```
1 using Iteration3;
 2
 3 namespace UTbag
 4 {
 5
       public class Tests
 6
 7
           Bag b1;
 8
           Bag b2;
            Item shovel = new Item(new string[] { "shovel" }, "a shovel", "This →
 9
               is a shovel");
           Item sword = new Item(new string[] { "sword" }, "a sword", "This is →
10
              a sword");
           Item book = new Item(new string[] { "book" }, "a book", "This is a >
11
              small book");
            Item pc = new Item(new string[] { "pc" }, "a pc", "This is a small →
12
              computer");
13
14
            [SetUp]
15
            public void Setup()
            ş
16
                b1 = new Bag(new string[] { "bag" }, "a bag", "This is a bag");
17
                b2 = new Bag(new string[] { "bag1" }, "a bag1", "This is a
18
                  bag1");
                b1.Inventory.Put(shovel);
19
20
                b1.Inventory.Put(sword);
21
                b2.Inventory.Put(book);
                b2.Inventory.Put(pc);
22
23
           }
24
            [Test]
25
            public void TestBagLocatesItems()
26
27
            {
28
                Assert.IsTrue(b1.Inventory.HasItem("sword"));
                Assert.IsTrue(b1.Inventory.HasItem("shovel"));
29
30
31
32
                Assert.IsTrue(b1.Locate(sword.FirstID) == sword);
33
                Assert.IsTrue(b1.Locate(shovel.FirstID) == shovel);
34
            }
35
            [Test]
36
37
           public void TestBagLocateItself()
38
39
                Assert.IsTrue(b1.Locate(b1.FirstID) == b1);
40
                Assert.IsTrue(b1.Locate("bag") == b1);
            }
41
42
43
           [Test]
44
            public void TestBagLocatesNothing()
```

```
...sks\Tasks\Pass\5.2\file\Iteration3\UTbag\UnitTest1.cs
                                                                                  2
45
                Assert.IsTrue(b2.Locate(shovel.FirstID) == null);
46
47
            }
48
49
            [Test]
            public void TestBagFullDescription()
50
51
            {
                Assert.AreEqual(b1.FullDescription, "a bag, containing:\na
52
                  shovel (shovel)\na sword (sword)\n");
            }
53
54
55
            [Test]
            public void TestBagInBag()
56
57
            {
58
                b1.Inventory.Put(b2);
59
                Assert.IsTrue(b1.Locate(b2.FirstID) == b2);
                Assert.IsTrue(b1.Locate(sword.FirstID) == sword);
60
                Assert.IsFalse(b2.Locate(shovel.FirstID) == shovel);
61
62
                Assert.AreEqual(b1.FullDescription, "a bag, containing:\na
63
                  shovel (shovel)\na sword (sword)\na bag1 (bag1)\n");
64
                Assert.AreEqual(b2.FullDescription, "a bag1, containing:\na
                  book (book)\na pc (pc)\n");
65
66
67
            }
68
69
       }
```

**70** }