This is a [reverse challenge](keyword://reverse-challenge). No hints given :)

Have fun!

* **[time limit] 3000ms (cs)**
* **[input] integer n**

*Constraints:*  
1 ≤ n ≤ 12.

* **[output] integer**

<https://codefights.com/challenge/pvyQzct8QsRsAXoyZ/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication2

{

class Program

{

static int addToFactorial(int n)

{

int prod = 1;

int sum = 0;

for (int i = 1; i <= n; i++)

{

prod \*= i;

sum += i;

}

return prod + sum;

}

static void Main(string[] args)

{

Console.WriteLine(addToFactorial(4));

Console.ReadLine();

}

}

}