# 2024-07-26---cSharp_DesignPattern_II

```csharp
using DesignPattern_II;
using static System.Console;

namespace DesignPattern_II
{

    // 3 usages    1 inheritor
    public class Rectangle

    // 1 usage
    public class Square : Rectangle{...}
    }
    public class Demo
    {

        // 2 usages
        private static int Area(Rectangle r) => r.Width * r.Height; // Calculates the area of the specified rectangle.




        private static void Main(string[] args)                     // Main entry point of the application.
        {
            var rcRectangle = new Rectangle(width: 2, height: 3);
            WriteLine($"{rcRectangle} has area {Area(rcRectangle)}");

            var sqSquare = new Square(side: 4);                      // Create a Square with side length 4
            WriteLine($"{sqSquare} has area {Area(sqSquare)}");
        }
    }
}
```

```
Run    DesignPattern_II

Width: 2, Height: 3  has area 6
Width: 4, Height: 4  has area 16


Process finished with exit code 0.
```

# cSharp