khan, Amir” | “Khan, Amir”, “Gowda, Anil”, “Patil, Parthiv”, “Sharma, Rakesh”, “Prasad, Vishnu” |
| 02 | “Krishna, Gopal”, “Page,  Larry”, “King, Gavin”,  “Swamy, Krishna” | “King, Gavin” , “Krishna, Gopal”, “Swamy, Krish-na”, “Page, Larry” |

**Note**: Single Space is required between “,” and first name in the output.

## Duplicate Words

Given a sentence, return all the unique words in one. The words should be stored in sorted order. As illustrated, given a sentence-“Do not call me, let me call you”.

The unique collection will have “Do”, “not”, “let”, ”you”.

Method:

public static String[ ] getUniqueData(String sentence) {

}

Input: Standard input consists of a string sentence

Output: Output should contain unique array of strings

|  |  |  |
| --- | --- | --- |
| UTC | Sample Input | Sample Output |
| 01 | “Do not call me, let me call you” | {“do"**,** "let"**,** "not"**,** "you"} |
| 02 | “I had coffee at a coffee shop yesterday during coffee break” | {“a"**,**"at"**,**"break"**,**"during"**,**"had"**,**"I"**,**"shop"**,**"yesterday"} |