```
1 using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Text;
 5 using System.Threading.Tasks;
 6 using System.ComponentModel;
 7 using System.Windows.Forms;
 8
9
10
11 namespace knapsackplanner
12 {
       class Container
13
14
       {
15
16
           17
           //INSTANCE VARIABLES
18
           private string _name;
19
           private double _maxWeight;
           private double _maxVolume;
21
           private double _totalWeight;
           private double _totalVolume;
22
23
           private BindingList<Item> itemsContained = new BindingList<Item>();
24
25
           public Container(string name, double maxWeight, double maxVolume)
26
27
               _name = name;
28
               _maxWeight = maxWeight;
29
               _maxVolume = maxVolume;
           }
30
31
32
33
34
           public string Name
35
           {
36
               get { return _name; }
37
               set { _name = value; }
38
           }
39
           public double MaxWeight
40
41
               get { return maxWeight; }
42
               set { _maxWeight = value; }
43
           }
44
           public double MaxVolume
45
46
               get { return _maxVolume; }
47
               set { _maxVolume = value; }
48
           }
49
           public double TotalWeight
50
               get { return _totalWeight; }
51
52
           }
53
           public double TotalVolume
54
           {
55
               get { return _totalVolume; }
56
           }
```

```
...lec_Bryant\knapsackplanner\knapsackplanner\Container.cs
public Bindinglist
58
            {
59
                get { return _itemsContained; }
60
                 set { _itemsContained = value; }
61
            }
62
            public void Bind(DataGridView grid)
63
                grid.DataSource = _itemsContained;
64
            }
65
66
            public void Update()
67
                 _totalWeight = 0;
68
                 _totalVolume = 0;
69
70
                foreach (Item item in _itemsContained)
71
                     _totalWeight += item.Weight;
72
                     _totalVolume += item.Volume;
73
74
                 }
75
            }
76
        }
77
   }
78
```