**7 kyu**

**Sum of numbers from 0 to N**

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C#

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**Description:**

We want to generate a function that computes the series starting from 0 and ending until the given number following the sequence:

0 1 3 6 10 15 21 28 36 45 55 ....

which is created by

0, 0+1, 0+1+2, 0+1+2+3, 0+1+2+3+4, 0+1+2+3+4+5, 0+1+2+3+4+5+6, 0+1+2+3+4+5+6+7 etc..

**Input:**

LastNumber

**Output:**

series and result

Example:

**Input:**

> 6

**Output:**

0+1+2+3+4+5+6 = 21

**Input:**

> -15

**Output:**

-15<0

**Input:**

> 0

**Output:**

0=0

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp2

{

class Program

{

public static string ShowSequence(int n)

{

// return "";

if (n < 0) return n + "<0";

if (n == 0) return "0=0";

StringBuilder sb = new StringBuilder();

int sum = 0;

for (int i = 0; i <= n; i++)

{

sb.Append(i + "");

sb.Append("+");

sum += i;

}

return sb.ToString().TrimEnd('+') + " = " + sum + "";

}

static void Main(string[] args)

{

Console.ReadLine();

}

}

}