

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace SwinAdventure
8 {
9     public class IdentifiableObject
10    {
11        private List<string> _identifiers;
12
13        public IdentifiableObject(string[] idents)
14        {
15            _identifiers = new List<string>();
16            foreach (string id in idents)
17            {
18                _identifiers.Add(id.ToLower());
19            }
20        }
21
22        public bool AreYou(string id)
23        {
24            return _identifiers.Contains(id.ToLower());
25        }
26
27        public string FirstId
28        {
29            get
30            {
31                if (_identifiers.Count > 0)
32                {
33                    return _identifiers[0];
34                }
35                else
36                {
37                    return "";
38                }
39            }
40        }
41
42        public void AddIdentifier(string id)
43        {
44            _identifiers.Add(id.ToLower());
45        }
46    }
47 }
48
```

```
1 using SwinAdventure;
2
3 namespace IdentifiableObjectTest
4 {
5     public class Tests
6     {
7         [SetUp]
8         public void Setup()
9         {
10
11         }
12
13         [Test]
14         public void TestAreYou()
15         {
16             IdentifiableObject obj = new IdentifiableObject(new string[] { "fred", "bob" });
17
18             bool result1 = obj.AreYou("fred");
19             bool result2 = obj.AreYou("bob");
20
21             Assert.IsTrue(result1);
22             Assert.IsTrue(result2);
23         }
24
25         [Test]
26         public void TestNotAreYou()
27         {
28             IdentifiableObject obj = new IdentifiableObject(new string[] { "fred", "bob" });
29
30             bool result1 = obj.AreYou("wilma");
31             bool result2 = obj.AreYou("boby");
32
33             Assert.IsFalse(result1);
34             Assert.IsFalse(result2);
35         }
36
37         [Test]
38         public void TestCaseSensitive()
39         {
40             IdentifiableObject obj = new IdentifiableObject(new string[] { "fred", "bob" });
41
42             bool result1 = obj.AreYou("FRED");
43             bool result2 = obj.AreYou("bOB");
44
45             Assert.IsTrue(result1);
46             Assert.IsTrue(result2);
```

```
47     }
48
49     [Test]
50     public void TestFirstID()
51     {
52         IdentifiableObject obj = new IdentifiableObject(new string[] { "fred", "bob" });
53
54         string firstID = obj.FirstId;
55
56         Assert.AreEqual("fred", firstID);
57     }
58
59     [Test]
60     public void TestFirstIDWithNoIDs()
61     {
62         IdentifiableObject obj = new IdentifiableObject(new string[] { });
63
64         string firstID = obj.FirstId;
65
66         Assert.AreEqual("", firstID);
67     }
68
69     [Test]
70     public void TestAddIdentifier()
71     {
72         IdentifiableObject obj = new IdentifiableObject(new string[] { "fred", "bob" });
73
74         obj.AddIdentifier("wilma");
75
76         Assert.IsTrue(obj.AreYou("fred"));
77         Assert.IsTrue(obj.AreYou("bob"));
78         Assert.IsTrue(obj.AreYou("wilma"));
79     }
80 }
81 }
```

Test Explorer

6

6

0

Search (Ctrl+I)

System.NullReferenceException: Object reference not set to an instance of an object.

0 Warnings2 Errors

Test	Duration	Traits	Err...
IdentifiableObjectTest (6)	49 ms		
IdentifiableObjectTest (6)	49 ms		
Tests (6)	49 ms		
TestAddIdentifier	48 ms		
TestAreYou	< 1 ms		
TestCaseSensitive	< 1 ms		
TestFirstID	1 ms		
TestFirstIDWithNoIDs	< 1 ms		
TestNotAreYou	< 1 ms		

Group Summary

IdentifiableObjectTest

Tests in group: 6

Total Duration: 49 ms

Outcomes

6 Passed