```
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
7
        /// <summary>
        /// <para>
9
        /// Represents the comparer.
10
        /// </para>
11
        /// <para></para>
12
        /// </summary>
13
        /// <seealso cref="IComparer"/>
14
        public class Comparer : IComparer
15
16
            private readonly Func<object, object, int> _compare;
17
            /// <summary>
18
            /// <para>
19
            /// Initializes a new <see cref="Comparer"/> instance.
            /// </para>
21
            /// <para></para>
22
            /// </summary>
23
            /// <param name="comparer">
24
            /// <para>A comparer.</para>
25
            /// <para></para>
            /// </param>
27
            public Comparer(IComparer comparer) : this(comparer.Compare) { }
28
            /// <summary>
29
            /// <para>
30
            /// Initializes a new <see cref="Comparer"/> instance.
31
            /// </para>
32
            /// <para></para>
            /// </summary>
            /// <param name="compare">
/// <para>A compare.</para>
35
36
            /// <para></para>
            /// </param>
38
            public Comparer(Func<object, object, int> compare) => _compare = compare;
39
            /// <summary>
            /// <para>
41
            /// Compares the x.
42
            /// </para>
43
            /// <para></para>
            /// </summary>
45
            /// <param name="x">
46
            /// <para>The .</para>
47
            /// <para></para>
            /// </param>
/// <param name="y">
49
50
            /// <para>The .</para>
51
            /// <para></para>
52
            /// </param>
53
            /// <returns>
            /// <para>The int</para>
55
            /// <para></para>
56
            /// </returns>
57
            public int Compare(object x, object y) => _compare(x, y);
            public static implicit operator Comparer(Func<object, object, int> compare) => new
59
               Comparer(compare);
            public static implicit operator Func<object, object, int>(Comparer comparer) =>
60

→ comparer._compare;

        }
61
   }
62
     ./csharp/Platform.Comparers/Comparer[T].cs
   using System;
1
   using System.Collections.Generic;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
   namespace Platform.Comparers
6
        /// <summary>
        /// <para>
9
        /// Represents the comparer.
```

```
/// </para>
11
        /// <para></para>
12
        /// </summary>
13
        /// <seealso cref="IComparer{T}"/>
14
        public class Comparer<T> : IComparer<T>
16
            private readonly Func<T, T, int> _compare;
17
            /// <summary>
18
            /// <para>
19
            /// Initializes a new <see cref="Comparer"/> instance.
            /// </para>
21
            /// <para></para>
22
            /// </summary>
23
            /// <param name="comparer">
            /// <para>A comparer.</para>
25
            /// <para></para>
26
            /// </param>
            public Comparer(IComparer<T> comparer) : this(comparer.Compare) { }
            /// <summary>
29
            /// <para>
30
            /// Initializes a new <see cref="Comparer"/> instance.
31
            /// </para>
32
            /// <para></para>
33
            /// </summary>
            /// <param name="compare">
35
            /// <para>A compare.</para>
36
            /// <para></para>
37
            /// </param>
            public Comparer(Func<T, T, int> compare) => _compare = compare;
39
            /// <summary>
40
            /// <para>
            /// Compares the x.
42
            /// </para>
/// <para></para>
43
44
            /// </summary>
^{45}
            /// <param name="x">
46
            /// <para>The .</para>
47
            /// <para></para>
            /// </param>
/// <param name="y">
49
50
            /// <para>The .</para>
51
            /// <para></para>
52
            /// </param>
53
            /// <returns>
54
            /// <para>The int</para>
            /// <para></para>
56
            /// </returns>
57
            public int Compare(T x, T y) => _compare(x, y);
58
            public static implicit operator Comparer<T>(Func<T, T, int> compare) => new
                Comparer<T>(compare);
            public static implicit operator Func<T, T, int>(Comparer<T> comparer) =>
60

→ comparer._compare;

        }
61
62
    ./csharp/Platform.Comparers.Tests/ComparerTests.cs
1.3
   using System;
   using Xunit;
3
   namespace Platform.Comparers.Tests
5
        /// <summary>
6
        /// <para>
7
        /// Represents the comparer tests.
        /// </para>
9
        /// <para></para>
        /// </summary>
11
        public class ComparerTests
12
13
            /// <summary>
14
            /// <para>
15
            /// Tests that function conversion test.
16
            /// </para>
            /// <para></para>
/// </summary>
18
19
            [Fact]
21
            public void FunctionConversionTest()
```

```
Func<object, object, int> function = (object x, object y) =>

x.GetHashCode().CompareTo(y.GetHashCode());
Comparer comparer = function;
var x = new object();
var y = new object();
Assert.Equal(function(x, y), comparer.Compare(x, y));

}

30 }
```

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