

ReferenceType.cs Program.cs ReferenceType.EntryPoint Main()

```
50 obj3.Setx(400);
51
52 System.Console.WriteLine(obj1.GetX());
53 System.Console.WriteLine(obj2.GetX());
54 System.Console.WriteLine(obj3.GetX());
55
56 }
57
58 0 references
59 static void Main()
60 {
61     ValueType obj1 = new ValueType(); < 1ms elapsed
62     obj1.Setx(100);
63     Test(obj1);
64     ReferenceType obj2 = new ReferenceType();
65     NewTest(obj2);
66 }
67
68 1 reference
69 static void Test(ValueType arg)
70 {
71     arg.Setx(300);
72 }
```

100 %

Name	Value	Type
obj1	{ReferenceType.ValueType}	ReferenceType
x	0	int

Call Stack

Name
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 60

ReferenceType.cs Program.cs ReferenceType.EntryPoint Main()

```
50 obj3.Setx(400);
51
52 System.Console.WriteLine(obj1.GetX());
53 System.Console.WriteLine(obj2.GetX());
54 System.Console.WriteLine(obj3.GetX());
55
56 }
57
58 0 references
59 static void Main()
60 {
61     ValueType obj1 = new ValueType();
62     obj1.Setx(100); < 1ms elapsed
63     Test(obj1);
64     ReferenceType obj2 = new ReferenceType();
65     NewTest(obj2);
66 }
67
68 1 reference
69 static void Test(ValueType arg)
70 {
71     arg.Setx(300);
72 }
```

100 %

Name	Value	Type
obj1	{ReferenceType.ValueType}	ReferenceType
x	0	int

Call Stack

Name
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 61

ReferenceType.cs Program.cs

ReferenceType.ValueType Setx(int value)

```
26 }
27 #endregion
28 }
29
30 3 references
31 struct ValueType
32 {
33     int x;
34     2 references
35     public void Setx(int value)
36     {
37         51ms elapsed
38         this.x = value;
39     }
40 }
41 0 references
42 class EntryPoint
43 {
44     0 references
45     static void Main_old()
46     {
47     }
48 }
```

100 %

Name	Value	Type
this	{ReferenceType.ValueType}	Referenc
value	100	int

Name
ReferenceType.exe!ReferenceType.ValueType.Setx(int value) Line 34
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 61

ReferenceType.cs Program.cs

ReferenceType.ValueType Setx(int value)

```
26 }
27 #endregion
28 }
29
30 3 references
31 struct ValueType
32 {
33     int x;
34     2 references
35     public void Setx(int value)
36     {
37         this.x = value; 51ms elapsed
38     }
39 }
40 0 references
41 class EntryPoint
42 {
43     0 references
44     static void Main_old()
45     {
46     }
47 }
```

100 %

Name	Value	Type
this	{ReferenceType.ValueType}	Referenc
this.x	0	int
value	100	int

Name
ReferenceType.exe!ReferenceType.ValueType.Setx(int value) Line 35
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 61

ReferenceType.cs Program.cs

ReferenceType.EntryPoint Main()

```
52 System.Console.WriteLine(obj1.GetX());
53 System.Console.WriteLine(obj2.GetX());
54 System.Console.WriteLine(obj3.GetX());
55 }
56
57 0 references
58 static void Main()
59 {
60     ValueType obj1 = new ValueType();
61     obj1.Setx(100); 52ms elapsed
62     Test(obj1);
63     ReferenceType obj2 = new ReferenceType();
64     NewTest(obj2);
65 }
66 1 reference
67 static void Test(ValueType arg)
68 {
69     arg.Setx(300);
70 }
71 1 reference
```

100 %

Name	Value	Type
obj1	{ReferenceType.ValueType}	Referenc

Name
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 61

ReferenceType.cs Program.cs ReferenceType.EntryPoint Main()

```

52 System.Console.WriteLine(obj1.GetX());
53 System.Console.WriteLine(obj2.GetX());
54 System.Console.WriteLine(obj3.GetX());
55 }
56 }
57
58 0 references
59 static void Main()
60 {
61     ValueType obj1 = new ValueType();
62     obj1.Setx(100);
63     Test(obj1);
64     ReferenceType obj2 = new ReferenceType();
65     NewTest(obj2);
66 }
67 1 reference
68 static void Test(ValueType arg)
69 {
70     arg.Setx(300);
71 }
72 1 reference

```

100 %

Name	Value	Type
obj1	{ReferenceType.ValueType}	Referenc

Name
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 62

ReferenceType.cs Program.cs ReferenceType.EntryPoint Test(ValueType arg)

```

52 System.Console.WriteLine(obj1.GetX());
53 System.Console.WriteLine(obj2.GetX());
54 System.Console.WriteLine(obj3.GetX());
55 }
56 }
57
58 0 references
59 static void Main()
60 {
61     ValueType obj1 = new ValueType();
62     obj1.Setx(100);
63     Test(obj1);
64     ReferenceType obj2 = new ReferenceType();
65     NewTest(obj2);
66 }
67 1 reference
68 static void Test(ValueType arg)
69 {
70     arg.Setx(300);
71 }
72 1 reference

```

100 %

Name	Value	Type
arg	{ReferenceType.ValueType}	Referenc

Name
ReferenceType.exe!ReferenceType.EntryPoint.Test(ValueType arg) Line 68
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 62

ReferenceType.cs Program.cs ReferenceType.ValueType Setx(int value)

```

26 }
27 #endregion
28 }
29
30 3 references
31 struct ValueType
32 {
33     int x;
34     2 references
35     public void Setx(int value)
36     {
37         this.x = value;
38     }
39 }
40 0 references
41 class EntryPoint
42 {
43     0 references
44     static void Main_old()
45     {

```

100 %

Name	Value	Type
this	{ReferenceType.ValueType}	Referenc
value	300	int

Name
ReferenceType.exe!ReferenceType.ValueType.Setx(int value) Line 34
ReferenceType.exe!ReferenceType.EntryPoint.Test(ValueType arg) Line 68
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 62

ReferenceType.cs x Program.cs

ReferenceType.ValueType

```

26
27
28
29
30 struct ValueType
31 {
32     int x;
33     public void Setx(int value)
34     {
35         this.x = value; 51ms elapsed
36     }
37 }
38
39 class EntryPoint
40 {
41     static void Main_old()
42     {

```

100 %

Name	Value	Type
this	{ReferenceType.ValueType}	Reference
this.x	100	int
value	300	int

Name
ReferenceType.exe!ReferenceType.ValueType.Setx(int value) Line 35
ReferenceType.exe!ReferenceType.EntryPoint.Test(ReferenceType.ValueType arg) Line 68
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 62

ReferenceType.cs x Program.cs

ReferenceType.EntryPoint

```

59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76

```

100 %

Name	Value	Type
arg	{ReferenceType.ValueType}	Reference

Name
ReferenceType.exe!ReferenceType.EntryPoint.Test(ReferenceType.ValueType arg) Line 68
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 62

ReferenceType.cs x Program.cs

ReferenceType.EntryPoint

```

59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76

```

100 %

Name	Value	Type
obj1	{ReferenceType.ValueType}	Reference

Name
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 62

ReferenceType.cs Program.cs ReferenceType.EntryPoint Main()

```
59
60
61 ValueType obj1 = new ValueType();
62 obj1.Setx(100);
63 Test(obj1);
64 ReferenceType obj2 = new ReferenceType();
65 NewTest(obj2);
66 }
67 1 reference
68 static void Test(ValueType arg)
69 {
70     arg.Setx(300);
71 }
72 1 reference
73 static void NewTest(ReferenceType arg)
74 {
75     arg.Setx(500);
76 }
```

100 %

Autos		
Name	Value	Type
obj1	{ReferenceType.ValueType}	Reference
obj2	null	Reference

Call Stack	
Name	
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 63	

ReferenceType.cs Program.cs ReferenceType.EntryPoint Main()

```
59
60
61 ValueType obj1 = new ValueType();
62 obj1.Setx(100);
63 Test(obj1);
64 ReferenceType obj2 = new ReferenceType();
65 NewTest(obj2);
66 }
67 1 reference
68 static void Test(ValueType arg)
69 {
70     arg.Setx(300);
71 }
72 1 reference
73 static void NewTest(ReferenceType arg)
74 {
75     arg.Setx(500);
76 }
```

100 %

Autos		
Name	Value	Type
obj2	{ReferenceType.ReferenceType}	Reference

Call Stack	
Name	
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 64	

ReferenceType.cs Program.cs ReferenceType.EntryPoint NewTest(ReferenceType arg)

```

59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76

```

```

ValueType obj1 = new ValueType();
obj1.Setx(100);
Test(obj1);
ReferenceType obj2 = new ReferenceType();
NewTest(obj2);
}
1 reference
static void Test(ValueType arg)
{
    arg.Setx(300);
}
1 reference
static void NewTest(ReferenceType arg)
{
    arg.Setx(500); 51ms elapsed
}

```

100 %

Name	Value	Type
arg	(ReferenceType.ReferenceType)	Referenc

Name
ReferenceType.exe!ReferenceType.EntryPoint.NewTest(ReferenceType.ReferenceType arg) Line 72
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 64

ReferenceType.cs Program.cs ReferenceType.ReferenceType Setx(int value)

```

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

```

```

//Encapsulate
#region Fields
private int x;
private static int y;
#endregion
#region Mutators/functions
//public void setx(ReferenceType this,int value)
4 references
public void Setx(int value)
{
    this.x = value; 51ms elapsed
}
3 references
public int GetX()
{
    return this.x;
}
#endregion

```

100 %

Name	Value	Type
this	(ReferenceType.ReferenceType)	Referenc
this.x	0	int
value	500	int

Name
ReferenceType.exe!ReferenceType.ReferenceType.Setx(int value) Line 20
ReferenceType.exe!ReferenceType.EntryPoint.NewTest(ReferenceType.ReferenceType arg) Line 72
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 64

ReferenceType.cs Program.cs ReferenceType.EntryPoint NewTest(ReferenceType arg)

```

64
65
66
67
68
69
70
71
72
73
74
75
76

```

```

NewTest(obj2);
}
1 reference
static void Test(ValueType arg)
{
    arg.Setx(300);
}
1 reference
static void NewTest(ReferenceType arg)
{
    arg.Setx(500); 51ms elapsed
}

```

100 %

Name	Value	Type
arg	(ReferenceType.ReferenceType)	Referenc

Name
ReferenceType.exe!ReferenceType.EntryPoint.NewTest(ReferenceType.ReferenceType arg) Line 72
ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 64

ReferenceType.cs Program.cs ReferenceType.EntryPoint Main()

```
53 System.Console.WriteLine(obj2.GetX());
54 System.Console.WriteLine(obj3.GetX());
55
56 }
57
58 0 references
59 static void Main()
60 {
61     ValueType obj1 = new ValueType();
62     obj1.SetX(100);
63     Test(obj1);
64     ReferenceType obj2 = new ReferenceType();
65     NewTest(obj2); // 5.2ms elapsed
66 }
67 1 reference
68 static void Test(ValueType arg)
69 {
70     arg.SetX(300);
71 }
72 1 reference
73 static void NewTest(ReferenceType arg)
```

100 %

Autos			Call Stack
Name	Value	Type	Name
obj2	(ReferenceType.ReferenceType)	ReferenceType	ReferenceType.exe!ReferenceType.EntryPoint.Main() Line 64