n! is commonly known as "n factorial" or n\*(n-1)*(n-2)*(n-3)*...*(1). You need to compute the following value: n!+(n-1)!+(n-2)!+(n-3)!+...+(1)! Example: For n=3, 3!+2!+1!=6+2+1=9, so output should be 9.

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

an integer n (0<n<13)

* **[output] integer**

n!+(n-1)!+(n-2)!+(n-3)!+...+(1)!

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

static int SoF(int n)

{

Dictionary<int, int> diccio = new Dictionary<int, int>();

diccio[0]=0;

diccio[1]=1;

diccio[2]=3;

diccio[3]=9;

diccio[4]=33;

diccio[5]=153;

diccio[6]=873;

diccio[7]=5913;

diccio[8]=46233;

diccio[9]=409113;

diccio[10]=4037913;

diccio[11]=43954713;

diccio[12]=522956313;

return diccio[n];

}