

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

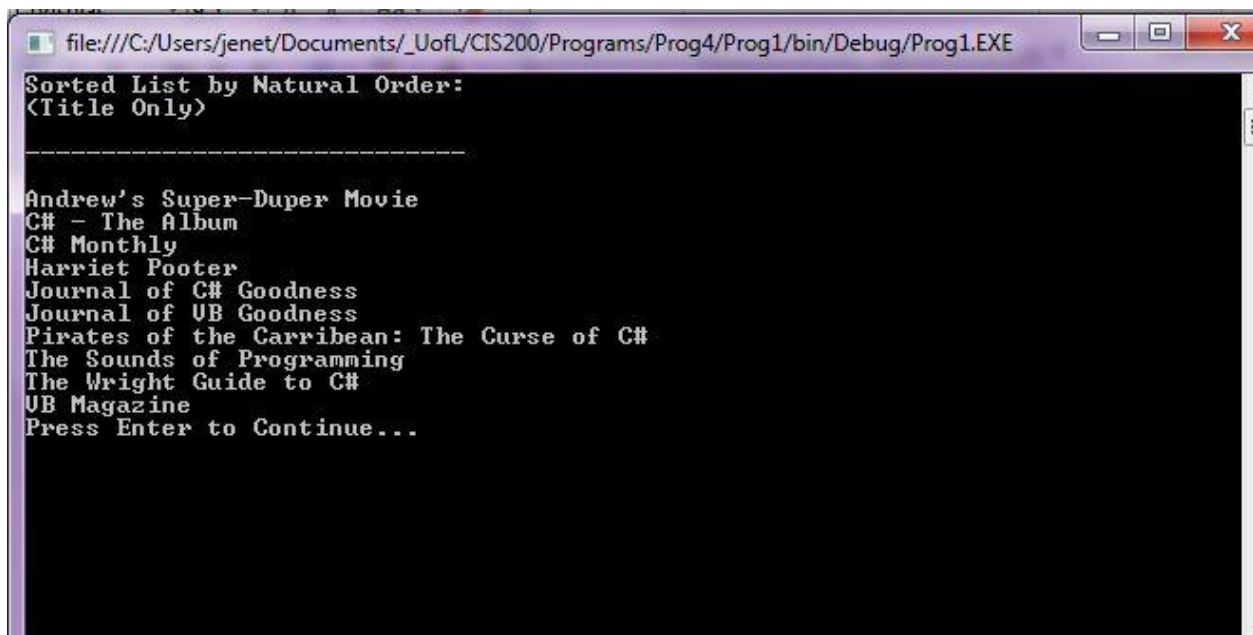
TYPE SORT ORDER using LINQ

```
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());
        }
    }
}
```



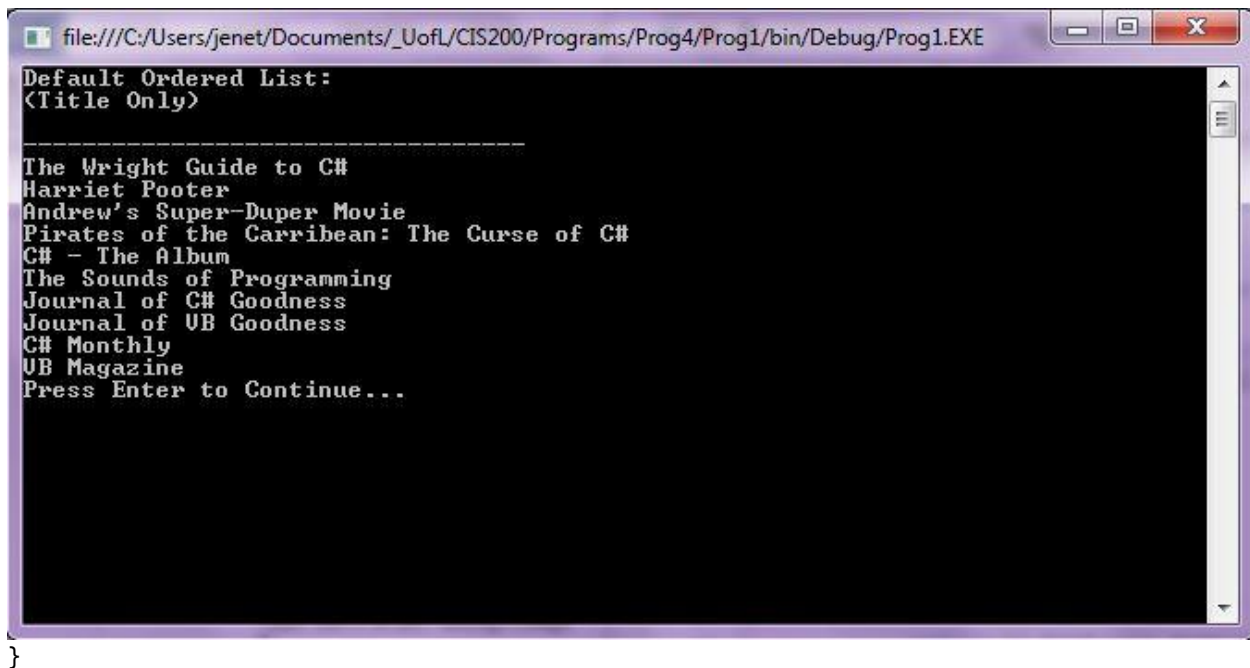
```
file:///C:/Users/jenet/Documents/_UofL/CIS200/Programs/Prog4/Prog1/bin/Debug/Prog1.EXE
Sorted List by Natural Order:
(Title Only)

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Andrew's Super-Duper Movie
C# - The Album
C# Monthly
Harriet Pooter
Journal of C# Goodness
Journal of VB Goodness
Pirates of the Caribbean: The Curse of C#
The Sounds of Programming
The Wright Guide to C#
VB Magazine
Press Enter to Continue...
```

## 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;
        }
    }
}
```



```
file:///C:/Users/jenet/Documents/_UofL/CIS200/Programs/Prog4/Prog1/bin/Debug/Prog1.EXE
Default Ordered List:
<Title Only>
-----
The Wright Guide to C#
Harriet Pooter
Andrew's Super-Duper Movie
Pirates of the Carribean: The Curse of C#
C# - The Album
The Sounds of Programming
Journal of C# Goodness
Journal of VB Goodness
C# Monthly
VB Magazine
Press Enter to Continue...
```

