

## LinksPlatform's Platform.Comparers Class Library

### 1.1 ./csharp/Platform.Comparers/Comparer.cs

```
1  using System;
2  using System.Collections;
3
4 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
6 namespace Platform.Comparers
7 {
8     /// <summary>
9     /// <para>
10    /// Represents the comparer.
11   /// </para>
12  /// <para></para>
13  /// </summary>
14  /// <seealso cref="IComparer"/>
15 public class Comparer : IComparer
16 {
17     private readonly Func<object, object, int> _compare;
18     /// <summary>
19     /// <para>
20    /// Initializes a new <see cref="Comparer"/> instance.
21   /// </para>
22  /// <para></para>
23  /// </summary>
24  /// <param name="comparer">
25  /// <para>A comparer.</para>
26  /// <para></para>
27  /// </param>
28 public Comparer(IComparer comparer) : this(comparer.Compare) { }
29     /// <summary>
30     /// <para>
31    /// Initializes a new <see cref="Comparer"/> instance.
32   /// </para>
33  /// <para></para>
34  /// </summary>
35  /// <param name="compare">
36  /// <para>A compare.</para>
37  /// <para></para>
38  /// </param>
39 public Comparer(Func<object, object, int> compare) => _compare = compare;
40     /// <summary>
41     /// <para>
42    /// Compares the x.
43   /// </para>
44  /// <para></para>
45  /// </summary>
46  /// <param name="x">
47  /// <para>The .</para>
48  /// <para></para>
49  /// </param>
50  /// <param name="y">
51  /// <para>The .</para>
52  /// <para></para>
53  /// </param>
54  /// <returns>
55  /// <para>The int</para>
56  /// <para></para>
57  /// </returns>
58 public int Compare(object x, object y) => _compare(x, y);
59 public static implicit operator Comparer(Func<object, object, int> compare) => new
60     => Comparer(compare);
61     public static implicit operator Func<object, object, int>(Comparer comparer) =>
62     => comparer._compare;
63 }
64 }
```

### 1.2 ./csharp/Platform.Comparers/Comparer[T].cs

```
1  using System;
2  using System.Collections.Generic;
3
4 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
6 namespace Platform.Comparers
7 {
8     /// <summary>
9     /// <para>
10    /// Represents the comparer.
11   /// </para>
12  /// </summary>
```

```

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

### 1.3 ./csharp/Platform.Comparers.Tests/ComparerTests.cs

```

1  using System;
2  using Xunit;
3
4  namespace Platform.Comparers.Tests
5  {
6      public class ComparerTests
7      {
8          [Fact]
9          public void FunctionConversionTest()
10         {
11             Func<object, object, int> function = (object x, object y) =>
12                 => x.GetHashCode().CompareTo(y.GetHashCode());
13             Comparer comparer = function;
14             var x = new object();
15             var y = new object();
16             Assert.Equal(function(x, y), comparer.Compare(x, y));
17         }
18     }
19 }
```

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