

Homework Assignment #1

Due Monday, October 18th

Write a C# console application that defines a Catalog object, which contains a collection of Book objects. You must populate the catalog with data, and then serialize it as an XML document using the System.Xml.Serialization.XmlSerializer class. The resulting document should look just like the one below.

You will need to turn in:

- All of the source files(including project files) to build your console application

Criteria for success:

I'll be reading your source code, then running the app, and comparing the result with the output below. Your output needs to match.

Please zip up the project files and mail the completed assignment to webservices@cauldwell.net with a subject line beginning with **[WSA – assignment 1]**.

```
<?xml version="1.0"?>
<catalog>
  <book id="bk101">
    <author>Gambardella, Matthew</author>
    <title>XML Developer's Guide</title>
    <genre>Computer</genre>
    <price>44.95</price>
    <publish_date>2000-10-01</publish_date>
    <description>An in-depth look at creating applications
    with XML.</description>
  </book>
  <book id="bk102">
    <author>Ralls, Kim</author>
    <title>Midnight Rain</title>
    <genre>Fantasy</genre>
    <price>5.95</price>
    <publish_date>2000-12-16</publish_date>
    <description>A former architect battles corporate zombies,
    an evil sorceress, and her own childhood to become queen
    of the world.</description>
  </book>
  <book id="bk103">
    <author>Corets, Eva</author>
    <title>Maeve Ascendant</title>
    <genre>Fantasy</genre>
    <price>5.95</price>
```

```
<publish_date>2000-11-17</publish_date>
<description>After the collapse of a nanotechnology
society in England, the young survivors lay the
foundation for a new society.</description>
</book>
<book id="bk104">
  <author>Corets, Eva</author>
  <title>Oberon's Legacy</title>
  <genre>Fantasy</genre>
  <price>5.95</price>
  <publish_date>2001-03-10</publish_date>
  <description>In post-apocalypse England, the mysterious
agent known only as Oberon helps to create a new life
for the inhabitants of London. Sequel to Maeve
Ascendant.</description>
</book>
<book id="bk105">
  <author>Corets, Eva</author>
  <title>The Sundered Grail</title>
  <genre>Fantasy</genre>
  <price>5.95</price>
  <publish_date>2001-09-10</publish_date>
  <description>The two daughters of Maeve, half-sisters,
battle one another for control of England. Sequel to
Oberon's Legacy.</description>
</book>
<book id="bk106">
  <author>Randall, Cynthia</author>
  <title>Lover Birds</title>
  <genre>Romance</genre>
  <price>4.95</price>
  <publish_date>2000-09-02</publish_date>
  <description>When Carla meets Paul at an ornithology
conference, tempers fly as feathers get ruffled.</description>
</book>
<book id="bk107">
  <author>Thurman, Paula</author>
  <title>Splish Splash</title>
  <genre>Romance</genre>
  <price>4.95</price>
  <publish_date>2000-11-02</publish_date>
  <description>A deep sea diver finds true love twenty
thousand leagues beneath the sea.</description>
</book>
<book id="bk108">
```

```
<author>Knorr, Stefan</author>
<title>Creepy Crawlies</title>
<genre>Horror</genre>
<price>4.95</price>
<publish_date>2000-12-06</publish_date>
<description>An anthology of horror stories about roaches,
centipedes, scorpions and other insects.</description>
</book>
<book id="bk109">
  <author>Kress, Peter</author>
  <title>Paradox Lost</title>
  <genre>Science Fiction</genre>
  <price>6.95</price>
  <publish_date>2000-11-02</publish_date>
  <description>After an inadvertant trip through a Heisenberg
  Uncertainty Device, James Salway discovers the problems
  of being quantum.</description>
</book>
<book id="bk110">
  <author>O'Brien, Tim</author>
  <title>Microsoft .NET: The Programming Bible</title>
  <genre>Computer</genre>
  <price>36.95</price>
  <publish_date>2000-12-09</publish_date>
  <description>Microsoft's .NET initiative is explored in
  detail in this deep programmer's reference.</description>
</book>
<book id="bk111">
  <author>O'Brien, Tim</author>
  <title>MSXML3: A Comprehensive Guide</title>
  <genre>Computer</genre>
  <price>36.95</price>
  <publish_date>2000-12-01</publish_date>
  <description>The Microsoft MSXML3 parser is covered in
  detail, with attention to XML DOM interfaces, XSLT processing,
  SAX and more.</description>
</book>
<book id="bk112">
  <author>Galos, Mike</author>
  <title>Visual Studio 7: A Comprehensive Guide</title>
  <genre>Computer</genre>
  <price>49.95</price>
  <publish_date>2001-04-16</publish_date>
  <description>Microsoft Visual Studio 7 is explored in depth,
  looking at how Visual Basic, Visual C++, C#, and ASP+ are
```

integrated into a comprehensive development
environment.</description>
</book>
</catalog>