Box Office

A movie theater only keeps a percentage of the revenue earned from ticket sales. The remainder goes to the distibutor. Write a program that calculates a theater's gross and net box office profit for a night. The program should ask for the name of the movie, and how many adult and child tickets were sold. (The price of an adult ticket is \$6.00 and a child's ticket is \$3.00.) It should display a report similar to the following:

Movie Name: "Wheels of Fury"

Adult Tickets Sold: 382

Child Tickets Sold: 127

Gross Box Office Profit: \$ 2673.00

Amount Paid to Distributor: -\$ 2138.40

Net Box Office Profit: \$ 534.60

Assume the theater keeps 20 percent of the gross box office profit.

Use the suggested variables for this problem:

```
THEATER PCT = .80, // Percent of gross kept by theater
DISTRIBUTOR PCT = .20, // Percent of gross paid to distributor
ADULT PRICE = 10.00, // Price of an adult ticket
CHILD_PRICE = 6.00; // Price of a child ticket
                             // Name of the movie
string movieName;
double grossRevenue,
                              // Total ticket sales amount
                                // Theater's net revenue
         netRevenue,
                                 // Amount paid to distributor
         distributorAmt;
                               // Number of adult tickets sold
int
        adultTickets,
                               // Number of child tickets sold
        childTickets;
```