```
// This program will read in the quarterly sales transactions for a given
number
// of years. It will print the year and transactions in a table format.
// It will calculate year and quarter total transactions.
// PLACE YOUR NAME HERE
#include <iostream>
#include <iomanip>
using namespace std;
const int MAXYEAR = 10;
const int MAXCOL = 5;
typedef int SalesType[MAXYEAR][MAXCOL]; // creates a new 2D integer data type
void printTableHeading();
                           // prints table heading
int main()
   int yearsUsed;  // holds the number of years used
SalesType sales;  // 2D array holding the sales transactions
   // calls procedure to print the heading
   printSales(sales, yearsUsed); // calls printSales to display table
  return 0;
}
// printTableHeading
//
// task:
          This procedure prints the table heading
// data in: none
   data out: none
//
//
void printTableHeading()
₹
   cout << setw(30) << "YEARLY QUARTERLY SALES" << endl << endl << endl;</pre>
   cout << setw(10) << "YEAR" << setw(10) << "Quarter 1"</pre>
      << setw(10) << "Quarter 2" << setw(10) << "Quarter 3"
       << setw(10) << "Quarter 4" << endl;
}
```

```
// getSales
//
// task:
            This procedure asks the user to input the number of years.
            For each of those years it asks the user to input the year
//
//
            (e.g. 2004), followed by the sales figures for each of the
            4 quarters of that year. That data is placed in a 2D array
//
//
   data in: a 2D array of integers
//
   data out: the total number of years
//
void getSales(SalesType table, int& numOfYears)
   cout << "Please input the number of years (1-" << MAXYEAR << ")" << endl;</pre>
   cin >> numOfYears;
   const int COLL = 5;
   int startYear = 2000;
   for (int row = 0; row < numOfYears; row++)</pre>
       for (int col = 0; col < COLL ; col++)</pre>
          if (col == 0)
              table[row][col] = startYear;
              startYear += 1;
          else{
             cout << endl << "Please input the amount of sales in year " <<</pre>
              startYear <<" quarter " << col << ":" << endl;
             cin >> table[row][col];
          }
      }
   }
}
// printSales
//
            This procedure prints out the information in the array
// data in: an array containing sales information
//
   data out: none
//
void printSales(SalesType table, int numOfYears)
{
   const int COLL = 5; // number of collums for a quarterly table
   cout << setw(10);
   for (int row = 0; row < numOfYears; row++)</pre>
       for (int col = 0; col < COLL; col++)</pre>
```

```
{
      cout << table[row][col] << setw(10);
    }
    cout << endl;
}</pre>
```