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// FunctionRecursion_Ch 6.cpp : Defines the entry point for the console
// application.
#include "stdafx.h"
#include <iostream>
#include <iomanip>
using namespace std;
unsigned long factorial(unsigned long); // function prototype
int main() {
    // calculate the factorials of 0 - 10 and print result
    for (unsigned int counter{ 0 }; counter <= 10; ++counter) {</pre>
         cout << setw(2) << counter << "! " << factorial(counter)</pre>
              << endl:
     }
    system("pause");
    return 0;
// recursive definition of function factorial
unsigned long factorial(unsigned long number) {
    if (number <= 1) { // test for base case</pre>
         return 1; // base cases: 0! = 1, 1! = 1
    else { // recursion step
         return number * factorial(number - 1);
     }
```