1 System.InvalidOperationException Class

```
[ILAsm]
.class public serializable InvalidOperationException extends
System.SystemException

[C#]
public class InvalidOperationException: SystemException
```

Assembly Info:

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

Summary

Represents the error that occurs when an operation cannot be performed.

Inherits From: System.SystemException

Library: BCL

Thread Safety: All public static members of this type are safe for multithreaded operations.
No instance members are guaranteed to be thread safe.

Description

[*Note:* System.InvalidOperationException is typically thrown when the state of one or more objects determines whether an operation can be performed.

The System.InvalidOperationException exception should not be thrown for errors caused by invalid arguments. For invalid argument errors, throw System.ArgumentException or one of its derived types, such as System.ArgumentNullException or System.ArgumentOutOfRangeException.

The ldflda CIL instruction throws System.InvalidOperationException.

]

Example

The following example demonstrates an error that causes a System.InvalidOperationException exception.

[C#]

using System;

```
1   using System.Collections;
2   public class InvalidOpExample  {
3     public static void Main()  {
4       int[] array = {0,0};
5       IEnumerator enumerator = array.GetEnumerator();
6       Console.Write("{0}",enumerator.Current);
7     }
8   }
```

The output is

```
Unhandled Exception: System.InvalidOperationException: Enumeration has not
started. Call MoveNext.


at System.SZArrayEnumerator.get_Current()


at InvalidOpExample.Main()
```

InvalidOperationException() Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor()


[C#]
public InvalidOperationException()
```

Summary

Constructs and initializes a new instance of the `System.InvalidOperationException` class.

Description

This constructor initializes the `System.InvalidOperationException.Message` property of the new instance to a system-supplied message that describes the error, such as "The requested operation cannot be performed." This message takes into account the current system culture.

The `System.InvalidOperationException.InnerException` property is initialized to `null`.

InvalidOperationException(System.String) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(string message)

[C#]
public InvalidOperationException(string message)
```

Summary

Constructs and initializes a new instance of the System.InvalidOperationException class.

Parameters

Parameter	Description
message	A System.String that describes the error. The content of *message* is intended to be understood by humans. The caller of this constructor is required to ensure that this string has been localized for the current system culture.

Description

This constructor initializes the System.InvalidOperationException.Message property of the new instance using *message*. If *message* is null, the System.InvalidOperationException.Message property is initialized to a system-supplied message. The System.InvalidOperationException.InnerException property is initialized to null.

InvalidOperationException(System.String, System.Exception) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(string message, class
System.Exception innerException)

[C#]
public InvalidOperationException(string message, Exception innerException)
```

Summary

Constructs and initializes a new instance of the `System.InvalidOperationException` class.

Parameters

Parameter	Description
message	A `System.String` that describes the error. The content of *message* is intended to be understood by humans. The caller of this constructor is required to ensure that this string has been localized for the current system culture.
innerException	An instance of `System.Exception` that is the cause of the current Exception. If *innerException* is non-null, then the current Exception was raised in a catch block handling *innerException*.

Description

This constructor initializes the `System.InvalidOperationException.Message` property of the new instance using *message*, and the `System.InvalidOperationException.InnerException` property using *innerException*. If *message* is `null`, the `System.InvalidOperationException.Message` property is initialized to a system-supplied message.

[*Note:* For information on inner exceptions, see `System.Exception.InnerException`.]