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// example 12 - a complete program using a class
// The example is for a class that represents a box
using System;
class Program
   static void Main()
       // create a Box object and use setters
       Box hatBox = new Box();
       hatBox.SetHeight(5);
       hatBox.SetWidth(2);
       hatBox.SetLength(3);
       // use getters
       Console.WriteLine("The dimensions of the hat box are: \{0\} x \{1\} x \{2\}",
           hatBox.GetHeight(), hatBox.GetWidth(), hatBox.GetLength());
       // use the data manipulation method
       Console.WriteLine("The volume of this box is {0}", hatBox.CalcVolume());
       Console.ReadLine();
    }
// Box class definition
// represents a Box of some kind
class Box
   private int width;
       private int height;
       private int length;
    // ----- Constructors -----
   // the default constructor
   // purpose: initialize all values to zero
   // Parameters: none
   // Returns: none
   public Box()
    {
       length = 0;
       height = 0;
       width = 0;
    }
   // the parameterized constructor
    // purpose: initialize all values
   // Parameters: the width (p1), height (p2) and width (p3) of the box
   // Returns: none
   public Box( int p1, int p2, int p3)
           {
       length = p1;
       height = p2;
       width = p3;
    }
```

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//----- Getters ------
// the GetWidth method
// purpose: getter for width
// Parameters: none
// Returns: the width as an integer
public int GetWidth( )
   return width;
// the GetHeight method
// purpose: getter for height
// Parameters: none
// Returns: the height as an integer
public int GetHeight( )
   return height;
// the GetLength method
// purpose: getter for length
// Parameters: none
// Returns: the length as an integer
public int GetLength( )
   return length;
//----- Setters ------
// the SetWidth method
// purpose: setter for width
// Parameters: an integer p1
// Returns: none
public void SetWidth(int p1)
{
   width = p1;
// the SetHeight method
// purpose: setter for height
// Parameters: an integer p1
// Returns: none
public void SetHeight(int p1)
   height = p1;
}
// the SetLength method
// purpose: setter for length
// Parameters: an integer p1
// Returns: none
public void SetLength(int p1 )
{
   length = p1;
```