

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>
```

```

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
        ↪ Comparer<T>(compare);
60         public static implicit operator Func<T, T, int>(Comparer<T> comparer) =>
        ↪ comparer._compare;
61     }
62 }

```

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

```

1 using System;
2 using Xunit;
3
4 namespace Platform.Comparers.Tests
5 {
6     /// <summary>
7     /// <para>
8     /// Represents the comparer tests.
9     /// </para>
10    /// <para></para>
11    /// </summary>
12    public class ComparerTests
13    {
14        /// <summary>
15        /// <para>
16        /// Tests that function conversion test.
17        /// </para>
18        /// <para></para>
19        /// </summary>
20        [Fact]
21        public void FunctionConversionTest()
22        {

```

```
23     Func<object, object, int> function = (object x, object y) =>
24         ↪ x.GetHashCode().CompareTo(y.GetHashCode());
25     Comparer comparer = function;
26     var x = new object();
27     var y = new object();
28     Assert.Equal(function(x, y), comparer.Compare(x, y));
29 }
30 }
```

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