```
#include <iostream>
#include <iomanip>
#include "InventoryItem.h"
using namespace std;
int main()
    const int NUM ITEMS = 5;
    InventoryItem inventory[NUM ITEMS] = {
        InventoryItem("Hammer", 6.95, 12),
        InventoryItem("Wrench", 8.75, 20),
        InventoryItem("Pliers", 3.75, 10),
        InventoryItem("Ratchet", 7.95, 14),
        InventoryItem("Screwdriver", 2.50, 22)};
    cout << setw(14) << "Inventory Item"</pre>
         << setw(8) << "Cost" << setw(8)
         << setw(16) << "Units on Hand\n";</pre>
    for (int i = 0; i < NUM ITEMS; <math>i++)
        cout << setw(14) << inventory[i].getDescription();</pre>
        cout << setw(8) << inventory[i].getCost();</pre>
        cout << setw(7) << inventory[i].getUnits() << endl;</pre>
    int inventoryCount;
    for (int i = 0; i < NUM ITEMS; <math>i++)
        inventoryCount += inventory[i].getUnits();
```

```
cout << "The total inventory count is: " << inventoryCount</pre>
<< " units." << endl;</pre>
    double inventoryPrice;
    for (int i = 0; i < NUM ITEMS; <math>i++)
        inventoryPrice += (inventory[i].getUnits() *
inventory[i].getCost());
    cout << setprecision(5) << "The total inventory price is: $"</pre>
<< inventoryPrice << endl;</pre>
    double avgPrice = inventoryPrice / inventoryCount;
    cout << setprecision(3) << "The average inventory item price</pre>
is: $" << avgPrice << endl;</pre>
    return 0;
```

InventoryItem.h

```
// This class has overloaded constructors.
#ifndef INVENTORYITEM_H
#define INVENTORYITEM_H
#include <string>
using namespace std;

class InventoryItem
{
```

```
string description; // The item description
double cost;
int units;
InventoryItem()
   description = "";
  cost = 0.0;
  units = 0;
InventoryItem(string desc)
   description = desc;
   cost = 0.0;
   units = 0;
InventoryItem(string desc, double c, int u)
   description = desc;
   cost = c;
   units = u;
void setDescription(string);
```

```
void setCost(double);

void setUnits(int);

// Accessor functions
string getDescription() const;

double getCost() const;

int getUnits() const;

int getCount(InventoryItem[], int) const;

};
#endif
```

InventoryItem.cpp

```
#include "InventoryItem.h"

void InventoryItem::setDescription(string d)
{
    description = d;
}

void InventoryItem::setCost(double c)
{
    cost = c;
}

void InventoryItem::setUnits(int u)
{
    units = u;
}
```

```
string InventoryItem::getDescription() const
{
    return description;
}
double InventoryItem::getCost() const
{
    return cost;
}
int InventoryItem::getUnits() const
{
    return units;
}
```

Output:

Inventory Item	Cost	Units	on	Hand
Hammer	6.95	12		
Wrench	8.75	20		
Pliers	3.75	10		
Ratchet	7.95	14		
Screwdriver	2.5	22		
The total invent The total invent The average inve	ory pri	ce is:	\$4	62.2