

A. Factorial

time limit per test: 2 seconds
memory limit per test: 64 megabytes
input: standard input
output: standard output

Print the factorial of the given integer number n . The factorial of n is equal to $1 \cdot 2 \cdot \dots \cdot n$.

Input

The only line contains n ($1 \leq n \leq 10$).

Output

Print the factorial of n .

Examples

input
3
output
6

input
5
output
120