```csharp
public class Bag : Item
{
    private Inventory _inventory;

    public Bag(string[] ids, string name, string desc)
        : base(ids, name, desc)
    {
        _inventory = new Inventory();
    }

    public override string FullDescription
    {
        get
        {
            return $"In the {Name} you see:\n{_inventory.ItemList}";
        }
    }

    public Inventory Inventory
    {
        get { return _inventory; }
    }

    public GameObject Locate(string id)
    {
        if (AreYou(id))
        {
            return this;
        }

        return _inventory.Fetch(id);
    }
}
```
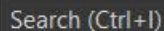
```csharp
1  using NUnit.Framework;
2
3  [TestFixture]
4  public class BagTests
5  {
6      private Bag _outerBag;
7      private Bag _innerBag;
8      private Item _gem;
9
10     [SetUp]
11     public void Setup()
12     {
13         _outerBag = new Bag(new string[] { "outer bag" }, "a large bag", "A
               large outer bag.");
14         _innerBag = new Bag(new string[] { "inner bag" }, "a small bag", "A
               small inner bag.");
15         _gem = new Item(new string[] { "gem" }, "a shiny gem", "A shiny
               precious gem.");
16         _outerBag.Inventory.Put(_innerBag);
17         _innerBag.Inventory.Put(_gem);
18     }
19
20     [Test]
21     public void TestBagLocatesItems()
22     {
23         Assert.AreEqual(_gem, _innerBag.Locate("gem"));
24     }
25
26     [Test]
27     public void TestBagLocatesItself()
28     {
29         Assert.AreEqual(_outerBag, _outerBag.Locate("outer bag"));
30     }
31
32     [Test]
33     public void TestBagLocatesNothing()
34     {
35         Assert.IsNull(_outerBag.Locate("gem"));
36     }
37
38     [Test]
39     public void TestBagFullDescription()
40     {
41         string expectedDescription = "In the a small bag you see:\n\ta
               shiny gem (gem)";
42         Assert.AreEqual(expectedDescription, _innerBag.FullDescription);
43     }
44
45     [Test]
```

```
46        public void TestBagInBag()
47        {
48            Assert.AreEqual(_innerBag, _outerBag.Locate("inner bag"));
49            Assert.IsNull(_outerBag.Locate("gem"));
50        }
51  }
52
```

Test Explorer

24 | 24 | 0

Test run finished: 5 Tests (5 Passed, 0 Failed, 0 Skipped) run in 242 ms

⚠ 0 Warnings ⊗ 0 Errors

Search (Ctrl+I)

Test	Dur
▲ ✓ IdentifiableObjectTests (24)	
▲ ✓ <Empty Namespace> (24)	
▷ ✓ BagTests (5)	
▷ ✓ IdentifiableObjectTests (7)	
	BagTests
▷ ✓ ...sts (4)	
▷ ✓ ItemTests (3)	
▷ ✓ PlayerTests (5)	

▶ Run | 🧪 Debug

Group Summary

IdentifiableObjectTests

Tests in group : 24

Total Duration : 17 ms

Outcomes

✓ 24 Passed