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## Recursive factorial

P12509\_en

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Write a function that returns  $n!$ .

Solve this problem recursively.

### Interface

```
C++      int factorial (int n);
C        int factorial (int n);
Java     public static int factorial (int n);
Python   factorial (n) # returns int
         factorial (n: int) → int
```

### Precondition

Assume  $0 \leq n \leq 12$ .

### Observation

You only need to submit the required procedure; your main program will be ignored.

### Problem information

Author : Jordi Petit

Translator : Carlos Molina

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