

Indexing with an String Index

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/*
A Programmer's Introduction to C# (Second Edition)
by Eric Gunnerson

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*/

// 19 – Indexers and EnumeratorsIndexing with an String Index
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using System;
using System.Collections;
class DataValue
{
public DataValue(string name, object data)
{
this.name = name;
this.data = data;
}
public string Name
{
get
{
return(name);
}
set
{
name = value;
}
}
public object Data
{
get
{
```

```
return(data);
}
set
{
data = value;
}
}
string name;
object data;
}
class DataRow
{
public DataRow()
{
row = new ArrayList();
}

public void Load()
{
/* load code here */
row.Add(new DataValue("Id", 5551212));
row.Add(new DataValue("Name", "Fred"));
row.Add(new DataValue("Salary", 2355.23m));
}

public DataValue this[int column]
{
get
{
return( (DataValue) row[column - 1]);
}
set
{
row[column - 1] = value;
}
}
int FindColumn(string name)
```

```
{
for (int index = 0; index < row.Count; index++) { DataValue
dataValue = (DataValue) row[index]; if (dataValue.Name ==
name) return(index); } return(-1); } public DataValue
this[string name] { get { return( (DataValue)
this[FindColumn(name)]); } set { this[FindColumn(name)] =
value; } } ArrayList row; } public class
IndexingwithanStringIndex { public static void Main() {
DataRow row = new DataRow(); row.Load(); DataValue val =
row["Id"]; Console.WriteLine("Id: {0}", val.Data);
Console.WriteLine("Salary: {0}", row["Salary"].Data);
row["Name"].Data = "Barney"; // set the name
Console.WriteLine("Name: {0}", row["Name"].Data); } }
[/csharp]
```