**factorial**

You have been given a positive integer *N*. You need to find and print the **Factorial** of this number. The Factorial of a positive integer *N* refers to the product of all number in the range from *1* to *N*. You can read more about the factorial of a number [here.](https://en.wikipedia.org/wiki/Factorial)

**Input Format**:  
The first and only line of the input contains a single integer *N* denoting the number whose factorial you need to find.

**Output Format**  
Output a single line denoting the factorial of the number *N*.

**Constraints**  
1≤N≤10

**SAMPLE INPUT**

2

**SAMPLE OUTPUT**

2