

# 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]
- *Version:* 1.0.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. For example, when enumerating over a set of objects, if the enumerator has not been positioned at the beginning of the set via a call to **System.Collections.IEnumerator.MoveNext**, the system throws a **System.InvalidOperationException** exception.

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` IL instruction throws **System.InvalidOperationException**.]

## 1    **Example**

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

5  
6        [C#]

```
7        using System;  
8        using System.Collections;  
9        public class InvalidOpExample {  
10        public static void Main() {  
11        int[] array = {0,0};  
12        IEnumerator enumerator = array.GetEnumerator();  
13        Console.WriteLine("{0}",enumerator.Current);  
14        }  
15        }  
16
```

17        The output is

18  
19        Unhandled Exception: System.InvalidOperationException:  
20        Enumeration has not started. Call MoveNext.

21  
22  
23        at System.SZArrayEnumerator.get\_Current()  
24

25  
26        at InvalidOpExample.Main()  
27

# 1 InvalidOperationException() Constructor

```
2 [ILASM]  
3 public rtspecialname specialname instance void .ctor()  
4  
5 [C#]  
6 public InvalidOperationException()
```

## 6 Summary

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

## 9 Description

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

15  
16 The **System.InvalidOperationException.InnerException** property  
17 is initialized to **null**.

18

# 1    **InvalidOperationException(System.String** 2    **) Constructor**

```
3    [ILASM]  
4    public rtspecialname specialname instance void .ctor(string  
5    message)  
  
6    [C#]  
7    public InvalidOperationException(string message)
```

## 8    **Summary**

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

## 11   **Parameters**

12  
13

Parameter	Description
<i>message</i>	A <b>System.String</b> that describes the error. The content of <i>message</i> 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.

14

## 15   **Description**

16        This constructor initializes the  
17       **System.InvalidOperationException.Message** property of the new  
18       instance using *message*. If *message* is **null**, the  
19       **System.InvalidOperationException.Message** property is initialized  
20       to the system-supplied message provided by the constructor that  
21       takes no arguments. The  
22       **System.InvalidOperationException.InnerException** property is  
23       initialized to **null**.

24

# 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
<i>message</i>	A <b>System.String</b> that describes the error. The content of <i>message</i> 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.
<i>innerException</i>	An instance of <b>System.Exception</b> that is the cause of the current Exception. If <i>innerException</i> is non-null, then the current Exception was raised in a catch block handling <i>innerException</i> .

## 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 the system-supplied message provided by the constructor that takes no arguments.

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