

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Mid_sem_test
8 {
9     public class Folder:Thing
10    {
11        private List<Thing> _contents;
12
13        public Folder(string name) : base(name)
14        {
15            _contents = new List<Thing>();
16        }
17
18        public void Add(Thing toAdd)
19        {
20            _contents.Add(toAdd);
21        }
22
23        public override int Size()
24        {
25            int cnt = 0;
26            foreach (Thing t in _contents)
27            {
28                cnt += t.Size();
29            }
30            return cnt;
31        }
32
33        public override void Print()
34        {
35            if(_contents.Count == 0)
36            {
37                Console.WriteLine($"The Folder: '{this.Name}' is empty!");
38            }
39            else
40            {
41                Console.WriteLine($"The Folder: '{this.Name}' contains
42                                     {_contents.Count} files totalling {Size()} bytes:");
43            }
44            foreach (Thing f in _contents)
45            {
46                f.Print();
47            }
48        }
49    }
50 }
```

49 }

50 }

51