```
LinksPlatform's Platform.Incrementers Class Library
    ./csharp/Platform.Incrementers/IIncrementer.cs
   namespace Platform. Incrementers
        /// <summary>
3
       /// <para>Defines an incrementer that increments any object.</para>
4
       /// <para>Определяет инкрементер, который выполняет приращение любого объекта.</para>
       /// </summary>
       public interface IIncrementer
            /// <summary>
            /// <para>Increments the object by a specific value.</para>
10
            /// <para>Выполняет приращение объекта на определённое значение.</para>
11
            /// </summary>
           void Increment();
13
       }
14
   }
15
1.2
    ./csharp/Platform.Incrementers/IIncrementer[TNumber].cs
   namespace Platform. Incrementers
1
2
       /// <summary>
3
       /// <para>Defines an incrementer that increments any number with a specific type.</para>
4
       /// <para>Определяет инкрементер, который выполняет приращение любого числа определенного
          типа.</para>
        /// </summary>
       /// <typeparam name="TNumber"><para>Туре of incremented number.</para><para>Тип
           увеличиваемого числа.</para></typeparam>
       public interface IIncrementer<TNumber>
            /// <summary>
10
            /// <para>Increments the number by a specific value.</para>
            /// <para>Увеличивает число на определённое значение.</para>
            /// </summary>
13
            /// <param name="number"><para>The number to be incremented.</para><para>Увеличиваемое
14
               число.</para></param>
            /// <returns><para>The incremented number.</para><para>Увеличенное
15
               число.</para></returns>
            TNumber Increment(TNumber number);
       }
17
   }
18
     ./csharp/Platform.Incrementers/Incrementer.cs
1.3
   using System.Runtime.CompilerServices;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
3
   namespace Platform. Incrementers
5
        /// <remarks>
       /// Must be class, not struct (in order to persist access to Result field value).
       /// </remarks>
       public class Incrementer: IIncrementer
10
11
           protected ulong _result;
12
13
           public ulong Result => _result;
14
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
16
           public Incrementer(ulong initialValue) => _result = initialValue;
17
18
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
19
           public Incrementer() { }
21
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
           public void Increment() => _result++;
       }
24
   }
25
     ./csharp/Platform.Incrementers/Incrementer[TValue, TDecision].cs
   using System.Runtime.CompilerServices;
   #pragma warning disable IDE0060 // Remove unused parameter
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform. Incrementers
       public class Incrementer<TValue, TDecision> : Incrementer
```

```
private readonly TDecision _trueValue;
10
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
12
            public Incrementer(ulong initialValue, TDecision trueValue) : base(initialValue) =>
13

    _trueValue = trueValue;

14
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
15
            public Incrementer(TDecision trueValue) => _trueValue = trueValue;
17
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
18
            public Incrementer() { }
19
20
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
21
            public TDecision IncrementAndReturnTrue()
22
23
                 _result++;
24
                return _trueValue;
            }
27
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public TDecision IncrementAndReturnTrue(TValue value)
29
30
                _result++;
31
                return _trueValue;
32
            }
33
       }
34
   }
35
1.5
     ./csharp/Platform.Incrementers/Incrementer[TValue].cs
   using System.Runtime.CompilerServices;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
3
   namespace Platform. Incrementers
        public class Incrementer<TValue> : Incrementer<TValue, bool>
7
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Incrementer(ulong initialValue) : base(initialValue, true) { }
10
11
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
12
            public Incrementer() : base(true) { }
13
        }
14
   }
15
1.6
    ./csharp/Platform.Incrementers.Tests/IncrementerTests.cs
   using Xunit;
2
   namespace Platform. Incrementers. Tests
4
        public class IncrementerTests
6
            [Fact]
            public void ParameterlessConstructedSetterTest()
                Incrementer<int> incrementer = new Incrementer<int>();
10
                Assert.Equal(default, incrementer.Result);
11
            }
12
13
            [Fact]
14
            public void ConstructedWithDefaultValueSetterTest()
15
16
                Incrementer<int> incrementer = new Incrementer<int>(9UL);
17
                Assert.Equal(9UL, incrementer.Result);
18
            }
19
            [Fact]
21
            public void MethodsWithBooleanReturnTypeTest()
22
23
                Incrementer<int> incrementer = new Incrementer<int>();
                incrementer.Increment();
25
                Assert.Equal(1UL, incrementer.Result);
26
                Assert.True(incrementer.IncrementAndReturnTrue());
2.8
                Assert.Equal(2UL, incrementer.Result);
            }
29
30
            [Fact]
31
            public void MethodsWithIntegerReturnTypeTest()
32
```

## Index

- ./csharp/Platform.Incrementers.Tests/IncrementerTests.cs, 2
  ./csharp/Platform.Incrementers/Ilncrementer.cs, 1
  ./csharp/Platform.Incrementers/Ilncrementer[TNumber].cs, 1
  ./csharp/Platform.Incrementers/Incrementer.cs, 1
  ./csharp/Platform.Incrementers/Incrementer[TValue, TDecision].cs, 1
  ./csharp/Platform.Incrementers/Incrementer[TValue].cs, 2