

## 2. Time Span

CSharpFundamentals.Program

Main(string[] args)

```
using System;
```

```
namespace CSharpFundamentals
```

```
{
```

```
    class Program
```

```
    {
```

```
        static void Main(string[] args)
```

```
        {
```

```
            var timeSpan = new TimeSpan()
```

```
        }
```

```
    }
```

```
}
```

(<no parameters>)

(int days, int hours, int minutes, int seconds)

(int days, int hours, int minutes, int seconds, int milliseconds)

(int hours, int minutes, int seconds)

(long ticks)

ValueType

Version

Void

WeakReference

WeakReference<>

\_AppDomain

args

Parameter string[] args

async

await

bool

byte

<> [Icons]

amentals.Program

▼ Main

```
using System;
```

```
namespace CSharpFundamentals
```

```
{  
    class Program
```

```
{
```

```
    static void Main(string[] args)
```

```
{
```

```
        var timeSpan = new TimeSpan(1, 2, 3);
```

```
        var timeSpan1 = new TimeSpan(1, 0, 0);
```

```
        var timeSpan2 = TimeSpan.FromHours(1);
```

```
    }
```

```
}
```

```
CSharpFundamentals.Program Main(string[] args)
using System;

namespace CSharpFundamentals
{
    class Program
    {
        static void Main(string[] args)
        {
            var timeSpan = new TimeSpan(1, 2, 3);

            var timeSpan1 = new TimeSpan(1, 0, 0);
            var timeSpan2 = TimeSpan.FromHours(1);

            var start = DateTime.Now;
            var end = DateTime.Now.AddMinutes(2);
            var duration = end - start;
            Console.WriteLine("Duration: " + duration);
        }
    }
}
```

```
C:\Windows\system32\cmd.exe
Duration: 00:02:00.0010000
Press any key to continue . . .
```

```
namespace CSharpFundamentals
```

```
class Program
{
    static void Main(string[] args)
    {
        // Creating
        var timeSpan = new TimeSpan(1, 2, 3);

        var timeSpan1 = new TimeSpan(1, 0, 0);
        var timeSpan2 = TimeSpan.FromHours(1);

        var start = DateTime.Now;
        var end = DateTime.Now.AddMinutes(2);
        var duration = end - start;
        Console.WriteLine("Duration: " + duration);

        // Properties
        timeSpan.
```

- CompareTo
- Days
- Duration
- Equals
- GetHashCode
- GetType
- Hours
- Milliseconds
- Minutes
- Negate
- Seconds

Task List

Property int System.TimeSpan.Seconds

```
namespace CSharpFundamentals
```

```
class Program
```

```
{
```

```
    static void Main(string[] args)
```

```
    {
```

```
        // Creating
```

```
        var timeSpan = new TimeSpan(1, 2, 3);
```

```
        var timeSpan1 = new TimeSpan(1, 0, 0);
```

```
        var timeSpan2 = TimeSpan.FromHours(1);
```

```
        var start = DateTime.Now;
```

```
        var end = DateTime.Now.AddMinutes(2);
```

```
        var duration = end - start;
```


```
        Console.WriteLine("Duration: " + duration);
```


```
        // Properties
```


```
        timeSpan.Total
```


```
    }
```


```
}
```

 **TotalDays**

 **TotalHours**

 **TotalMilliseconds**

 **TotalMinutes**

 **TotalSeconds**

Property double System.TimeSpan.TotalHours

Gets the value of the current **TimeSpan** structure expressed in whole and fractional hours.



```
using System;

namespace CSharpFundamentals
{
    class Program
    {
        static void Main(string[] args)
        {
            // Creating
            var timeSpan = new TimeSpan(1, 2, 3);

            var timeSpan1 = new TimeSpan(1, 0, 0);
            var timeSpan2 = TimeSpan.FromHours(1);

            var start = DateTime.Now;
            var end = DateTime.Now.AddMinutes(2);
            var duration = end - start;
            Console.WriteLine("Duration: " + duration);

            // Properties
            Console.WriteLine("Minutes: " + timeSpan.Minutes);
            Console.WriteLine("Total Minutes: " + timeSpan.TotalMinutes);
        }
    }
}
```

C:\Windows\system32\cmd.exe

```
Duration: 00:02:00.0010000
Minutes: 2
Total Minutes: 62.05
Press any key to continue . . .
```

```
using System;
```

```
namespace CSharpFundamentals
```

```
{
```

```
    class Program
```

```
    {
```

```
        static void Main(string[] args)
```

```
        {
```

```
            // Creating
```

```
            var timeSpan = new TimeSpan(1, 2, 3);
```

```
            var timeSpan1 = new TimeSpan(1, 0, 0);
```

```
            var timeSpan2 = TimeSpan.FromHours(1);
```

```
            var start = DateTime.Now;
```

```
            var end = DateTime.Now.AddMinutes(2);
```

```
            var duration = end - start;
```

```
            Console.WriteLine("Duration: " + duration);
```

```
            // Properties
```

```
            Console.WriteLine("Minutes: " + timeSpan.Minutes);
```

```
            Console.WriteLine("Total Minutes: " + timeSpan.TotalMinutes);
```

```
            // Add
```

```
            Console.WriteLine("Add Example: " + timeSpan.Add());
```

```
        }
```

```
    }
```

(TimeSpan ts):TimeSpan

Returns a new **TimeSpan** object whose value is the sum of the specified **TimeSpan** object and this instance.

**ts**: The time interval to add.



```
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        static void Main(string[] args)
```

```
        {
```

```
            // Creating
```

```
            var timeSpan = new TimeSpan(1, 2, 3);
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```
            var timeSpan1 = new TimeSpan(1, 0, 0);
```

```
            var timeSpan2 = TimeSpan.FromHours(1);
```

```
            var start = DateTime.Now;
```

```
            var end = DateTime.Now.AddMinutes(2);
```

```
            var duration = end - start;
```

```
            Console.WriteLine("Duration: " + duration);
```

```
            // Properties
```

```
            Console.WriteLine("Minutes: " + timeSpan.Minutes);
```

```
            Console.WriteLine("Total Minutes: " + timeSpan.TotalMinutes);
```

```
            // Add
```

```
            Console.WriteLine("Add Example: " + timeSpan.Add(TimeSpan.FromMinutes(8)));
```

```
        }
```

```
    }
```

```
C:\Windows\system32\cmd.exe
```

```
Duration: 00:02:00
```

```
Minutes: 2
```

```
Total Minutes: 62.05
```

```
Add Example: 01:10:03
```

```
Press any key to continue . . .
```

```
using System;
```

```
namespace CSharpFundamentals
```

```
{
```

```
    class Program
```

```
    {
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```
        static void Main(string[] args)
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```
            // Creating
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```
            var timeSpan = new TimeSpan(1, 2, 3);
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```
            var timeSpan2 = TimeSpan.FromHours(1);
```

```
            var start = DateTime.Now;
```

```
            var end = DateTime.Now.AddMinutes(2);
```

```
            var duration = end - start;
```

```
            Console.WriteLine("Duration: " + duration);
```

```
            // Properties
```

```
            Console.WriteLine("Minutes: " + timeSpan.Minutes);
```

```
            Console.WriteLine("Total Minutes: " + timeSpan.TotalMinutes);
```

```
            // Add
```

```
            Console.WriteLine("Add Example: " + timeSpan.Add(TimeSpan.FromMinutes(8)));
```

```
            Console.WriteLine("Subtract Example: " + timeSpan.Subtract(TimeSpan.FromMinutes(2))
```

```
        }
```

```
C:\Windows\system32\cmd.exe
```

```
Duration: 00:02:00.0010000
```

```
Minutes: 2
```

```
Total Minutes: 62.05
```

```
Add Example: 01:10:03
```

```
Subtract Example: 00:00:03
```

```
Press any key to continue . . .
```

```
var timeSpan = new TimeSpan(1, 2, 3);

var timeSpan1 = new TimeSpan(1, 0, 0);
var timeSpan2 = TimeSpan.FromHours(1);

var start = DateTime.Now;
var end = DateTime.Now.AddMinutes(2);
var duration = end - start;
Console.WriteLine("Duration: " + duration);
```

```
// Properties
Console.WriteLine("Minutes: " + timeSpan.Minutes);
Console.WriteLine("Total Minutes: " + timeSpan.TotalMinutes);

// Add
Console.WriteLine("Add Example: " + timeSpan.Add(TimeSpan.FromMinutes(8)));
Console.WriteLine("Subtract Example: " + timeSpan.Subtract(TimeSpan.FromMinutes(2)));

// ToString
Console.WriteLine("ToString" + timeSpan.ToString());

// Parse
Console.WriteLine("Parse: " + TimeSpan.Parse("01:02:03"));
```

```
} Program
```

```
}
```

```
}
```

C:\Windows\system32\cmd.exe

```
Duration: 00:02:00.0010000
Minutes: 2
Total Minutes: 62.05
Add Example: 01:10:03
Subtract Example: 01:00:03
ToString01:02:03
Parse: 01:02:03
Press any key to continue . . .
```