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// FunctionIterationFactorial_Ch 5.cpp : Defines the entry point for the console
// application.
#include "stdafx.h"
#include <iostream>
#include <iomanip>
using namespace std;
unsigned long factorial(unsigned int); // function prototype
int main() {
    // calculate the factorial of 0 - 10
    for (unsigned int counter{ 1 }; counter <= 10; ++counter) {</pre>
         cout << counter << setw(2) << "! = " << factorial(counter)</pre>
         << endl;
     }
    system("pause");
    return 0;
// iterative function factorial
unsigned long factorial(unsigned int number) {
    unsigned long result{ 1 };
    // iteratve factorial calculation
    for (unsigned int i{ number }; i >= 1; i--) {
         result *= i;
     }
```

return result;

}