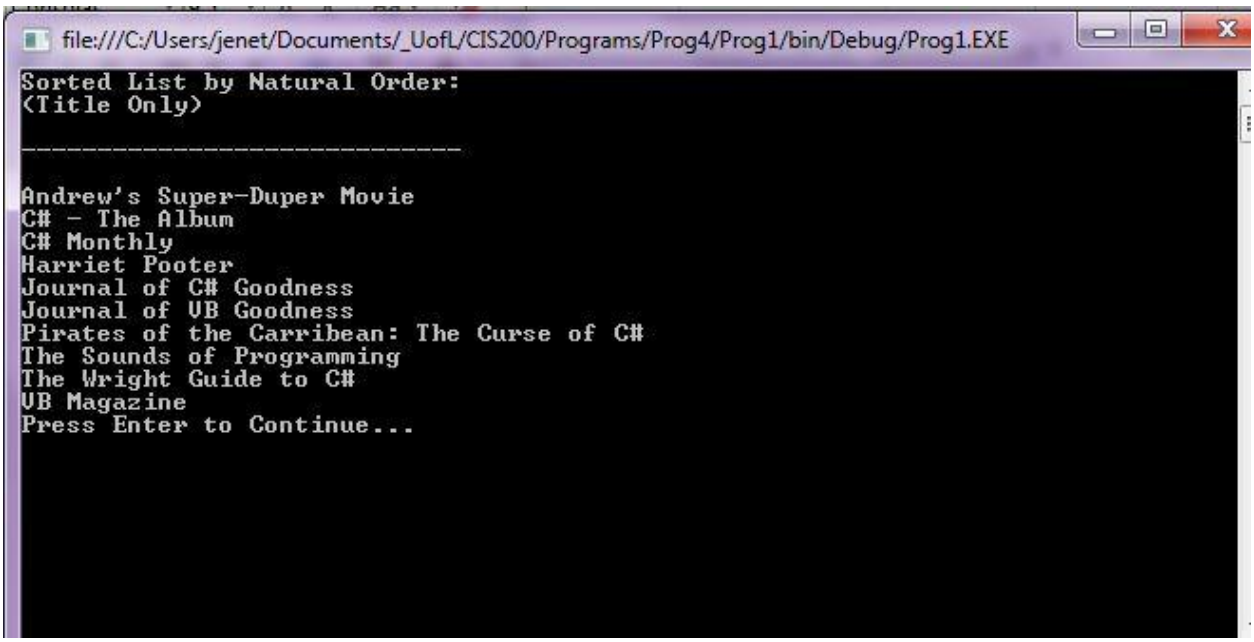
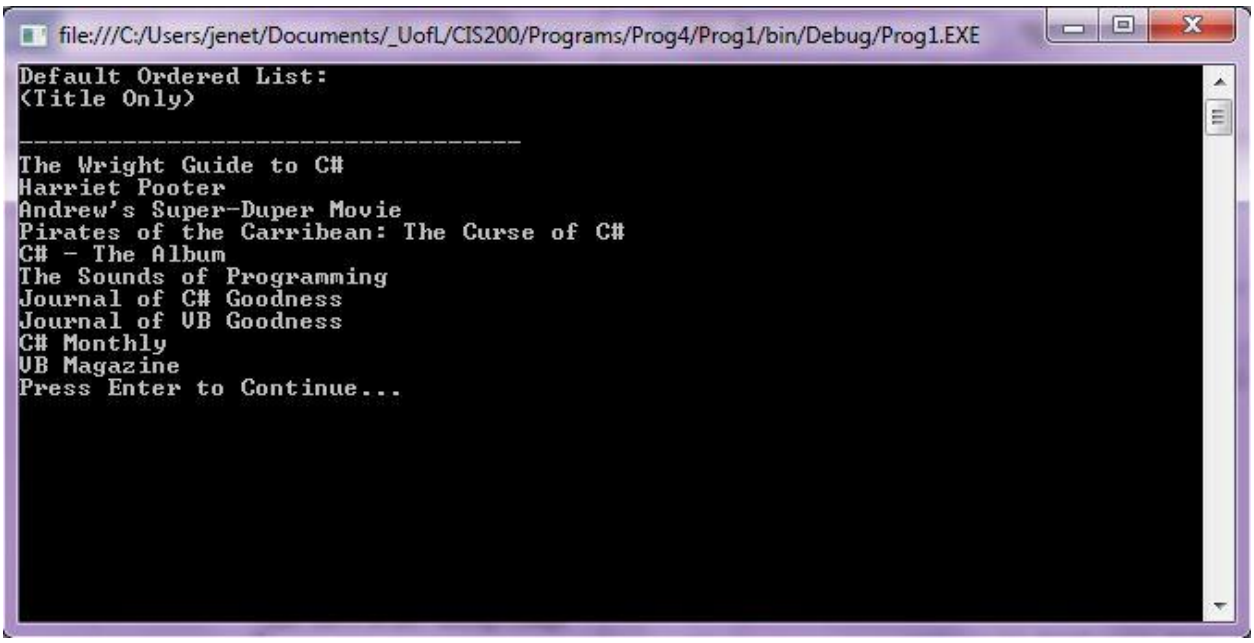
```
// Jenet Baribeau
// CIS 200-01
// 11 April 2016
//Program 4

TYPE SORT ORDER using LINQ

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace LibraryItems
{
    class TypeSortOrder : IComparer<LibraryItem>
    {

        public int Compare(LibraryItem t1, LibraryItem t2)
        {
            LibraryItem firstItem = (LibraryItem)t1;
            LibraryItem secondItem = (LibraryItem)t2;

            if (t1 == t2)
                return 0;
            if (t2 == null)
                return -1;
            if (t1 == null)
                return 1;

            return t1.GetType().ToString().CompareTo(t2.GetType().ToString());
```



REVERSE ORDER SORT

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace LibraryItems
{

    //Precondition: None
    //Postcondition: Reverses the natural time order
    //                When i1 < i2, method returns positive #
    //                When i1 == i2, method returns zero
    //                When i1 > i2, method returns negative #
    class ReverseOrderSort : IComparer<LibraryItem>
    {
        public int Compare(LibraryItem i1, LibraryItem i2)
        {

            LibraryItem firstItem = (LibraryItem)i1;
            LibraryItem secondItem = (LibraryItem)i2;
            if (i1.CopyrightYear < i2.CopyrightYear)
                return  1;
            if (i1.CopyrightYear > i2.CopyrightYear)
                return -1;
            else
                return 0;

        }
    }
```




```
}
```