**Factorial Sum**

Adapted by Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

Read two numbers M and N indefinitely. Calculate and write the sum of their factorial. Be carefull, because the result can have more than 15 digits.

**Input**

The input file contains many test cases. Each test case contains two integer numbers M (0 ≤ M ≤ 20) and N (0 ≤ N ≤ 20). The end of file is determined by eof.

**Output**

For each test case in the input your program must print a single line, containing a number that is the sum of the both factorial (M and N).

| **Input Sample** | **Output Sample** |
| --- | --- |
| 4 4  0 0  0 2 | 48 2 3 |

<https://www.urionlinejudge.com.br/judge/es/problems/view/1161>

static long factorial(long n)

{

long prod = 1;

for (long i = 2; i <= n; i++)

{

prod \*= i;

}

return prod;

}

static void Main(string[] args)

{

while (true)

{

string input = Console.ReadLine();

if (input == null) break;

int m =int.Parse(input.Split(' ')[0]);

int n = int.Parse(input.Split(' ')[1]);

Console.WriteLine(factorial(m) + factorial(n));

}

Console.ReadLine();

}