```
//XboxConsole.h
/********************
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
*****
* CapstonePhase1
********
#ifndef XB0XC0NS0LE_H
#define XB0XC0NS0LE H
#include <iostream>
using namespace std;
class XboxConsole
private:
   static int s nextID;
   int m id;
   string m generation;
   string m submodel;
   string m chipset;
   int m_ramSize;
   int m storageRating;
   int m_quantity;
   double m price;
public:
   XboxConsole();
   XboxConsole(string, string, string, int, int, double);
   inline int getId() const { return m_id; }
   inline string getGeneration() const { return m_generation; }
   inline string getSubmodel() const { return m submodel; }
   inline string getChipset() const { return m_chipset; }
   inline int getRamSize() const { return m ramSize; }
```

```
inline int getStorageRating() const { return
m storageRating; }
    inline int getQuantity () const { return m_quantity; }
    inline double getPrice() const { return m_price; }
    inline void setGeneration(string generation) { m generation
= generation: }
    inline void setSubmodel(string submodel) { m submodel =
submodel; }
    inline void setChipset(string chipset) { m_chipset =
chipset; }
   inline void setRamSize(int ramSize) { m ramSize = ramSize; }
    inline void setStorageRating(int storageRating)
{ m_storageRating = storageRating; }
    inline void setQuantity(int quantity) { m quantity =
quantity; }
    inline void setPrice(double price) { m price = price; }
   bool operator==(const XboxConsole& other);
   ostream operator<<(const XboxConsole& other);</pre>
    friend ostream& operator<<(ostream& os, const XboxConsole&</pre>
x);
};
#endif /* XboxConsole h */
//XboxController.h
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
* CapstonePhase1
```

```
********
#ifndef XBOXCONTROLLER H
#define XBOXCONTROLLER H
#include <iostream>
using namespace std;
class XboxController
    private:
        static int s nextID;
        int m_id;
        string m generation;
        string m_layout;
        string m design;
        string m color;
        int m quantity;
        double m_price;
    public:
        XboxController();
        XboxController(string, string, string, int,
double);
        inline int getId() const { return m_id; }
        inline string getGeneration() const { return
m_generation; }
        inline string getLayout() const { return m_layout; }
        inline string getDesign() const { return m_design; }
        inline string getColor() const { return m_color; }
        inline int getQuantity () const { return m_quantity; }
inline double getPrice() const { return m_price; }
        inline void setGeneration(string generation)
{ m generation = generation; }
        inline void setLayout(string layout) { m layout =
layout; }
        inline void setDesign(string design) { m design =
design; }
        inline void setColor(string color) { m_color = color; }
        inline void setQuantity(int quantity) { m_quantity =
quantity; }
        inline void setPrice(double price) { m price = price; }
```

```
bool operator==(const XboxController& other);
       ostream operator<<(const XboxController& other);</pre>
       friend ostream& operator<<(ostream& os, const</pre>
XboxController& xc);
};
#endif /* XboxController h */
//XboxExclusive.h
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
*****
* CapstonePhase1
************************
******
#ifndef XB0XEXCLUSIVE_H
#define XB0XEXCLUSIVE H
#include <iostream>
using namespace std;
class XboxExclusive
private:
   static int s_nextID;
   int m_id;
   string m generation;
   string m_title;
   string m edition;
```

```
string m_genre;
    char m_esrbRating;
    int m_quantity;
    double m_price;
public:
    XboxExclusive();
    XboxExclusive(string, string, string, char, int,
double);
    inline int getId() const { return m_id; }
    inline string getGeneration() const { return m generation; }
    inline string getTitle() const { return m_title; }
    inline string getEdition() const { return m_edition; }
    inline string getGenre() const { return m genre; }
    inline char getEsrbRating() const { return m_esrbRating; }
    inline int getQuantity () const { return m_quantity; }
    inline double getPrice() const { return m_price; }
    inline void setGeneration(string generation) { m generation
= generation; }
    inline void setTitle(string title) { m title = title; }
    inline void setEdition(string edition) { m edition =
edition; }
    inline void setGenre(string genre) { m genre = genre; }
    inline void setEsrbRating(char esrbRating) { m_esrbRating =
esrbRating; }
    inline void setQuantity(int quantity) { m_quantity =
quantity; }
    inline void setPrice(double price) { m price = price; }
    bool operator==(const XboxExclusive& other);
    ostream operator<<(const XboxExclusive& other);</pre>
    friend ostream& operator<<(ostream& os, const XboxExclusive&</pre>
xe);
};
#endif /* XboxExclusive h */
```

```
//XboxConsoleList.h
/*********************
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
* CapstonePhase1
************************
******
#ifndef XB0XCONSOLELIST_H
#define XB0XC0NS0LELIST H
#include "XboxConsole.h"
#include <iostream>
class XboxConsoleList
private:
   int m count;
   const static int SIZE = 100;
   XboxConsole m list[SIZE];
public:
   XboxConsoleList() { m count = 0; }
   bool addXbox(XboxConsole xb);
   bool removeXbox(int id);
   bool updateConsole(int id, string generation, string
submodel, string chipset, int ramSize, int storageRating, int
quantity, double price);
   inline int getCount() const { return m count; }
   friend ostream& operator<<(ostream& os, const</pre>
XboxConsoleList& xb);
};
#endif /* XboxConsoleList h */
```

```
//XboxControllerList.h
/**********************
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
* CapstonePhase1
*******
#ifndef XB0XC0NTR0LLERLIST H
#define XB0XC0NTR0LLERLIST H
#include "XboxController.h"
#include <iostream>
class XboxControllerList
   private:
       int m count;
       const static int SIZE = 100;
       XboxController m list[SIZE];
   public:
       XboxControllerList() { m count = 0; }
       bool addXboxController(XboxController xc);
       bool removeXboxController(int id);
       bool updateController(int id, string generation, string
layout, string design, string color, int quantity, double
price);
       inline int getCount() const { return m_count; }
       friend ostream& operator<<(ostream& os, const
XboxControllerList& xc);
```

```
#endif /* XboxControllerList h */
//XboxExclusiveList.h
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
* CapstonePhase1
*****
#ifndef XBOXEXCLUSIVELIST_H
#define XBOXEXCLUSIVELIST_H
#include "XboxExclusive.h"
#include <iostream>
class XboxExclusiveList
private:
   int m count;
   const static int SIZE = 100;
   XboxExclusive m_list[SIZE];
public:
   XboxExclusiveList() { m count = 0; }
   bool addXboxExclusive(XboxExclusive xe);
   bool removeXboxExclusive(int id);
   bool updateExclusive(int id, string generation, string
title, string edition, string genre, char esrbRating, int
quantity, double price);
```

```
inline int getCount() const { return m_count; }
   friend ostream& operator<<(ostream& os, const</pre>
XboxExclusiveList& xe);
};
#endif /* XboxExclusiveList h */
//XboxConsole.cpp
/*********************
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
* CapstonePhase1
*************************
******
#include "XboxConsole.h"
#include <string>
int XboxConsole::s_nextID = 10000;
XboxConsole::XboxConsole()
   m id = s nextID;
   m generation = "One";
   m submodel = "X";
   m chipset = "Evolved Jaguar";
   m ramSize = 12;
   m_storageRating = 500;
   m_quantity = 1;
   m price = 400;
```

```
XboxConsole::XboxConsole(string generation, string submodel,
string chipset, int ramSize, int storageRating, int quantity,
double price)
   m id = s nextID++;
    m generation = generation;
    m submodel = submodel:
    m chipset = chipset;
   m ramSize = ramSize;
   m_storageRating = storageRating;
   m_quantity = quantity;
   m_price = price;
bool XboxConsole::operator==(const XboxConsole& other)
    return m_generation == other.m generation && m submodel ==
other.m_submodel && m_chipset == other.m_chipset && m_ramSize ==
other.m ramSize && m storageRating == other.m storageRating &&
m quantity == other.m quantity && m price == other.m price;
ostream& operator<<(ostream& os, const XboxConsole& x)</pre>
    os << "Xbox [ID#" << x.m id << ", Generation=" <<
x.m generation << ", Submodel=" << x.m submodel << ", Chipset="</pre>
<< x.m chipset
    << ", RAM Size=" << x.m_ramSize << " GB, Storage Rating=" <<</pre>
x.m_storageRating << " GB, Quantity=" << x.m_quantity</pre>
    << ", Price=$" << x.m_price << "]";</pre>
    return os:
//XboxController.cpp
/*********************
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
 * LAST MODIFIED: 11/30/18
```

```
******
* CapstonePhase1
#include "XboxController.h"
#include <string>
int XboxController::s_nextID = 10000;
XboxController::XboxController()
   m id = s nextID;
   m generation = "One";
   m layout = "Elite";
   m design = "Standard";
   m color = "Red";
   m quantity = 1;
   m price = 60;
XboxController::XboxController(string generation, string layout,
string design, string color, int quantity, double price)
   m id = s nextID++;
   m generation = generation;
   m layout = layout;
   m_design = design;
   m color = color;
   m quantity = quantity;
   m_price = price;
bool XboxController::operator==(const XboxController& other)
   return m generation == other.m generation && m layout ==
other.m layout && m design == other.m design && m color ==
other.m_color && m_quantity == other.m_quantity && m_price ==
other.m_price;
ostream& operator<<(ostream& os, const XboxController& xc)</pre>
```

```
os << "Xbox Controller[ID#" << xc.m_id << ", Generation=" <<
xc.m_generation << ", Layout=" << xc.m_layout << ", Design=" <<
xc.m_design
   << ", Color=" << xc.m color << ", Quantity=" <<
xc.m_quantity
   << ", Price=$" << xc.m_price << "]";
   return os;
//XboxExclusive.cpp
/********************
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
*****
* CapstonePhase1
******
#include "XboxExclusive.h"
#include <string>
int XboxExclusive::s nextID = 10000;
XboxExclusive::XboxExclusive()
   m_id = s_nextID;
   m_generation = "360";
   m title = "Halo 3";
   m_edition = "Standard";
   m genre = "Sci-Fi";
```

```
m esrbRating = 'M';
   m quantity = 1;
   m price = 60;
XboxExclusive::XboxExclusive(string generation, string title,
string edition, string genre, char esrbRating, int quantity,
double price)
   m id = s nextID++;
   m generation = generation;
   m title = title;
   m edition = edition;
   m_genre = genre;
   m esrbRating = esrbRating;
   m_quantity = quantity;
   m price = price;
bool XboxExclusive::operator==(const XboxExclusive& other)
   return m generation == other.m generation && m title ==
other.m title && m edition == other.m edition && m genre ==
other.m genre && m esrbRating == other.m esrbRating &&
m quantity == other.m quantity && m price == other.m price;
ostream& operator<<(ostream& os, const XboxExclusive& xe)</pre>
   os << "Xbox Exclusive[ID#" << xe.m id << ", Generation=" <<
xe.m generation << ", Title=" << xe.m title << ", Edition=" <<</pre>
xe.m edition
   << ", Genre=" << xe.m_genre << " , ESRB Rating=" <<</pre>
return os;
//XboxConsoleList.cpp
/********************
 * AUTHOR: Kyle Stephan Harris
```

```
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
******
* CapstonePhase1
#include "XboxConsoleList.h"
using namespace std;
bool XboxConsoleList::addXbox(XboxConsole xb)
   if(m_count >= SIZE - 1)
       return false:
   m list[m count++] = xb;
   return true;
bool XboxConsoleList::removeXbox(int id)
   for(int i = 0; i < m count; i++)</pre>
       if(m_list[i].getId() == id)
           for(int j = i; j < m_count; j++)</pre>
              m list[j] = m list[j+1];
           m_count--;
           return true;
   return false:
bool XboxConsoleList::updateConsole(int id, string generation,
string submodel, string chipset, int ramSize, int storageRating,
int quantity, double price)
```

```
for(int i = 0; i < m count; i++)</pre>
        if(id == m_list[i].getId())
            m list[i].setGeneration(generation);
            m list[i].setSubmodel(submodel);
            m list[i].setChipset(chipset);
            m list[i].setRamSize(ramSize);
            m list[i].setStorageRating(storageRating);
            m list[i].setQuantity(quantity);
            m list[i].setPrice(price);
            return true;
        }
    return false;
ostream& operator<<(ostream& os, const XboxConsoleList& xb)</pre>
   os << "~~Current Inventory of Xbox Consoles~~\n\n";
   for(int i = 0; i < xb.m_count; i++)</pre>
        os << xb.m list[i] << endl;
   return os;
//XboxControllerList.cpp
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
*****
* CapstonePhase1
```

```
************************
********
#include "XboxControllerList.h"
using namespace std;
bool XboxControllerList::addXboxController(XboxController xc)
    if(m count >= SIZE - 1)
       return false:
   m list[m count++] = xc;
   return true;
bool XboxControllerList::removeXboxController(int id)
    for(int i = 0; i < m count; i++)</pre>
       if(m list[i].qetId() == id)
           for(int j = i; j < m count; j++)</pre>
               m list[j] = m list[j+1];
           m_count--;
           return true;
       }
   return false;
bool XboxControllerList::updateController(int id, string
generation, string layout, string design, string color, int
quantity, double price)
   for(int i = 0; i < m count; i++)
       if(id == m list[i].getId())
           m_list[i].setGeneration(generation);
           m_list[i].setLayout(layout);
           m list[i].setDesign(design);
           m list[i].setColor(color);
           m list[i].setQuantity(quantity);
```

```
m_list[i].setPrice(price);
         return true:
      }
   return false:
ostream& operator<<(ostream& os, const XboxControllerList& xc)</pre>
   os << "~~Current Inventory of Xbox Controllers~~\n\n";
   for(int i = 0; i < xc.m count; i++)
      os << xc.m list[i] << endl;</pre>
   return os;
//XboxExclusiveList.cpp
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
************************
*****
* CapstonePhase1
************************
*******
#include "XboxExclusiveList.h"
using namespace std;
bool XboxExclusiveList::addXboxExclusive(XboxExclusive xe)
   if(m count >= SIZE - 1)
```

```
return false:
   m_list[m_count++] = xe;
    return true;
bool XboxExclusiveList::removeXboxExclusive(int id)
    for(int i = 0; i < m count; i++)
        if(m_list[i].getId() == id)
            for(int j = i; j < m count; j++)</pre>
                m list[j] = m list[j+1];
            m count--;
            return true;
        }
   return false;
bool XboxExclusiveList::updateExclusive(int id, string
generation, string title, string edition, string genre, char
esrbRating, int quantity, double price)
    for(int i = 0; i < m count; i++)
        if(id == m list[i].getId())
            m_list[i].setGeneration(generation);
            m list[i].setTitle(title);
            m list[i].setEdition(edition);
            m list[i].setGenre(genre);
            m list[i].setEsrbRating(esrbRating);
            m list[i].setQuantity(quantity);
            m list[i].setPrice(price);
            return true;
        }
    return false:
ostream& operator<<(ostream& os, const XboxExclusiveList& xe)</pre>
    os << "~~Current Inventory of Xbox Exclusives~~\n\n";
```

```
for(int i = 0; i < xe.m count; i++)</pre>
   {
       os << xe.m list[i] << endl;
   return os;
//Project05_CapstonePhase1 (main)
* AUTHOR: Kyle Stephan Harris
* COURSE: CS 150: C++ Programming 1
* SECTION: TTh 11:00-12:50
* PROJECT: 05
* LAST MODIFIED: 11/30/18
* CapstonePhase1
***********************
******
#include <cstdlib>
#include <iostream>
#include "XboxConsole.h"
#include "XboxConsoleList.h"
#include "XboxController.h"
#include "XboxControllerList.h"
#include "XboxExclusive.h"
#include "XboxExclusiveList.h"
int main(int argc, char * argv[])
   XboxConsoleList x1;
   string generation, submodel, chipset;
   int id, ramSize, storageRating, quantity;
```

```
double price;
   int choice = 0;
   int mainChoice = 0;
   //string generation,
   string layout, design, color;
   //double price;
   //int id, quantity;
   XboxControllerList controllerList;
   //string generation,
   string title, edition, genre;
   char esrbRating;
   //int id, quantity;
   //double price;
   XboxExclusiveList exclusiveList;
   {
       cout <<
********" << endl;
       cout << "**
*" << endl;
       cout << "**
                                                WELCOME TO THE
*" << endl;
       cout << "**
                                              XBOX INVENTORY APP
*" << endl;
       cout << "**
<*" << endl;</pre>
       cout <<
*******" << endl;
       cout << "** Please make a choice from the following</pre>
                            **" << endl;
       cout << "** 1) Xbox Console Inventory</pre>
k*" << endl;</pre>
        cout << "** 2)
k*" << endl;</pre>
       cout << "** 3) Xbox Exclusive Inventory</pre>
<*" << endl;</pre>
        cout << "** 4) Exit</pre>
*" << endl;
       cout <<
******** << endl;
       cout << ">> ":
```

```
cin >> mainChoice;
        cin.ignore(INT_MAX, '\n');
        switch(mainChoice)
             case 1:
                 {
                      cout <<
<********" << endl;</pre>
                      cout << "** Please make a choice from the</pre>
                                        **" << endl;
                      cout << "** 1)
                                       Add a new Xbox to Inventory
**" << endl;
                      cout << "** 2) Remove an Xbox from</pre>
                                               **" << endl;
Inventory
                      cout << "** 3)
                                       Update an existing Xbox
                                          **" << endl;
Console
                      cout << "** 4)
                                       Display all Xbox Consoles in
                                     **" << endl:
Inventory
                      cout << "** 5) Exit
**" << endl;
                      cout <<
*********
<< endl;</pre>
                      cout << ">> ":
                      cin >> choice;
                      cin.ignore(INT_MAX, '\n');
                      switch (choice)
                      {
                          case 1:
                          {
                               cout << "Enter Xbox Generation: ";</pre>
                              getline(cin, generation);
                               cout << "Enter Submodel: ";</pre>
                               getline(cin, submodel);
                               cout << "Enter Chipset: ";</pre>
                               getline(cin, chipset);
                               cout << "Enter RAM Size: ";</pre>
                               cin >> ramSize;
                               cout << "Enter Storage Rating: ";</pre>
                               cin >> storageRating;
                               cout << "Enter Quantity: ";</pre>
                               cin >> quantity;
                               cout << "Enter Price $";</pre>
```

```
cin >> price;
                                XboxConsole xb(generation, submodel,
chipset, ramSize, storageRating, quantity, price);
                               if(x1.addXbox(xb))
                                    cout << "~~Xbox added</pre>
successfully!~~~" << endl;</pre>
                                    cout << "Inventory full, please</pre>
                              << endl;
                                cout << endl;</pre>
                               break;
                           }
                           case 2:
                               if(x1.getCount() == 0)
                                    cout << "There is nothing to</pre>
remove!\n\n";
                                    cout << x1 << endl;</pre>
                                    cout << "\nWhich ID# would you</pre>
like to remove? (or -1 to cancel) >> ";
                                    cin >> id;
                                    if(x1.removeXbox(id))
                                         cout << "~~Xbox removed</pre>
successfully!~~~" << endl;</pre>
                                        cout << "That ID does not</pre>
exist." << endl:
                                }
                               break;
```

```
case 3:
                          {
                              cout << x1 << endl;</pre>
                              cout << "\nWhich ID# would you like</pre>
to update? (or -1 to cancel) >> ";
                              cin >> id;
                              if (id == -1) break;
                              cin.ignore(INT_MAX, '\n');
                              cout << "Enter updated Xbox</pre>
Generation: ";
                              getline(cin, generation);
                              cout << "Enter updated Submodel: ";</pre>
                              getline(cin, submodel);
                              cout << "Enter updated Chipset: ";</pre>
                              getline(cin, chipset);
                              cout << "Enter updated RAM Size: ";</pre>
                              cin >> ramSize:
                              cout << "Enter updated Storage</pre>
Rating: ";
                              cin >> storageRating;
                              cout << "Enter updated Quantity: ";</pre>
                              cin >> quantity;
                              cout << "Enter updated Price $";</pre>
                              cin >> price;
                              if(x1.updateConsole(id, generation,
submodel, chipset, ramSize, storageRating, quantity, price))
                                   cout << "\n~~Xbox Console</pre>
Update Successful~~~\n";
                              {
                                   cout << "\n~~Failed to Update</pre>
Xbox Console~~~\n";
                              }
                          break;
                          }
                          case 4:
                              if(x1.getCount() == 0)
                                   cout << "~~Current Inventory of
Xbox Consoles~~\n\nEmpty\n\n";
```

```
cout << x1 << endl;</pre>
                              break;
                         case 5:
                             break:
                     }
                 }while (choice != 5);
            break;
            case 2:
                 int userChoice = 0;
                do {
                     cout <<
********" << endl:</pre>
                     cout << "** Please make a choice from the</pre>
                                       **" << endl;
following options:
                     cout << "** 1)
                                    **" << endl;
                     cout << "** 2) Remove a Xbox Controller</pre>
                                        **" << endl;
                     cout << "** 3)
                                      Update an existing Xbox
                                         **" << endl;
Controller
                     cout << "** 4) Display all Xbox Controllers</pre>
                                    **" << endl;
                     cout << "** 5) Exit
**" << endl;
                     cout <<
******* << endl;
                     cout << ">> ";
                     cin >> userChoice;
                     cin.ignore(INT_MAX, '\n');
                     switch (userChoice)
                     {
                         case 1:
```

```
cout << "Enter Xbox Generation: ";</pre>
                               getline(cin, generation);
                               cout << "Enter Layout: ";</pre>
                               getline(cin, layout);
                               cout << "Enter Design: ";</pre>
                               getline(cin, design);
                               cout << "Enter Color: ";</pre>
                               getline(cin, color);
                               cout << "Enter Quantity: ";</pre>
                               cin >> quantity;
                               cout << "Enter Price $";</pre>
                               cin >> price;
                              XboxController xc(generation,
layout, design, color, quantity, price);
(controllerList.addXboxController(xc))
                                   cout << "~~Xbox Controller</pre>
added successfully!~~~" << endl;
                                   cout << "~~Failed to add Xbox
Controller to Inventory~~~" << endl;
                               cout << endl;</pre>
                              break;
                          }
                          case 2:
                               cout << controllerList << endl;</pre>
                               cout << "\nWhich ID# would you like</pre>
to remove? (or -1 to cancel) >> ";
                               cin >> id;
                               if (id == -1) break;
(controllerList.removeXboxController(id))
                                   cout << "~~Xbox Controller</pre>
removed successfully!~~~" << endl;
                                   cout << "~~Failed to remove
Xbox Controller from Inventory~~~" << endl;</pre>
                              break:
                          }
                          case 3:
                               cout << controllerList << endl;</pre>
```

```
cout << "\nWhich ID# would you like</pre>
to update? (or -1 to cancel) >> ";
                              cin >> id;
                              if (id == -1) break;
                              cin.ignore(INT_MAX, '\n');
                              cout << "Enter Updated Xbox</pre>
Generation: ":
                              getline(cin, generation);
                              cout << "Enter Updated Layout: ";</pre>
                              getline(cin, layout);
                              cout << "Enter Updated Design: ";</pre>
                              getline(cin, design);
                              cout << "Enter Updated Color: ";</pre>
                              getline(cin, color);
                              cout << "Enter Updated Quantity: ";</pre>
                              cin >> quantity;
                              cout << "Enter Updated Price $";</pre>
                              cin >> price;
if(controllerList.updateController(id, generation, layout,
design, color, quantity, price))
                                   cout << "\n~~Xbox Controller</pre>
Update Successful~~~\n";
                              }
                              {
                                   cout << "\n~~Failed to Update</pre>
Xbox Controller~~~\n";
                              }
                              break:
                          }
                          case 4:
                              if(controllerList.getCount() == 0)
                                   cout << "~~Current Inventory of
Xbox Controllers~~\n\nEmpty\n\n";
                              cout << controllerList << endl;</pre>
                              break:
                          }
                          case 5:
                              break;
                          default:
```

```
cout << "Choice not recognized,</pre>
please drop in again." << endl;</pre>
                 } while (userChoice != 5);
                 cout << endl;</pre>
             break:
             case 3:
                 int userChoice = 0;
                 do {
                      cout <<
<********" << endl;</pre>
                      cout << "** Please make a choice from the</pre>
                                        **" << endl:
following options:
                      cout << "** 1)
                                       Add a new Xbox Exclusive to
                                       **" << endl;
Inventory
                      cout << "** 2)
                                          **" << endl;
from Inventory
                      cout << "** 3)
                                           **" << endl;
Exclusive
                      cout << "** 4)
                                      **" << endl;
in Inventory
                      cout << "** 5) Exit
**" << endl;
                      cout <<
<********" << endl;</pre>
                      cout << ">> ";
                      cin >> userChoice;
                      cin.ignore(INT_MAX, '\n');
                      switch (userChoice)
                      {
                          case 1:
                               cout << "Enter Xbox Generation: ";</pre>
                               getline(cin, generation);
                               cout << "Enter Title: ";</pre>
                               getline(cin, title);
                               cout << "Enter Edition: ";</pre>
                               getline(cin, edition);
```

```
cout << "Enter Genre: ";</pre>
                               getline(cin, genre);
                               cout << "Enter ESRB Rating: ";</pre>
                               cin >> esrbRating;
                               cout << "Enter Ouantity: ";</pre>
                               cin >> quantity;
                               cout << "Enter Price $";</pre>
                               cin >> price;
                              XboxExclusive xe(generation, title,
<u>edition, genre, e</u>srbRating, quantity, price);
(exclusiveList.addXboxExclusive(xe))
                                   cout << "~~Xbox exclusive added
successfullv!~~~" << endl:</pre>
                                   cout << "~~Failed to add xbox</pre>
exclusive to Inventory ~~ " << endl;
                               cout << endl;
                              break;
                          }
                          case 2:
                               cout << exclusiveList << endl;</pre>
                               cout << "\nWhich ID# would you like</pre>
to remove? (or -1 to cancel) >> ";
                               cin >> id;
                               if (id == -1) break;
(exclusiveList.removeXboxExclusive(id))
                                   cout << "~~Xbox exclusive
removed successfully!~~~" << endl;
                                   cout << "~~Failed to remove
xbox exclusive from Inventory~~~" << endl;</pre>
                              break:
                          case 3:
                          {
                               cout << exclusiveList << endl;</pre>
                               cout << "\nWhich ID# would you like</pre>
to update? (or -1 to cancel) >> ";
                               cin >> id:
                               if (id == -1) break;
                               cin.ignore(INT_MAX, '\n');
                               cout << "Enter updated Generation:</pre>
```

```
getline(cin, generation);
                               cout << "Enter updated Title: ";</pre>
                              getline(cin, title);
                              cout << "Enter updated Edition: ";</pre>
                              getline(cin, edition);
                              cout << "Enter updated Genre: ";</pre>
                              getline(cin, genre);
                              cout << "Enter updated ESRB Rating:</pre>
 ;
                              cin >> esrbRating;
                              cout << "Enter updated Quantity: ";</pre>
                              cin >> quantity;
                              cout << "Enter updated Price $";</pre>
                              cin >> price;
                               if(exclusiveList.updateExclusive(id,
generation, title, edition, genre, esrbRating, quantity, price))
                                   cout << "\n~~~Xbox Exclusive
Update Successful~~~\n";
                                   cout << "\n~~Failed to Update</pre>
Xbox Exclusive~~~\n";
                              break;
                          }
                          case 4:
                              if(exclusiveList.getCount() == 0)
                                   cout << "~~Current Inventory of
Xbox Exclusives~~\n\nEmpty\n\n";
                              cout << exclusiveList << endl;</pre>
                              break;
                          }
                          case 5:
                              break:
                          default:
                              cout << "Choice not recognized,</pre>
please drop in again." << endl;</pre>
```