

Chris Taylor
Chapter 3 C++
Exercise 07

```
#include <iostream>
#include <iomanip>
#include <string>

using namespace std;

int main()
{
    const double ADULT_TICKET_PRICE = 10.00;
    const double CHILD_TICKET_PRICE = 6.00;
    const double GROSS_PERCENTAGE = 0.2;

    string movieName;
    int adultCount, childCount;
    double grossBoxOfficeProfit, netBoxOfficeProfit;

    cout << "What is the name of the movie? ";
    getline(cin, movieName);
    cout << "How many adult tickets sold? ";
    cin >> adultCount;
    cout << "How many child tickets sold? ";
    cin >> childCount;

    grossBoxOfficeProfit =
        (adultCount * ADULT_TICKET_PRICE) +
        (childCount * CHILD_TICKET_PRICE);
    netBoxOfficeProfit = grossBoxOfficeProfit * GROSS_PERCENTAGE;

    cout << setw(30) << left << "Movie Name: " << movieName <<
endl;
    cout << setprecision(2) << fixed;
    cout << setw(30) << left << "Adult Tickets Sold: "
        << adultCount << endl;
    cout << setw(30) << left << "Child Tickets Sold: "
        << childCount << endl;
    cout << setw(30) << left << "Gross Box Office Profit:"
        << "$" << grossBoxOfficeProfit << endl;
    cout << setw(30) << left << "Net Box Office Profit:"
        << "$" << netBoxOfficeProfit << endl;
    cout << setw(30) << left << "Amount Paid to Distributor:"
        << "$" << grossBoxOfficeProfit - netBoxOfficeProfit <<
endl;
    return 0;
}
```

```
BU158-iMAC03:CH03 squall$ g++ 07.cpp && ./a.out
What is the name of the movie? The Science of Flowers
How many adult tickets sold? 75
How many child tickets sold? 14
Movie Name:                The Science of Flowers
Adult Tickets Sold:        75
Child Tickets Sold:        14
Gross Box Office Profit:    $834.00
Net Box Office Profit:      $166.80
Amount Paid to Distributor: $667.20
```