

# System.InvalidOperationException Class

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41

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

1 **Example**  
2

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

28

# 1 InvalidOperationException() Constructor

```
2 [ILASM]  
3 public rtspecialname specialname instance void .ctor()  
4 [C#]  
5 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  
7 [C#]  
8 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

# 1 InvalidOperationException(System.String, 2 System.Exception) Constructor

```
3 [ILASM]  
4 public rtspecialname specialname instance void .ctor(string  
5 message, class System.Exception innerException)  
  
6 [C#]  
7 public InvalidOperationException(string message, Exception  
8 innerException)
```

## 9 Summary

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

## 12 Parameters

13  
14

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> .

15  
16

## Description

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

25  
26  
27

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

28