

```
1 using _9._2C;
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 PathTest
10 {
11
12     [TestFixture]
13     public class Tests
14     {
15         private Location _mountain1;
16         private Location _mountain2;
17         private Player _player;
18         private Item _sword;
19         private MoveCommand _moveCommand;
20         private Paths _pathToMountain1;
21         private Paths _pathToMountain2;
22         [SetUp]
23         public void Setup()
24         {
25
26             _mountain1 = new Location(new string[] { "mountain1" },      ↗
27                                     "Mountain 1", "first mountain");
28             _mountain2 = new Location(new string[] { "mountain2" },      ↗
29                                     "Mountain 2", "second mountain");
30             _sword = new Item(new string[] { "sword" }, "Excalibur", "a ↗
31                                     strong sword");
32             _mountain1.Inventory.Put(_sword);
33
34             _pathToMountain1 = new Paths(new string[] { "west" },      ↗
35                                     "Journey to the West", "path leading West", _mountain1);
36             _pathToMountain2 = new Paths(new string[] { "east" },      ↗
37                                     "Journey to the East", "path leading East", _mountain2);
38
39             _mountain1.AddPath(_pathToMountain2);
40             _mountain2.AddPath(_pathToMountain1);
41             _player = new Player("Wukong", "The monkey");
42             _player.Location = _mountain1;
43
44             _moveCommand = new MoveCommand();
45         }
46
47         [Test]
48         public void TestPathCanMovePlayer()
49         {
50             string result = _moveCommand.Execute(_player, new string[] ↗
51                 { "move", "east" });
```

```
48         Assert.AreEqual(_mountain2, _player.Location);
49
50     }
51
52     [Test]
53     public void TestGetPathFromLocation()
54     {
55         Paths path = _mountain1.GetPath("east");
56         Assert.IsNotNull(path);
57         Assert.AreEqual(_mountain2, path.Destination);
58     }
59
60     [Test]
61     public void TestPlayerCanLeaveLocation()
62     {
63         _moveCommand.Execute(_player, new string[] { "head",
64             "east" });
65         Assert.AreEqual(_mountain2, _player.Location);
66
67     }
68
69     [Test]
70     public void TestPlayerRemainInLocation()
71     {
72         _moveCommand.Execute(_player, new string[] { "head",
73             "north" });
74         Assert.AreNotEqual(_mountain2, _player.Location);
75     }
76 }
```