

# System.Collections.Generic.IEnumerable<T> Interface

```
[ILAsm]  
.class interface public abstract IEnumerable`1<T> implements  
System.Collections.IEnumerable  
  
[C#]  
public interface IEnumerable<T>: IEnumerable
```

## Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
  - CLSCompliantAttribute(true)

## Implements:

- **System.Collections.IEnumerable**

## Summary

Implemented by generic classes that support a simple iteration over instances of the collection.

**Library:** BCL

## Description

[*Note:* System.Collections.Generic.IEnumerable<T> contains the System.Collections.Generic.IEnumerable<T>.GetEnumerator method. The consumer of an object should call this method to obtain an enumerator for simple iteration over an instance of a collection. Implement this interface to support the foreach semantics of C#.

]

# IEnumerable<T>.GetEnumerator() Method

```
[ILAsm]  
.method public hidebysig virtual abstract class  
System.Collections.Generic.IEnumerator`1<T> GetEnumerator()  
  
[C#]  
IEnumerator<T> GetEnumerator()
```

## Summary

Returns a `System.Collections.Generic.IEnumerator<T>` that can be used for simple iteration over a collection.

## Return Value

A `System.Collections.Generic.IEnumerator<T>` that can be used for simple iteration over a collection.

## Behaviors

As described above.

## Usage

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