Objective

Today, we're discussing JavaScript functions. Check out the attached tutorial for more details.

Task

Implement a function named factorial that has one parameter: an integer, n. It must return the value of $n!$ (i.e., n factorial).

Input Format

Locked stub code in the editor reads a single integer, n, from stdin and passes it to a function named factorial.

Constraints

- $1 \leq n \leq 10$

Output Format

The function must return the value of $n!$.

Sample Input 0

```
4
```

Sample Output 0

```
24
```

Explanation 0

We return the value of $4! = 4 \times 3 \times 2 \times 1 = 24$.