

# LinksPlatform's Platform.Incrementers Class Library

## 1.1 ./Incrementer.cs

```
1 namespace Platform.Incrementers
2 {
3     /// <summary>
4     /// <para>Defines an incrementer that increments any object.</para>
5     /// <para>Определяет инкрементер, который выполняет приращение любого объекта.</para>
6     /// </summary>
7     public interface IIncrementer
8     {
9         /// <summary>
10        /// <para>Increments the object by a specific value.</para>
11        /// <para>Выполняет приращение объекта на определённое значение.</para>
12        /// </summary>
13        void Increment();
14    }
15 }
```

## 1.2 ./Incrementer[TNumber].cs

```
1 namespace Platform.Incrementers
2 {
3     /// <summary>
4     /// <para>Defines an incrementer that increments any number with a specific type.</para>
5     /// <para>Определяет инкрементер, который выполняет приращение любого числа определённого
6     ↪ типа.</para>
7     /// </summary>
8     /// <typeparam name="TNumber"><para>Type of incremented number.</para><para>Тип
9     ↪ увеличиваемого числа.</para></typeparam>
10    public interface IIncrementer<TNumber>
11    {
12        /// <summary>
13        /// <para>Increments the number by a specific value.</para>
14        /// <para>Увеличивает число на определённое значение.</para>
15        /// </summary>
16        /// <param name="number"><para>The number to be incremented.</para><para>Увеличиваемое
17        ↪ число.</para></param>
18        /// <returns><para>The incremented number.</para><para>Увеличенное
19        ↪ число.</para></returns>
20        TNumber Increment(TNumber number);
21    }
22 }
```

## 1.3 ./Incrementer.cs

```
1 using System.Runtime.CompilerServices;
2
3 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
5 namespace Platform.Incrementers
6 {
7     /// <remarks>
8     /// Must be class, not struct (in order to persist access to Result field value).
9     /// </remarks>
10    public class Incrementer : IIncrementer
11    {
12        protected ulong _result;
13
14        public ulong Result => _result;
15
16        [MethodImpl(MethodImplOptions.AggressiveInlining)]
17        public Incrementer(ulong initialValue) => _result = initialValue;
18
19        [MethodImpl(MethodImplOptions.AggressiveInlining)]
20        public Incrementer() { }
21
22        [MethodImpl(MethodImplOptions.AggressiveInlining)]
23        public void Increment() => _result++;
24    }
25 }
```

## 1.4 ./Incrementer[TValue, TDecision].cs

```
1 using System.Runtime.CompilerServices;
2
3 #pragma warning disable IDE0060 // Remove unused parameter
4 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
6 namespace Platform.Incrementers
7 {
8     public class Incrementer<TValue, TDecision> : Incrementer
```

```

9      {
10         private readonly TDecision _trueValue;
11
12         [MethodImpl(MethodImplOptions.AggressiveInlining)]
13         public Incrementer(ulong initialValue, TDecision trueValue) : base(initialValue) =>
14             ↪ _trueValue = trueValue;
15
16         [MethodImpl(MethodImplOptions.AggressiveInlining)]
17         public Incrementer(TDecision trueValue) => _trueValue = trueValue;
18
19         [MethodImpl(MethodImplOptions.AggressiveInlining)]
20         public Incrementer() { }
21
22         [MethodImpl(MethodImplOptions.AggressiveInlining)]
23         public TDecision IncrementAndReturnTrue()
24         {
25             _result++;
26             return _trueValue;
27         }
28
29         [MethodImpl(MethodImplOptions.AggressiveInlining)]
30         public TDecision IncrementAndReturnTrue(TValue value)
31         {
32             _result++;
33             return _trueValue;
34         }
35     }

```

### 1.5 ./Incrementer[TValue].cs

```

1  using System.Runtime.CompilerServices;
2
3  #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
5  namespace Platform.Incrementers
6  {
7      public class Incrementer<TValue> : Incrementer<TValue, bool>
8      {
9          [MethodImpl(MethodImplOptions.AggressiveInlining)]
10         public Incrementer(ulong initialValue) : base(initialValue, true) { }
11
12         [MethodImpl(MethodImplOptions.AggressiveInlining)]
13         public Incrementer() { }
14     }
15 }

```

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