**7 kyu**

**Maximum Triplet Sum (Array Series #7)**

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C#

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**Task**

***Given*** an *array/list [] of n integers* , *find maximum triplet sum in the array* ***Without duplications*** .

**Notes :**

* ***Array/list*** size is *at least 3* .
* ***Array/list*** numbers could be a *mixture of positives , negatives and zeros* .
* ***Repeatition*** of numbers in *the array/list could occur* , So ***(duplications are not included when summing)***.

**Input >> Output Examples**

1- maxTriSum ({3,2,6,8,2,3}) ==> return (17)

***Explanation***:

* As the ***triplet*** that *maximize the sum* ***{6,8,3}*** in order , ***their sum is (17)***
* *Note* : ***duplications*** *are not included when summing* , **(i.e) the numbers added only once** .

2- maxTriSum ({2,1,8,0,6,4,8,6,2,4}) ==> return (18)

***Explanation***:

* As the ***triplet*** that *maximize the sum* ***{8, 6, 4}*** in order , ***their sum is (18)*** ,
* *Note* : ***duplications*** *are not included when summing* , **(i.e) the numbers added only once** .

3- maxTriSum ({-7,12,-7,29,-5,0,-7,0,0,29}) ==> return (41)

***Explanation***:

* As the ***triplet*** that *maximize the sum* ***{12 , 29 , 0}*** in order , ***their sum is (41)*** ,
* *Note* : ***duplications*** *are not included when summing* , **(i.e) the numbers added only once** .

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ALL translations are welcomed

Enjoy Learning !!

**Zizou**

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

public static int MaxTriSum(int[] a)

{

HashSet<int> hs = new HashSet<int>(a);

int[] u = hs.ToArray();

Array.Sort(u);

int sum = 0;

if (u.Length < 3) return u.Sum();

for(int i = u.Length-3; i<u.Length; i++)

{

sum += u[i];

}

return sum;

}

static void Main(string[] args)

{

int[] arr = { 1,1,1 };

Console.WriteLine(MaxTriSum(arr));

Console.ReadLine();

}

}

}