**7 kyu**

**STRONGN Strong Number (Special Numbers Series #2)**

10691% of 18030 of746[MrZizoScream](https://www.codewars.com/users/MrZizoScream)

C#

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**Definition**

***Strong number*** is the number that *the sum of the factorial of its digits is equal to number itself*.

***For example*** : ***145*** , since

1! + 4! + 5! = 1 + 24 + 120 = 145

So, ***145*** is a ***Strong number***.

**Task**

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

**Warm-up (Highly recommended)**

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

**Notes**

* ***Number*** *passed is always* ***Positive*** .
* ***Return*** *the result as* ***String***

**Input >> Output Examples**

1- strong\_num (1) ==> return "STRONG!!!!"

***Explanation***:

Since , ***the sum of its digits' factorial of (1) is equal to number itself (1)*** , ***Then*** its a ***Strong*** .

2- strong\_num (123) ==> return "Not Strong !!"

***Explanation***:

Since , ***the sum of its digits' factorial of 1! + 2! + 3! = 9 is not equal to number itself (123)*** , ***Then*** it's ***Not Strong*** .

3- strong\_num (2) ==> return "STRONG!!!!"

***Explanation***:

Since , ***the sum of its digits' factorial of 2! = 2 is equal to number itself (2)*** , ***Then*** its a ***Strong*** .

4- strong\_num (150) ==> return "Not Strong !!"

***Explanation***:

Since , ***the sum of its digits' factorial of 1! + 5! + 0! = 122 is not equal to number itself (150)*** , ***Then*** it's***Not Strong*** .

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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 StrongNumber(int number)

{

int[] dic = new int[10];

dic[0] = 1;

for (int i = 1; i <= 9; i++) dic[i] = dic[i - 1] \* i;

int sum\_f = 0;

int c = number;

while (c> 0)

{

sum\_f += dic[c%10];

c /= 10;

}

return sum\_f == number ? "STRONG!!!!" : "Not Strong !!";

}

static void Main(string[] args)

{

Console.WriteLine( StrongNumber(123));

Console.ReadLine();

}

}

}