```
...rogramming\Projects\4.2P\InventoryTest\UnitTest1.cs
```

```
1
```

```
1 using _4._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 namespace InventoryTest
10 {
        [TestFixture]
11
12
       public class Tests
13
14
            private Inventory _inventory;
15
            private Item _sword;
16
            private Item _shield;
17
18
            [SetUp]
19
            public void Setup()
20
21
                _inventory = new Inventory();
                _sword = new Item(new string[] { "sword", "blade" },
22
                  "Excalibur", "A strong sword");
                _shield = new Item(new string[] { "shield", "safeguard" },
23
                  "Aegis", "A strong shield");
            }
24
25
26
            [Test]
            public void TestFindItem()
27
28
29
                _inventory.Put(_sword);
                Assert.IsTrue(_inventory.HasItem("sword"));
30
31
            }
32
33
            [Test]
34
            public void TestNoItemFind()
35
            {
36
                Assert.IsFalse(_inventory.HasItem("spear"));
            }
37
38
39
            [Test]
40
            public void TestFetchItem()
41
42
                _inventory.Put(_sword);
43
                Item fetchedItem = _inventory.Fetch("sword");
44
                Assert.AreEqual(_sword, fetchedItem);
45
                Assert.IsTrue(_inventory.HasItem("sword"));
46
            }
47
48
            [Test]
49
            public void TestTakeItem()
50
            {
51
                _inventory.Put(_shield);
```

```
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52
               Item takenItem = _inventory.Take("shield");
               Assert.AreEqual(takenItem, _shield);
53
54
               Assert.IsFalse(_inventory.HasItem("shield"), "Inventory
                 should not contain the shield because it has been taken");
55
56
           }
57
           public void TestItemList()
58
59
60
               _inventory.Put(_sword);
61
               _inventory.Put(_shield);
62
               string expectedList = "\tExcalibur\n\tAegis";
63
               Assert.AreEqual(expectedList, _inventory.ItemList);
64
           }
```

}

65 66 }