

# 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     public class Comparer : IComparer
9     {
10         private readonly Func<object, object, int> _compare;
11         public Comparer(IComparer comparer) : this(comparer.Compare) { }
12         public Comparer(Func<object, object, int> compare) => _compare = compare;
13         public int Compare(object x, object y) => _compare(x, y);
14         public static implicit operator Comparer(Func<object, object, int> compare) => new
15             ↪ Comparer(compare);
16         public static implicit operator Func<object, object, int>(Comparer comparer) =>
17             ↪ comparer._compare;
18     }
19 }
```

## 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     public class Comparer<T> : IComparer<T>
9     {
10         private readonly Func<T, T, int> _compare;
11         public Comparer(IComparer<T> comparer) : this(comparer.Compare) { }
12         public Comparer(Func<T, T, int> compare) => _compare = compare;
13         public int Compare(T x, T y) => _compare(x, y);
14         public static implicit operator Comparer<T>(Func<T, T, int> compare) => new
15             ↪ Comparer<T>(compare);
16         public static implicit operator Func<T, T, int>(Comparer<T> comparer) =>
17             ↪ comparer._compare;
18     }
19 }
```

## 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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