Iterative factorial

Write an iterative function that, given a natural \( n \), returns its factorial \( n! \).

**Interface**

- C++: `int factorial (int n);`
- C: `int factorial (int n);`
- Java: `public static int factorial (int n);`
- Python: `def 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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