

1 System.Collections.Generic.IEnumerable<+T 2 > Interface

```
3 [ILAsm]  
4 .class interface public abstract  
5 System.Collections.Generic.IEnumerable`1<+T> implements  
6 System.Collections.IEnumerable  
  
7 [C#]  
8 public interface IEnumerable<out T>: System.Collections.IEnumerable
```

9 Assembly Info:

- 10 • *Name:* mscorlib
- 11 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- 12 • *Version:* 4.0.0.0
- 13 • *Attributes:*
 - 14 ○ CLSCompliantAttribute(true)

15 Implements:

- 16 • **System.Collections.IEnumerable**

17 Summary

18 Exposes the enumerator, which supports a simple iteration over a collection of a
19 specified type.

20 **Library:** BCL

22 Description

23 Many interfaces and classes in the `System.Collections.Generic` namespace inherit the
24 `System.Collections.Generic.IEnumerable`1<T>` interface to implement enumerators.
25 For an example, see the `System.Collections.Generic ICollection`1<T>` interface.

26 Behaviors

27 `System.Collections.Generic.IEnumerable`1<T>` is included for parity with non-
28 generic collections; implementing `System.Collections.Generic.IEnumerable`1<T>`
29 allows a generic collection to be passed to a method that expects an
30 `System.Collections.IEnumerable` object.

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1 IEnumerable<T>.GetEnumerator() Method

```
2 [ILAsm]  
3 .method public hidebysig newslot abstract virtual instance class  
4 System.Collections.Generic.IEnumerator`1<T> GetEnumerator() cil managed  
  
5 [C#]  
6 public System.Collections.Generic.IEnumerator<out T> GetEnumerator ()
```

7 Summary

8 Returns an enumerator that iterates through the collection.

9 Return Value

10 A System.Collections.Generic.IEnumerator<T> that can be used to iterate through
11 the collection.

12 Usage

13 For a detailed description regarding the use of an enumerator, see
14 System.Collections.Generic.IEnumerator<T>.

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