```
...nted Programming\Projects\5.2P\BagTest\UnitTest1.cs
1 using _5._2P;
2 using System;
3 using System.Collections.Generic;
4 using System.Linq;
5 using System.Threading.Tasks;
6 using NUnit.Framework;
7 using System.Numerics;
8
9
10
11 namespace BagTest
12 {
13
        [TestFixture]
14
       public class Tests
15
16
            private Item _item1;
17
            private Item _item2;
18
            private Bag _bag;
19
20
            [SetUp]
21
            public void Setup()
22
                _item1 = new Item(new string[] { "sword" }, "Sword", "very
23
                  stronk sword");
                _item2 = new Item(new string[] { "shield" }, "Shield", "very >
24
                   stronk shield");
                _bag = new Bag(new string[] { "backpack" }, "Backpack",
25
                  "very gud backpack");
26
                _bag.Inventory.Put(_item1);
27
                _bag.Inventory.Put(_item2);
            }
28
29
30
            [TestCase]
31
            public void TestBagLocatesItems()
32
33
                Assert.Pass();
                var locatedItem = _bag.Locate("sword"); //reflect the return >
34
                   type of the method
35
                Assert.IsNotNull(locatedItem);
36
                Assert.AreEqual(locatedItem, _item1);
            }
37
38
39
            [TestCase]
40
            public void TestBagLocatesItself()
41
42
                var locatedBag = _bag.Locate("backpack");
                Assert.IsNotNull(locatedBag);
43
44
                Assert.AreEqual(locatedBag, _bag);
            }
45
46
47
            [TestCase]
48
            public void TestBagLocatesNothing()
```

49

```
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50
                var locatedItem = _bag.Locate("money");
51
                Assert.IsNull(locatedItem);
            }
52
53
54
            [TestCase]
55
            public void TestBagFullDescription()
56
57
                string expectedDescription = "In the Backpack you can see:
                  \tSword (sword)\n\tShield (shield)\n";
58
                Assert.AreEqual(expectedDescription, _bag.FullDescription);
59
            }
60
61
            [TestCase]
62
            public void TestBagInBag()
63
            {
                Bag innerBag = new Bag(new string[] { "innerBag" }, "Inner
64
                  Bag", "smaller bad");
65
                Item _item3 = new Item(new string[] { "diamond" },
                  "Diamond", "very rare diamond");
66
                innerBag.Inventory.Put(_item3);
67
                _bag.Inventory.Put(innerBag);
68
69
                //Test outer bag can locate inner bag
70
                var locatedInnerBag = _bag.Locate("innerBag");
71
                Assert.IsNotNull(locatedInnerBag);
72
                Assert.AreEqual(innerBag, locatedInnerBag);
73
74
                //Test outer bag can locate its item
75
                var locatedItemInOuterBag = _bag.Locate("sword");
76
                Assert.IsNotNull(locatedItemInOuterBag);
77
                Assert.AreEqual(_item1, locatedItemInOuterBag);
78
79
                //Test outer bag cannot locate inner bag's item
                var locatedItemInInnerBag = _bag.Locate("diamond");
80
81
                Assert.IsNull(locatedItemInInnerBag);
82
           }
       }
83
```

84 }