```
LinksPlatform's Platform Comparers Class Library
     ./csharp/Platform.Comparers/Comparer.cs
   using System;
   using System Collections;
2
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
   namespace Platform.Comparers
6
        /// <summary>
        /// <para>
9
        /// Represents the comparer.
10
        /// </para>
11
       /// <para></para>
12
        /// </summary>
13
        /// <seealso cref="IComparer"/>
14
       public class Comparer : IComparer
15
16
            /// <summary>
17
            /// <para>
18
            /// The compare.
19
            /// </para>
20
            /// <para></para>
            /// </summary>
22
            private readonly Func<object, object, int> _compare;
            /// <summary>
24
            /// <para>
25
            /// Initializes a new <see cref="Comparer"/> instance.
            /// </para>
            /// <para></para>
28
            /// </summary>
29
            /// <param name="comparer">
30
            /// <para>A comparer.</para>
31
            /// <para></para>
32
            /// </param>
            public Comparer(IComparer comparer) : this(comparer.Compare) { }
            /// <summary>
/// <para>
35
36
            /// Initializes a new <see cref="Comparer"/> instance.
            /// </para>
38
            /// <para></para>
39
            /// </summary>
            /// <param name="compare">
41
            /// <para>A compare.</para>
42
            /// <para></para>
43
            /// </param>
            public Comparer(Func<object, object, int> compare) => _compare = compare;
45
            /// <summary>
46
            /// <para>
47
            /// Compares the x.
            /// </para>
/// <para></para>
49
50
            /// </summary>
            /// <param name="x">
52
            /// <para>The .</para>
53
            /// <para></para>
            /// </param>
55
            /// <param name="y">
56
            /// <para>The .</para>
57
            /// <para></para>
            /// </param>
59
            /// <returns>
60
            /// <para>The int</para>
            /// <para></para>
            /// </returns>
63
            public int Compare(object x, object y) => _compare(x, y);
64
            public static implicit operator Comparer(Func<object, object, int> compare) => new
               Comparer(compare);
            public static implicit operator Func<object, object, int>(Comparer comparer) =>
66

→ comparer._compare;

       }
67
68
    ./csharp/Platform.Comparers/Comparer[T].cs
1.2
   using System;
   using System.Collections.Generic;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
```

```
namespace Platform.Comparers
6
        /// <summary>
        /// <para>
9
        /// Represents the comparer.
10
        /// </para>
11
        /// <para></para>
12
        /// </summary>
13
        /// <seealso cref="IComparer{T}"/>
14
        public class Comparer<T> : IComparer<T>
15
16
            /// <summary>
17
            /// <para>
            /// The compare.
19
            /// </para>
20
            /// <para></para>
            /// </summary>
            private readonly Func<T, T, int> _compare;
            /// <summary>
24
            /// <para>
25
            /// Initializes a new <see cref="Comparer"/> instance.
26
            /// </para>
            /// <para></para>
28
            /// </summary>
29
            /// <param name="comparer">
30
            /// <para>A comparer.</para>
31
            /// <para></para>
32
            /// </param>
            public Comparer(IComparer<T> comparer) : this(comparer.Compare) { }
35
            /// <summary>
            /// <para>
36
            /// Initializes a new <see cref="Comparer"/> instance.
37
            /// </para>
38
            /// <para></para>
39
            /// </summary>
40
            /// <param name="compare">
41
            /// <para>A compare.</para>
42
            /// <para></para>
43
            /// </param>
44
            public Comparer(Func<T, T, int> compare) => _compare = compare;
45
            /// <summary>
46
            /// <para>
47
            /// Compares the x.
            /// </para>
49
            /// <para></para>
50
            /// </summary>
            /// <param name="x">
52
            /// <para>The .</para>
53
            /// <para></para>
            /// </param>
            /// <param name="y">
56
            /// <para>The .</para>
57
            /// <para></para>
58
            /// </param>
59
            /// <returns>
60
            /// <para>The int</para>
            /// <para></para>
            /// </returns>
63
            public int Compare(T x, T y) => _compare(x, y);
public static implicit operator Comparer<T>(Func<T, T, int> compare) => new
64
                Comparer<T>(compare);
            public static implicit operator Func<T, T, int>(Comparer<T> comparer) =>

→ comparer._compare;

        }
   }
68
    ./csharp/Platform.Comparers.Tests/ComparerTests.cs
   using System;
using Xunit;
3
   namespace Platform.Comparers.Tests
        /// <summary>
6
        /// <para>
7
        /// Represents the comparer tests.
        /// </para>
        /// <para></para>
```

```
/// </summary>
11
        public class ComparerTests
12
13
             /// <summary>
            /// <summary/
/// <para>
/// Tests that function conversion test.
/// </para>
/// <para>
/// <para>
/// <psummary>

The call
15
16
17
19
             [Fact]
20
             public void FunctionConversionTest()
                 Func<object, object, int> function = (object x, object y) =>
23
                 var x = new object();
25
                 var y = new object();
26
                 Assert.Equal(function(x, y), comparer.Compare(x, y));
             }
        }
29
   }
30
```

Index

- ./csharp/Platform.Comparers.Tests/ComparerTests.cs, 2 ./csharp/Platform.Comparers/Comparer.cs, 1 ./csharp/Platform.Comparers/Comparer[T].cs, 1