
Recursive factorial

P12509_en

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

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