```
1 //using is a directive
 2 //System is a name space
 3 //name space is a collection of features that our needs to run
 4 using System;
 5 using System.Collections.Generic;
 6 //public means accessible anywhere
 7 //partial means this class is split over multiple files
 8 //class is a keyword and think of it as the outermost level of grouping
 9 //:System.Web.UI.Page means our page inherits the features of a Page
10 public partial class _Default : System.Web.UI.Page
11 {
12
       protected void Button1_Click(object sender, EventArgs e)
13
       {
           sampLabel.Text = "";//clear label every time
14
           Quad sqr = new Square("John", 4);//make a square
15
16
           Quad rect = new Rectangle("Bob", 2, 5);//make a rectangle
           Quad rect2 = new Rectangle("Jerry", 4, 5);//make another rectangle
17
           Quad sqr1 = new Square("Tom", 5);//make another square
18
19
           //stick all these shapes into a list of quads
20
           List<Quad> lst = new List<Quad>(new Quad[] { sqr, rect, rect2,sqr1 });
21
           lst.Sort();//sort the list
22
           foreach (Quad q in lst)
23
           {
24
               if (q is Square) //if it's asquare
25
26
                   //down cast to a square, and call Perimeter on it
27
                   sampLabel.Text +="<br>"+((Square)q).Perimeter();
28
               }
               else
29
               {
30
31
                   //if it's a rectangle, down cost to a rectangle, and call Perimeter
                    sampLabel.Text += "<br>"+((Rectangle)q).Perimeter();
32
33
34
               }
35
           }
36
       }
37 }
38
39
```

40