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//
//  main.cpp
//  C++ Terminal
//
//  Created by Jiaqi Li on 2019/5/29.
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// Program to calculate factorial of an integer

#include <iostream>

int main()
{
    int a;
    int b;
    std::cout << "Please enter a integer value: ";
    std::cin >> a;
    b = a;

    if (a!=0)
    {
        for(a;a>1; --a)
        {
            b = b*(a-1);
        }
    }

    else
    {
        b = 1;
    }

    std::cout << "Its factorial is " << b << ".\n";

    return 0;
}
```