Factorial

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	64 megabytes

Given a number N. Print factorial of N.

Note: Solve this problem using recursion.

Input

Only one line containing a number N $(1 \leq N \leq 20)$.

Output

Print the factorial of the number N.

Example

standard input	standard output
5	120