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/* Answer on Question #38845 - Programming - C++ */  
  
#include <iostream>  
  
using namespace std;  
  
unsigned long long factorial(unsigned int number)  
{  
    return (number < 2) ? 1 : number * factorial(number - 1);  
}  
  
int main()  
{  
    int number;  
    cout << "Enter a non-negative number (up to 20): \n";  
  
    if (!(cin >> number) || number < 0 || number > 20)  
    {  
        cout << "Invalid number.\n";  
        return -1;  
    }  
  
    cout << "The factorial is: \n" << factorial((unsigned int)number);  
    return 0;  
}
```