

Namespace

Using Namespaces

- .NET Namespace
- Custom namespace

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5  using System.Threading.Tasks;
6
7  namespace test
8  {
9      class Program
10     {
11         static void Main(string[] args)
12         {
13         }
14     }
15 }
16
```

Using Namespaces to control scope (page 1)

```
1  using System;
2
3  namespace SampleNamespace
4  {
5      class SampleClass
6      {
7          public void SampleMethod()
8          {
9              System.Console.WriteLine(
10                 "SampleMethod inside SampleNamespace");
11          }
12      }
13
14      // Create a nested namespace, and define another class.
15      namespace NestedNamespace...
16
17      class Program...
18  }
```

4 references

2 references

0 references

Using Namespaces to control scope (page 2)

```
1  using System;
2
3  namespace SampleNamespace
4  {
5      4 references
6      class SampleClass...
7
8      // Create a nested namespace, and define another class.
9      namespace NestedNamespace
10     {
11         2 references
12         class SampleClass
13         {
14             1 reference
15             public void SampleMethod()
16             {
17                 System.Console.WriteLine(
18                     "SampleMethod inside NestedNamespace");
19             }
20         }
21     }
22
23     0 references
24     class Program...
25 }
26
27
28
29
30
31
32
33
34
35
36
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38
39
40
41
42
43
44 }
```

Using Namespaces to control scope (page 3)

```
static void Main(string[] args)
{
    // Displays "SampleMethod inside SampleNamespace."
    SampleClass outer = new SampleClass();
    outer.SampleMethod();

    // Displays "SampleMethod inside SampleNamespace."
    SampleNamespace.SampleClass outer2 = new SampleNamespace.SampleClass();
    outer2.SampleMethod();

    // Displays "SampleMethod inside NestedNamespace."
    NestedNamespace.SampleClass inner = new NestedNamespace.SampleClass();
    inner.SampleMethod();
}
```

```
SampleMethod inside SampleNamespace
SampleMethod inside SampleNamespace
SampleMethod inside NestedNamespace
Press any key to continue . . .
```

Fully Qualified Names

```
1 namespace N1 // N1
2 {
3     0 references
4     class C1 // N1.C1
5     {
6         0 references
7         class C2 // N1.C1.C2
8         {
9         }
10    }
11    namespace N2 // N1.N2
12    {
13        0 references
14        class C2 // N1.N2.C2
15        {
16        }
17    }
18 }
```

Exercise