**7 kyu**

**Balanced Number (Special Numbers Series #1 )**

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C#

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**Definition**

***Balanced number*** is the number that ***The sum of****all digits to the****left of the middle****digit(s) and the sum of all digits to the****right of the middle****digit(s) are****equal***.

**Task**

***Given*** a number, ***Find if it is Balanced or not*** .

**Warm-up (Highly recommended)**

[**Playing With Numbers Series**](https://www.codewars.com/collections/playing-with-numbers)

**Notes**

* *If* the ***number has an odd number of digits*** then ***there is only one middle digit***, e.g. 92645 has middle digit 6; ***otherwise***, there are ***two middle digits*** , e.g. 1301 has middle digits 3 and 0
* ***The middle digit(s)*** should ***not*** be considered when *determining whether a number is balanced or not*, ***e.g*** 413023 is a ***balanced number because the left sum and right sum are both*** 5.
* ***Number*** *passed is always* ***Positive*** .
* ***Return*** *the result as* ***String***

**Input >> Output Examples**

1- balancedNum (7) ==> return "Balanced" .

***Explanation***:

* ***Since*** , ***The sum of*** *all digits to the* ***left of the middle*** digit (0)
* and ***the sum of*** *all digits to the* ***right of the middle*** digit (0) are ***equal*** , ***then*** *It's* ***Balanced***

2- balancedNum (295591) ==> return "Not Balanced" .

***Explanation***:

* ***Since*** , ***The sum of*** *all digits to the* ***left of the middle*** digits (11)
* and ***the sum of*** *all digits to the* ***right of the middle*** digits (10) are ***equal*** , ***then*** *It's* ***Not Balanced***
* ***Note*** : ***The middle digit(s)*** *are* ***55*** .

3- balancedNum (959) ==> return "Balanced" .

***Explanation***:

* ***Since*** , ***The sum of*** *all digits to the* ***left of the middle*** digits (9)
* and ***the sum of*** *all digits to the* ***right of the middle*** digits (9) are ***equal*** , ***then*** *It's* ***Balanced***
* ***Note*** : ***The middle digit*** *is* ***5*** .

4- balancedNum (27102983) ==> return "Not Balanced" .

***Explanation***:

* ***Since*** , ***The sum of*** *all digits to the* ***left of the middle*** digits (10)
* and ***the sum of*** *all digits to the* ***right of the middle*** digits (20) are ***equal*** , ***then*** *It's* ***Not Balanced***
* ***Note*** : ***The middle digit(s)*** *are* ***02*** .

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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 string BalancedNumber(int number)

{

string n = number.ToString();

int medios = n.Length % 2 != 0 ? 1 : 2;

int i = 0;

int j = n.Length - 1;

int izq = 0;

int der = 0;

while (i<j-medios)

{

izq += (n[i] - '0');

der += (n[j] - '0');

i++;

j--;

}

//Console.WriteLine(izq + " " + der);

return izq == der ? "Balanced" : "Not Balanced";

}

static void Main(string[] args)

{

int num =56239814;

//"Balanced"

Console.WriteLine( BalancedNumber(num));

Console.ReadLine();

}

}

}