

JSDN by Example

(part 4)

Objects

Object Literals

```
var obj = {  
  x: 11,  
  y: 4 + 5  
}
```

(Code)

(Memory)

Object Literals

```
var obj = {  
  x: 11,  
  y: 4 + 5  
}
```

a. Assignment

Object Literals

```
var obj = {  
  x: 11,  
  y: 4 + 5  
}
```

- a. Assignment
 - a. Evaluate right side

Object Literals

```
var obj = {  
  x: 11,  
  y: 4 + 5  
}
```

- a. Assignment
 - a. Evaluate right side
 - a. Create object



Object Literals

```
var obj = {  
  x: 11,  
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```

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment



Object Literals

```
var obj = {  
  x: 11,  
  y: 4 + 5  
}
```

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side (create value)

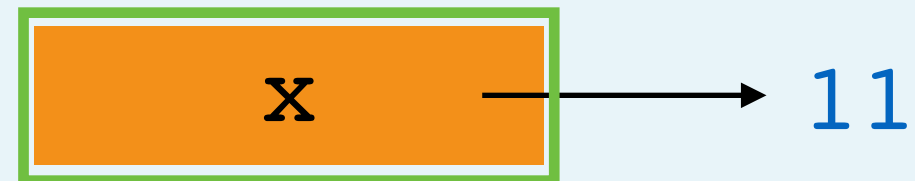


11

Object Literals

```
var obj = {  
  x: 11,  
  y: 4 + 5  
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```

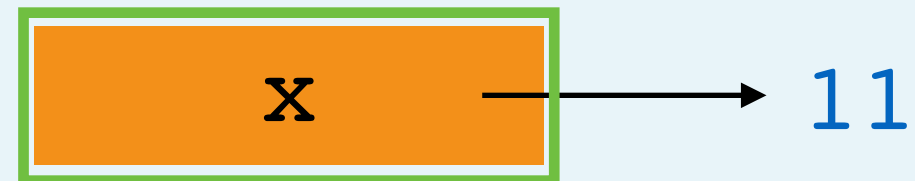
- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop x, point to value



Object Literals

```
var obj = {  
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```

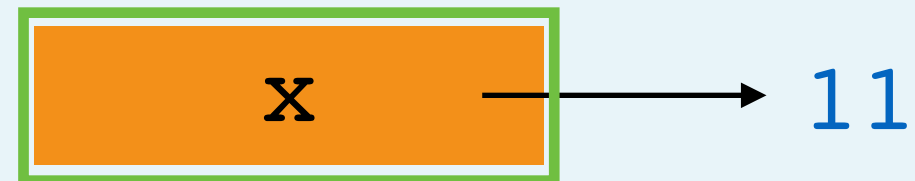
- a. Assignment
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Object Literals

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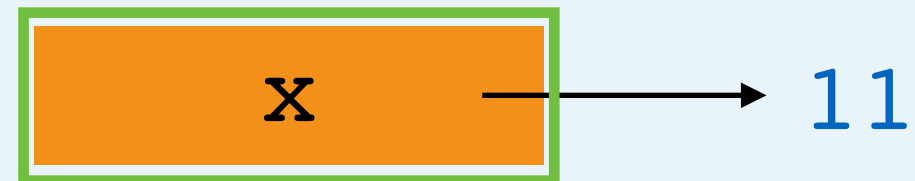
- a. Assignment
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 - b. Property Assignment
 - a. Evaluate right side



Object Literals

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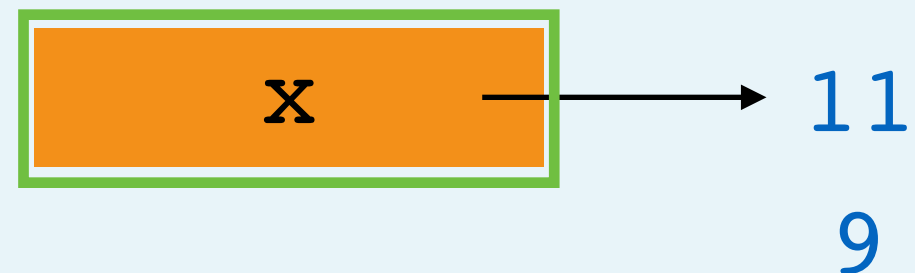
- a. Assignment
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 - a. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop x, point to value
 - b. Property Assignment
 - a. Evaluate right side
 - a. Binary Operation (addition)



Object Literals

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var obj = {  
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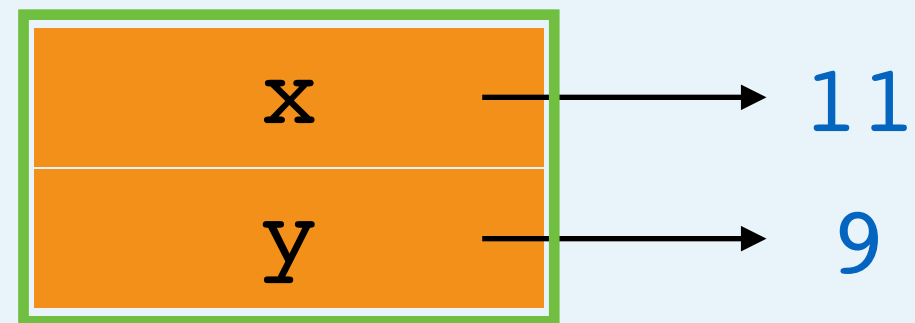
- a. Assignment
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 - a. Binary Operation (addition)
 - a. Create value



Object Literals

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- a. Assignment
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 - a. Evaluate right side
 - a. Binary Operation (addition)
 - a. Create value
 - b. Create prop y, point to value



Object Literals

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a. Assignment

a. Evaluate right side

a. Create object

a. Property Assignment

a. Evaluate right side (create value)

b. Create prop x, point to value

b. Property Assignment

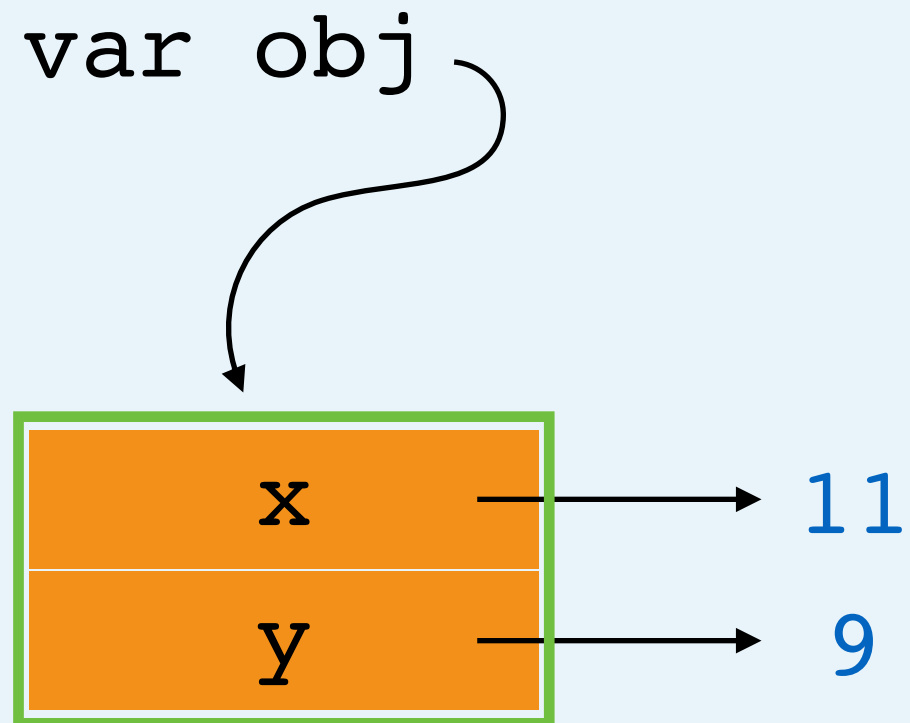
a. Evaluate right side

a. Binary Operation (addition)

a. Create value

b. Create prop y, point to value

b. Create var obj, point to object

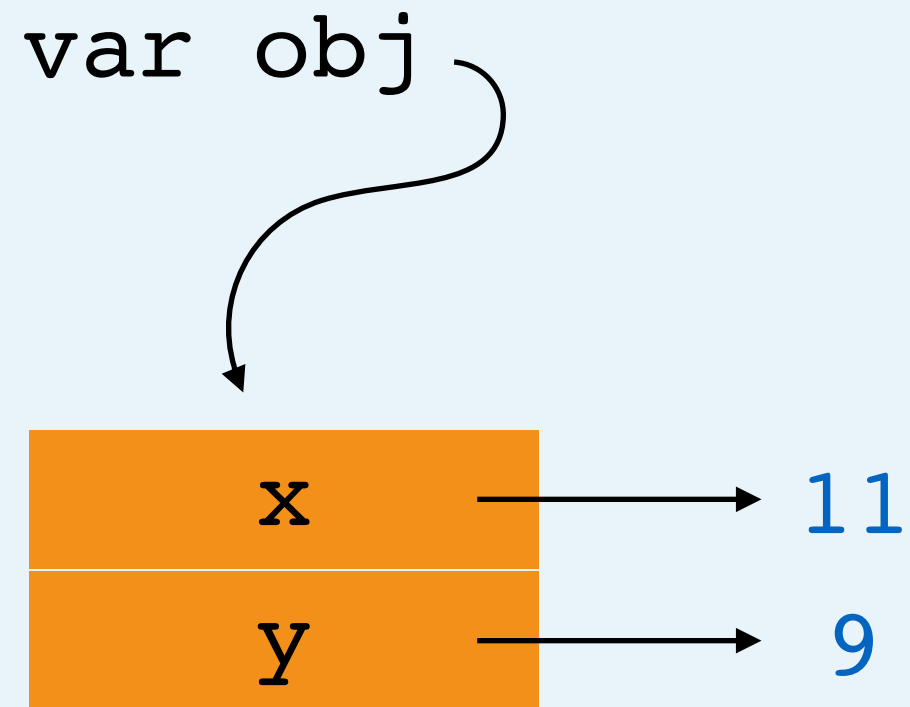


Object Literals

```
var obj = {  
  x: 11,  
  y: 4 + 5  
}
```

All Done!

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop x, point to value
 - b. Property Assignment
 - a. Evaluate right side
 - a. Binary Operation (addition)
 - a. Create value
 - b. Create prop y, point to value
 - b. Create var obj, point to object



Object with Functions

```
var button = {  
  press: function () {  
    return "buzz!"  
  }  
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Object with Functions

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 - a. Create object



Object with Functions

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- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment



Object with Functions

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var button = {  
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- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side



Object with Functions

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var button = {  
  press: function () {  
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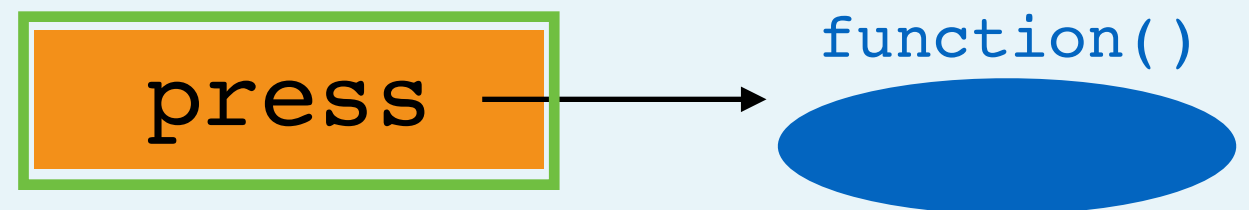
- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create function



Object with Functions

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var button = {  
  press: function () {  
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  }  
}
```

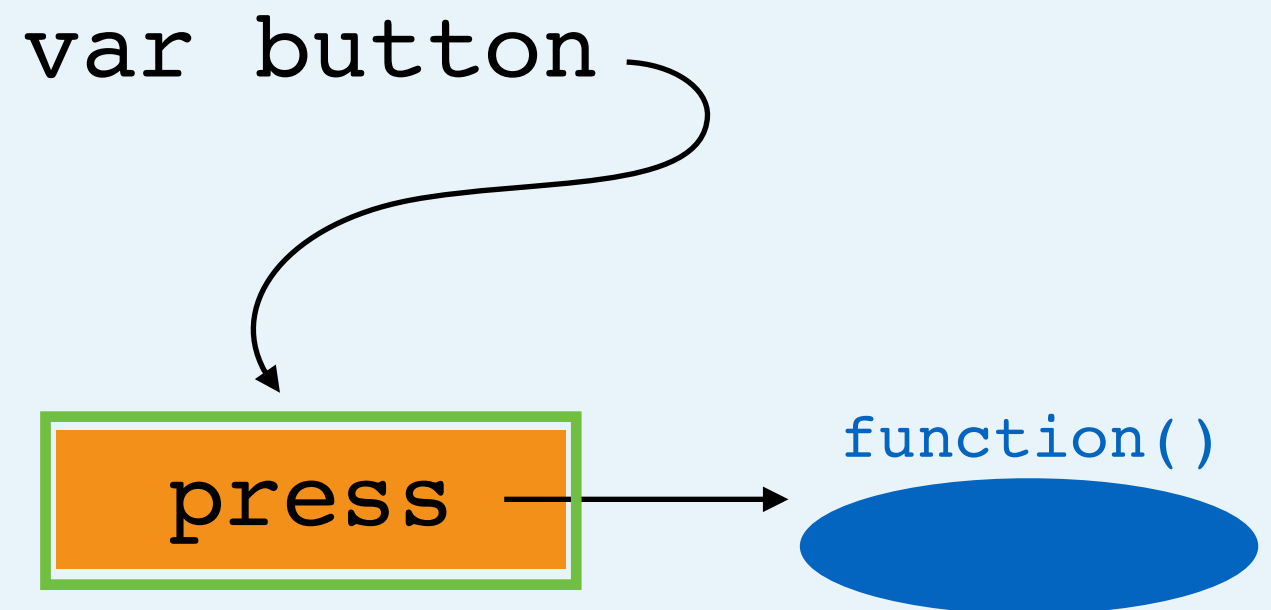
- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create function
 - b. Create prop "press", point to value



Object with Functions

```
var button = {  
  press: function () {  
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  }  
}
```

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create function
 - b. Create prop "press", point to value
 - b. Create var obj, point to object



Object with Functions

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var button = {  
  press: function () {  
    return "buzz!"  
  }  
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```

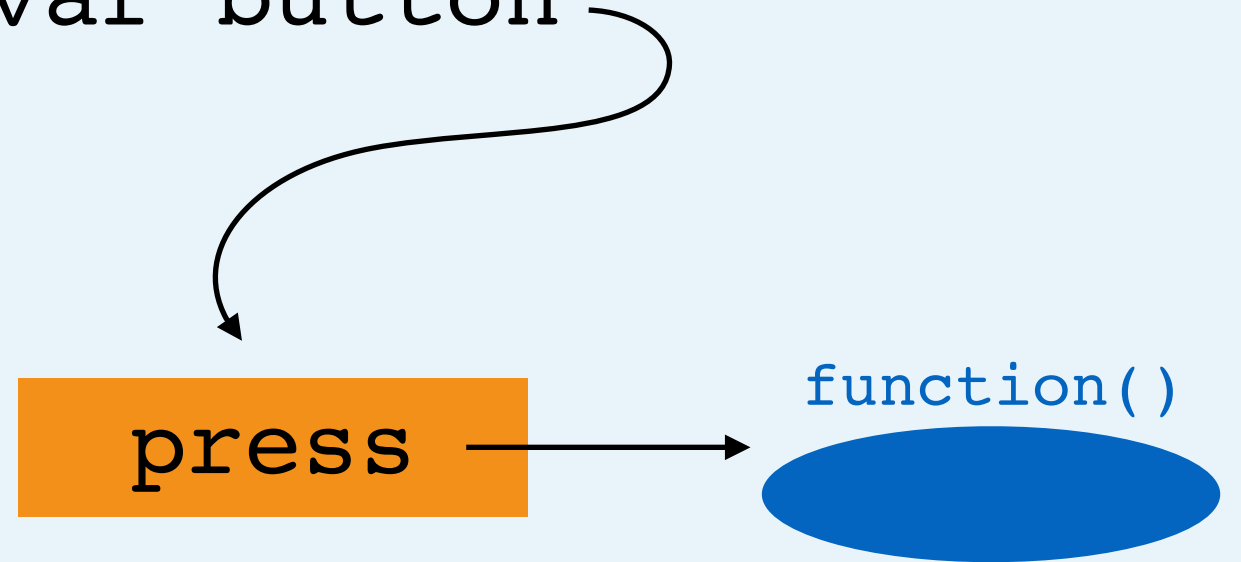
All Done!

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create function
 - b. Create prop "press", point to value
 - b. Create var obj, point to object

var button

press

function()



Object and Variables

```
var a = { x: 11 }  
var b = a  
b.y = 22  
a.z = a.y + 11
```

Object and Variables

```
var a = { x: 11 }  
var b = a  
b.y = 22  
a.z = a.y + 11
```

(create object)

var a



Object and Variables

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var a = { x: 11 }  
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```

a. Assignment

var a

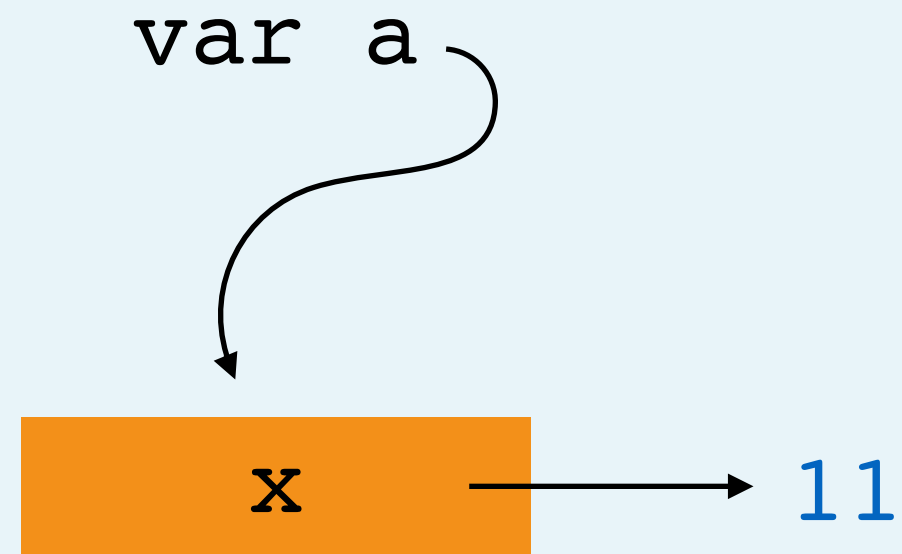


Object and Variables

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var a = { x: 11 }  
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b.y = 22  
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```

a. Assignment

a. Evaluate right side



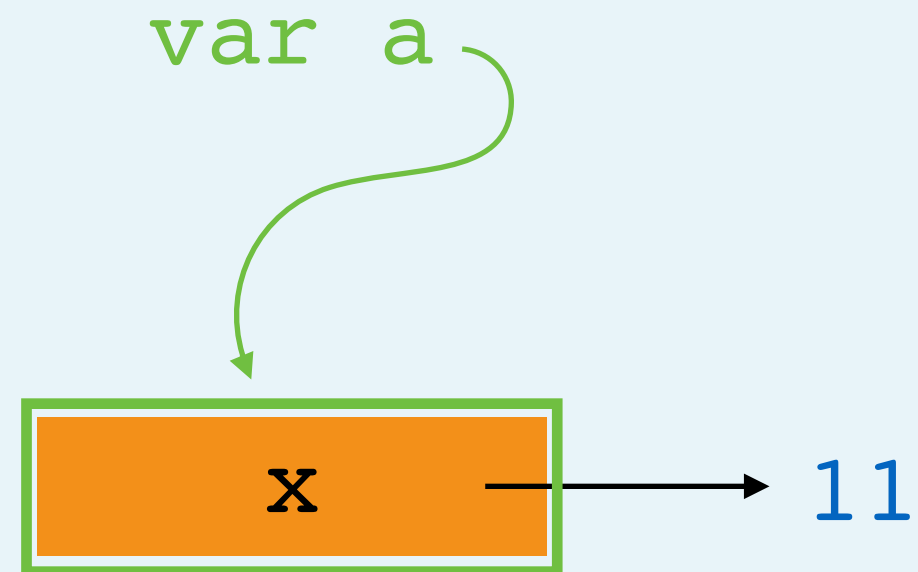
Object and Variables

```
var a = { x: 11 }  
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a.z = a.y + 11
```

a. Assignment

a. Evaluate right side

a. Look up value of “a” (it’s an object!)



Object and Variables

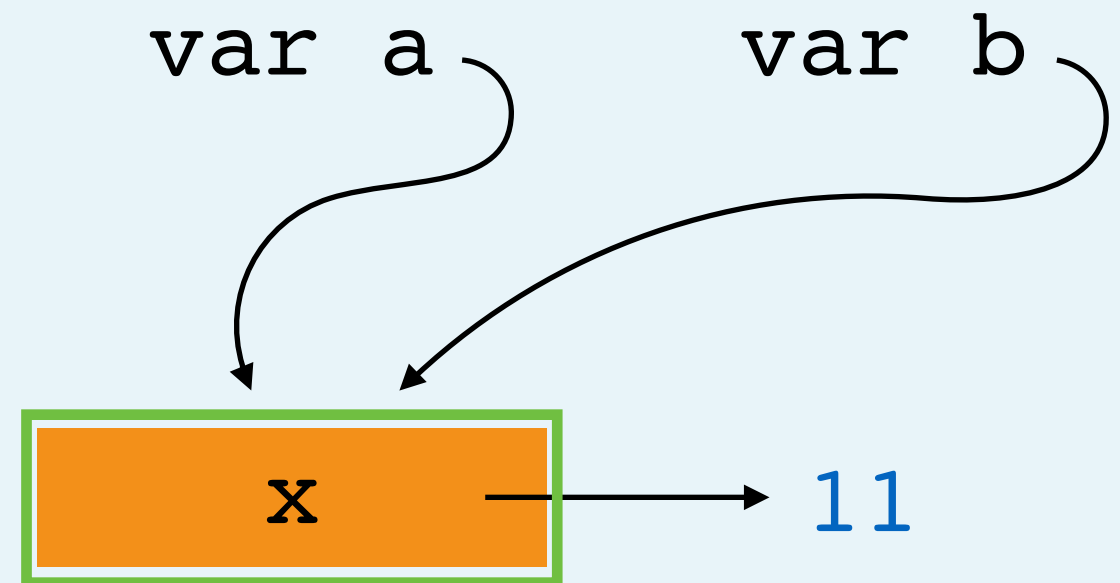
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var a = { x: 11 }  
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a. Assignment

a. Evaluate right side

a. Look up value of “a” (it’s an object!)

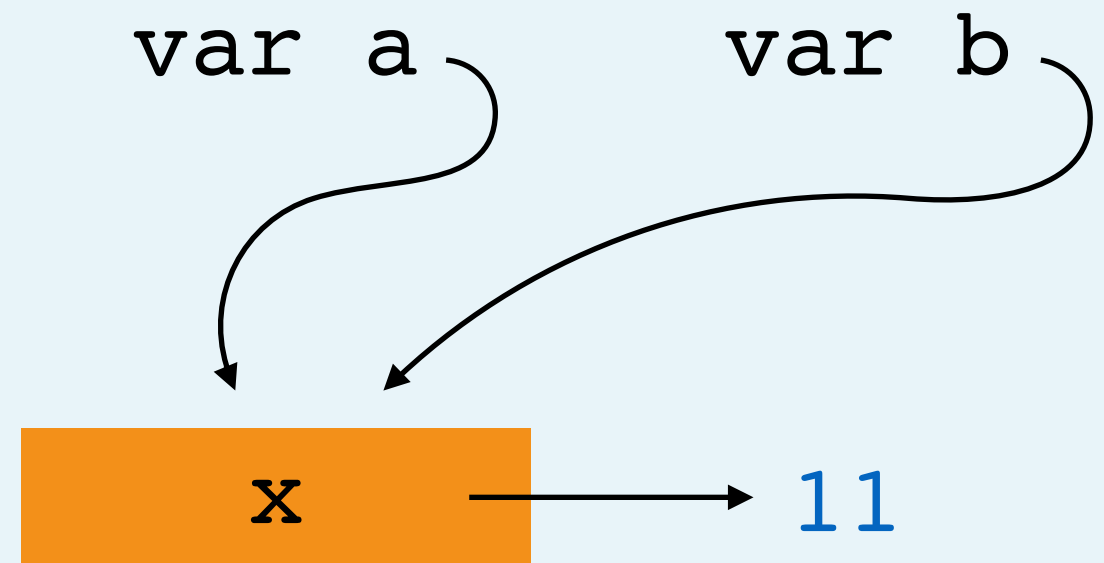
b. Create var “b”, point to value of right side



Object and Variables

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var a = { x: 11 }  
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a.z = a.y + 11
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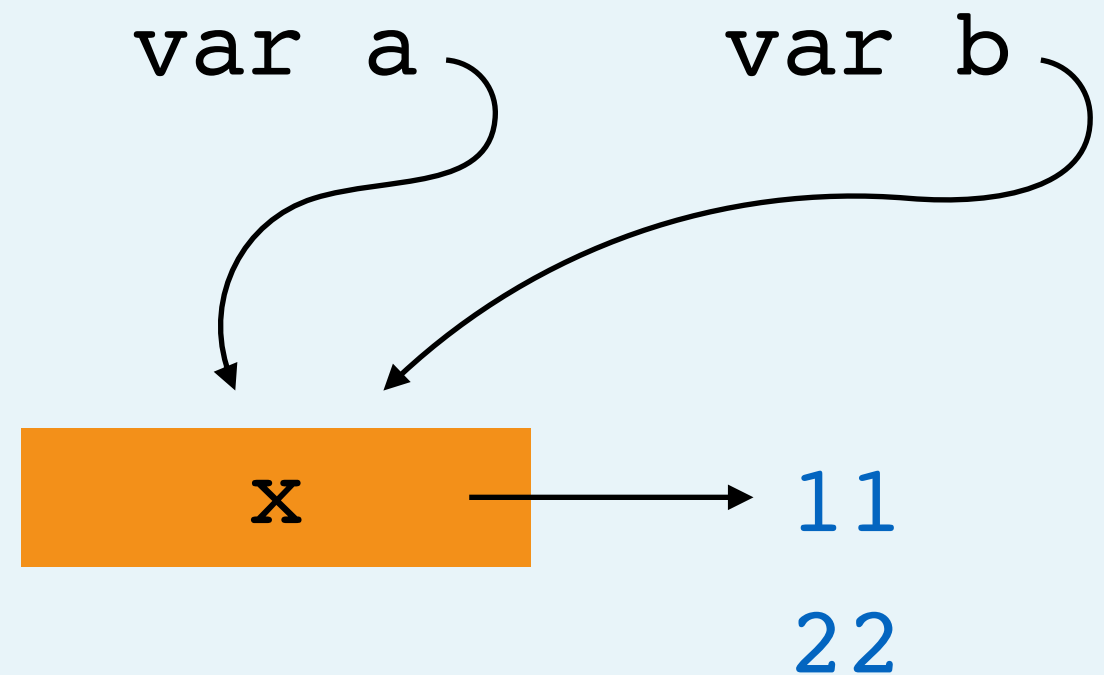
- a. Assignment
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 - a. Look up value of “a” (it’s an object!)
 - b. Create var “b”, point to value of right side
- b. Assignment



Object and Variables

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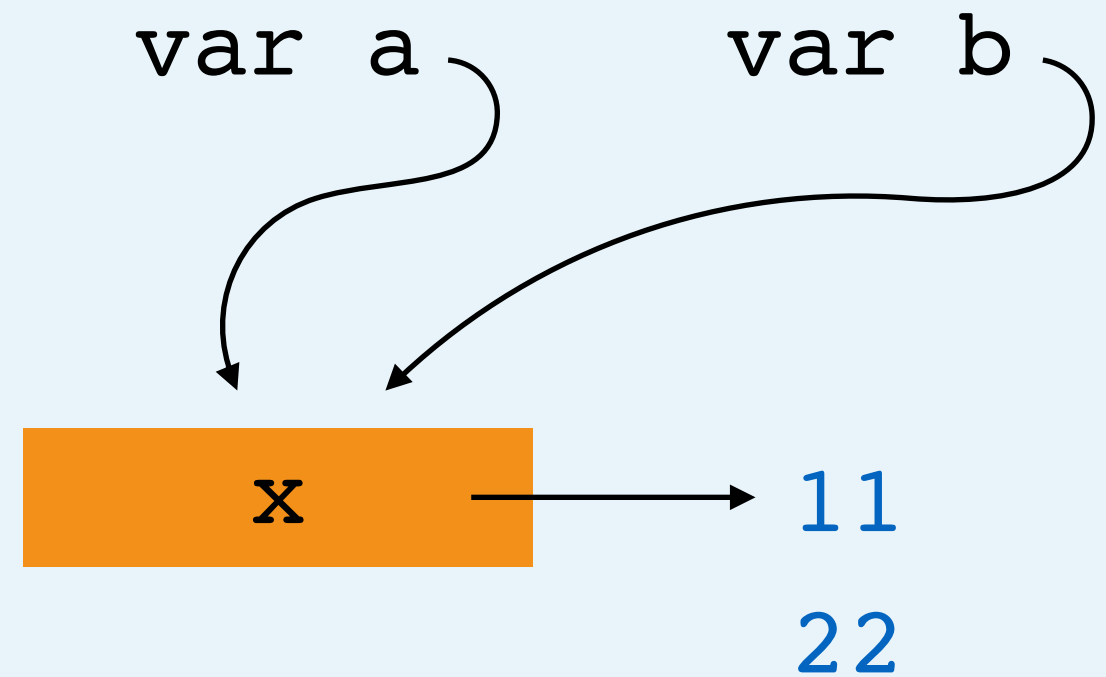
- a. Assignment
 - a. Evaluate right side
 - a. Look up value of “a” (it’s an object!)
 - b. Create var “b”, point to value of right side
- b. Assignment
 - a. Evaluate right side (create value)



Object and Variables

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var a = { x: 11 }  
var b = a  
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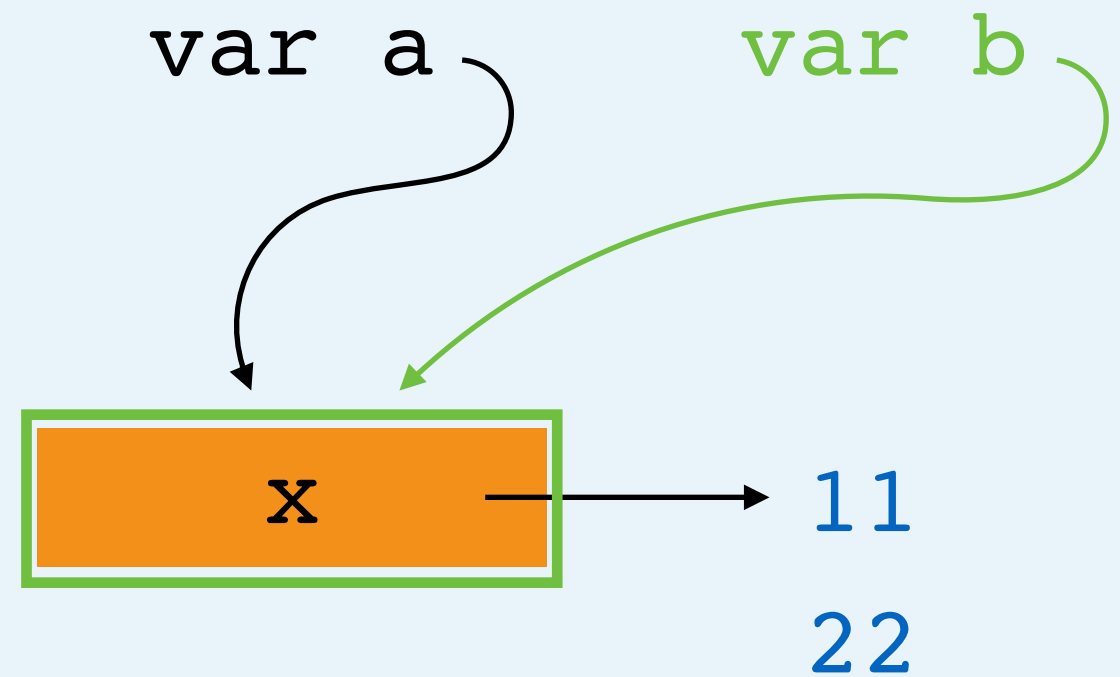
- a. Assignment
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 - a. Look up value of “a” (it’s an object!)
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- b. Assignment
 - a. Evaluate right side (create value)
 - b. Object member assignment



Object and Variables

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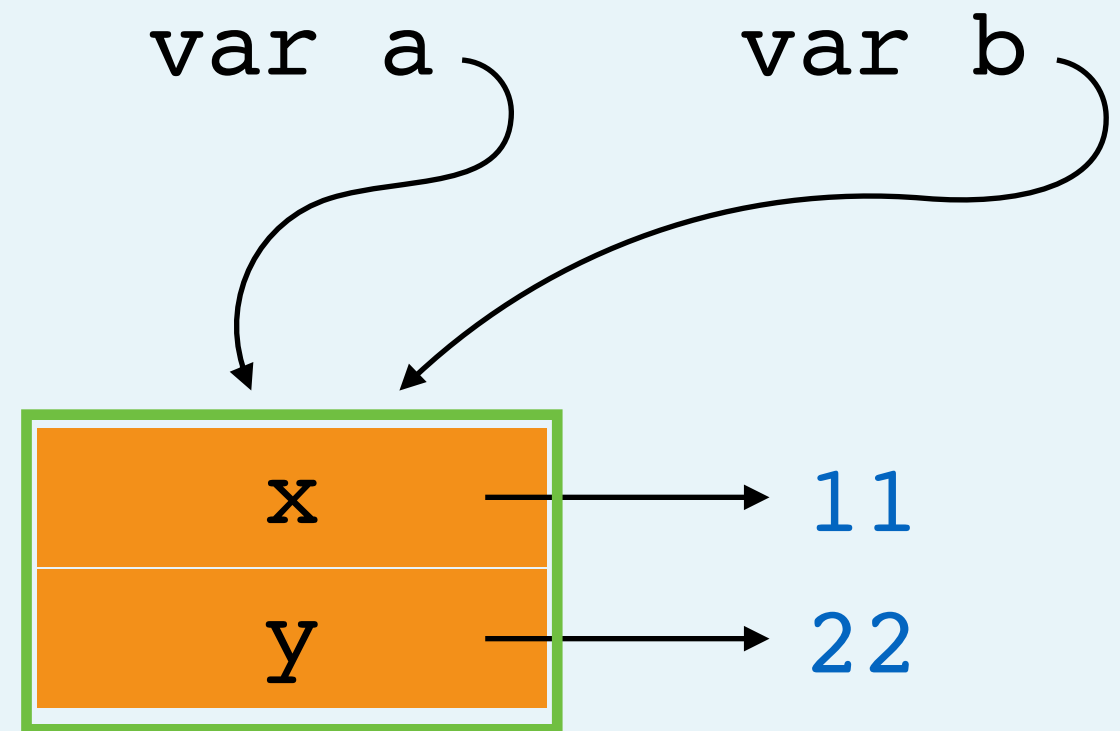
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 - a. Look up value of “b” (it’s an object!)



Object and Variables

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var a = { x: 11 }  
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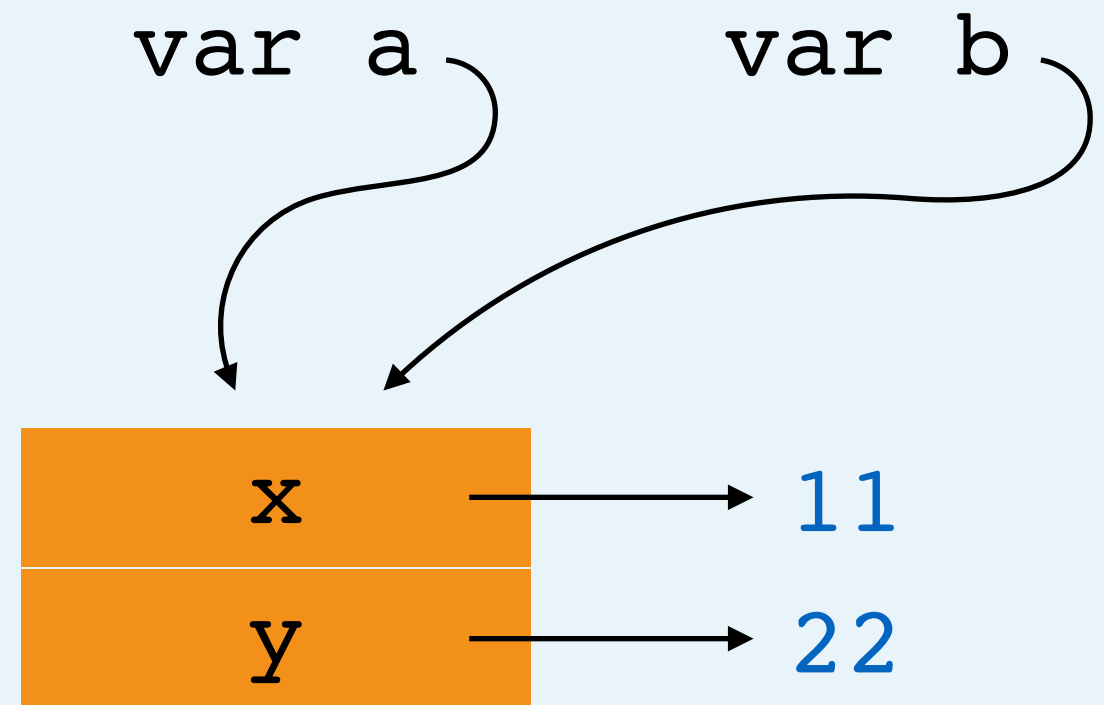
- a. Assignment
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- b. Assignment
 - a. Evaluate right side (create value)
 - b. Object member assignment
 - a. Look up value of “b” (it’s an object!)
 - b. Set property “y” to value of right side



Object and Variables

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var a = { x: 11 }  
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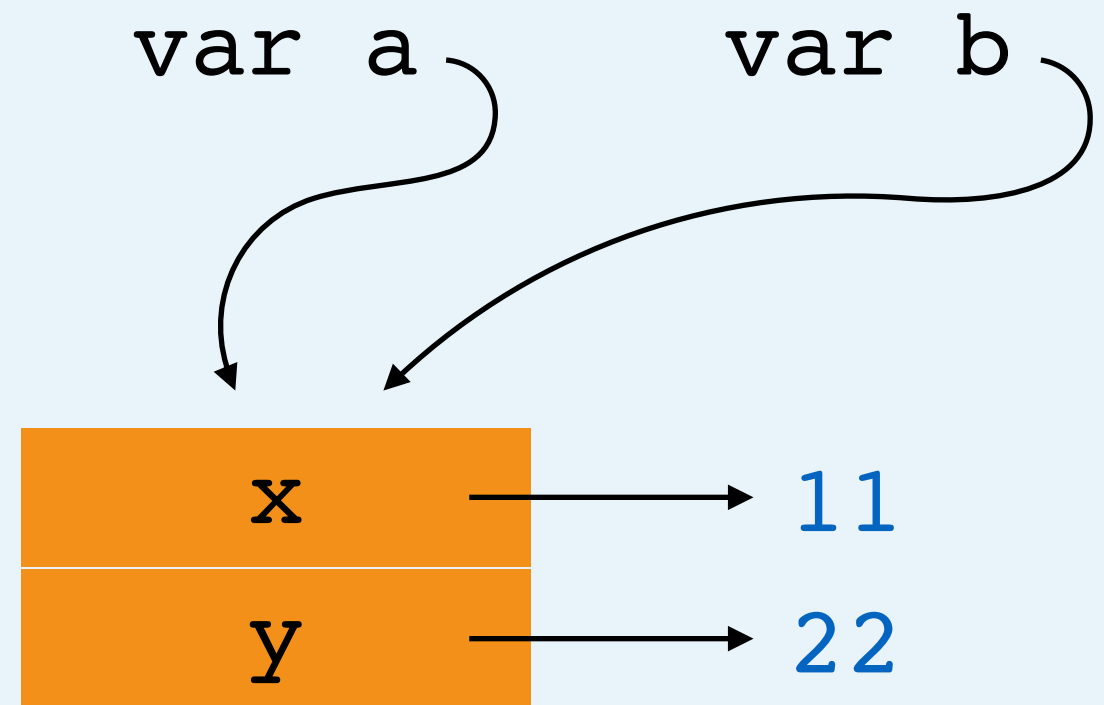
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- b. Assignment
 - a. Evaluate right side (create value)
 - b. Object member assignment
 - a. Look up value of “b” (it’s an object!)
 - b. Set property “y” to value of right side
- c. Assignment



Object and Variables

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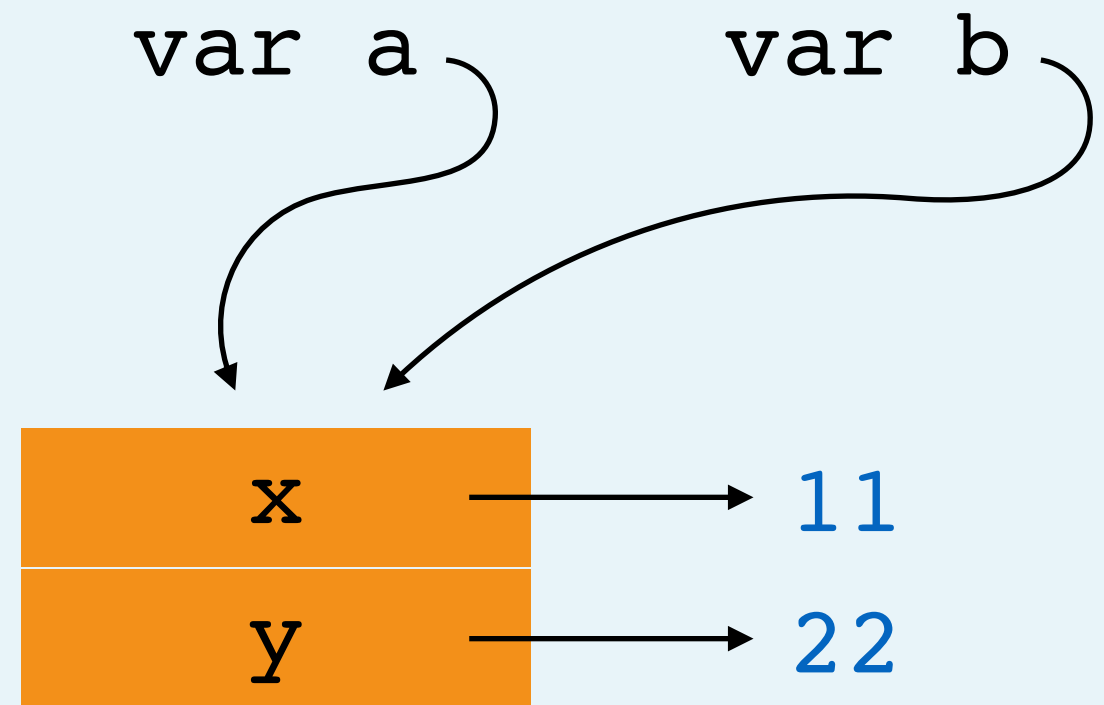
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- b. Assignment
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 - a. Look up value of “b” (it’s an object!)
 - b. Set property “y” to value of right side
- c. Assignment
 - a. Evaluate right side



Object and Variables

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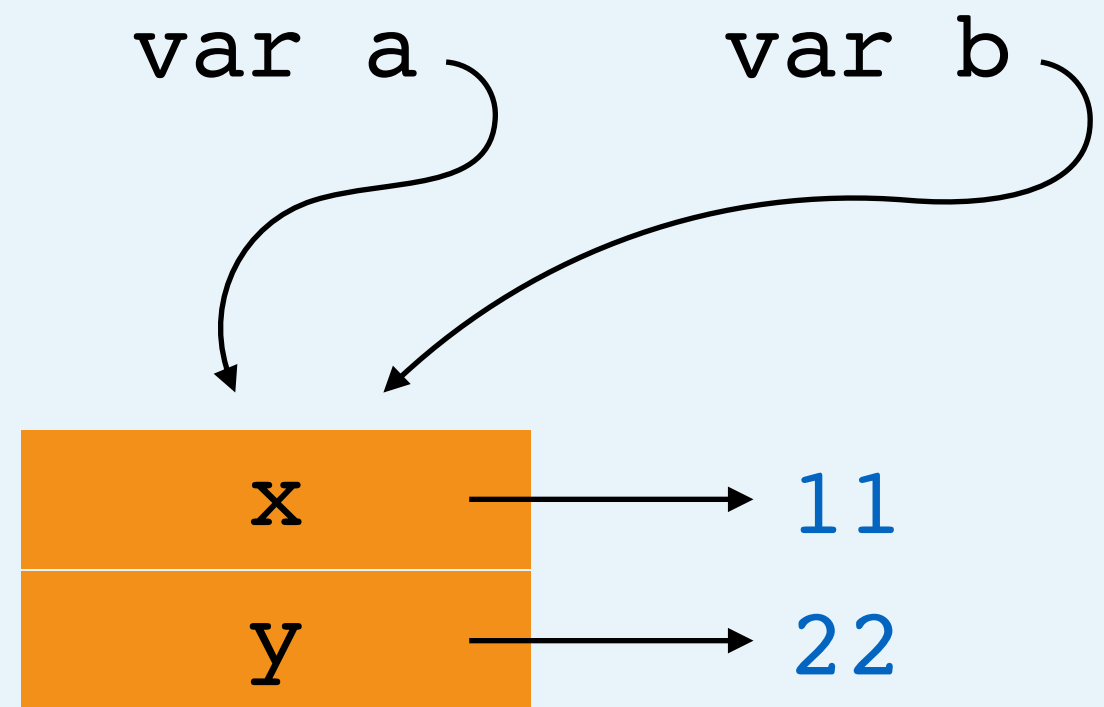
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 - b. Object member assignment
 - a. Look up value of “b” (it’s an object!)
 - b. Set property “y” to value of right side
- c. Assignment
 - a. Evaluate right side
 - a. Binary operation



Object and Variables

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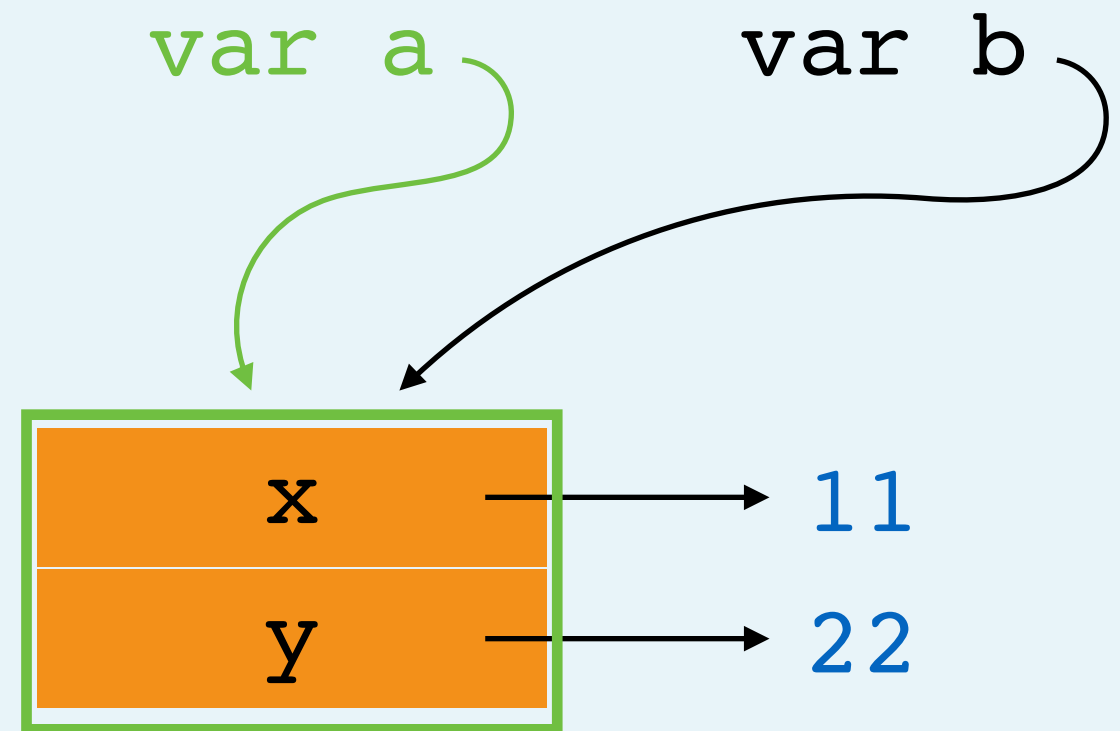
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 - b. Object member assignment
 - a. Look up value of “b” (it’s an object!)
 - b. Set property “y” to value of right side
- c. Assignment
 - a. Evaluate right side
 - a. Binary operation
 - a. Object member expression



Object and Variables

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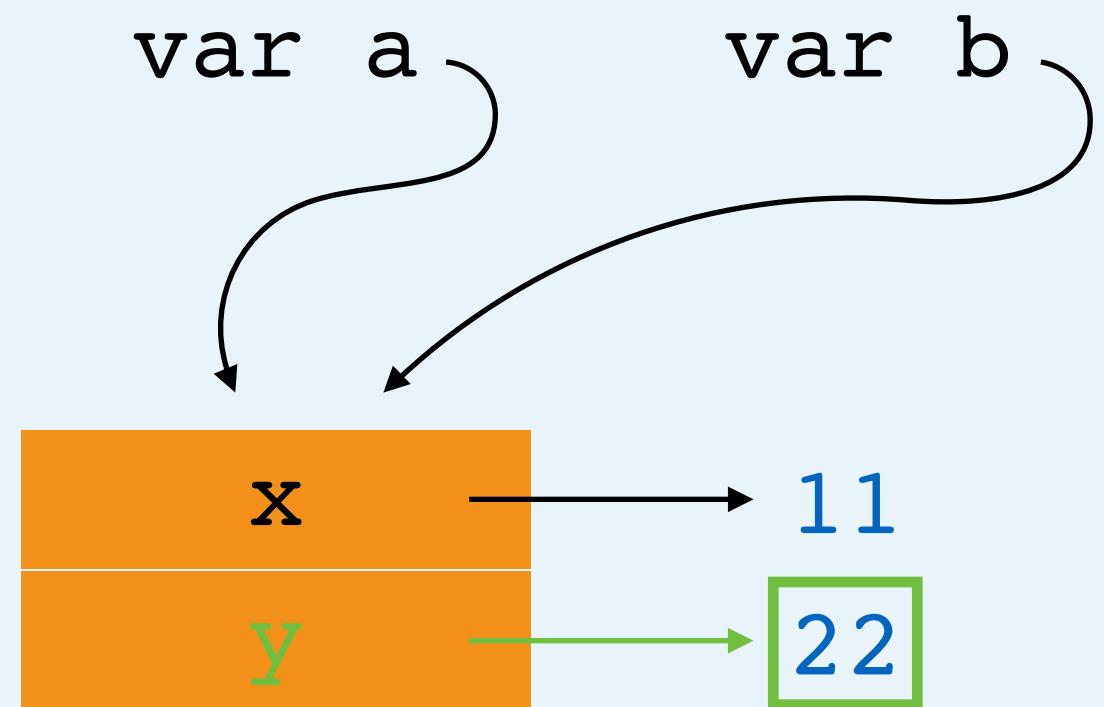
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 - a. Evaluate right side (create value)
 - b. Object member assignment
 - a. Look up value of “b” (it’s an object!)
 - b. Set property “y” to value of right side
- c. Assignment
 - a. Evaluate right side
 - a. Binary operation
 - a. Object member expression
 - a. Look up value of variable “a”



Object and Variables

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var b = a  
b.y = 22  
a.z = a.y + 11
```

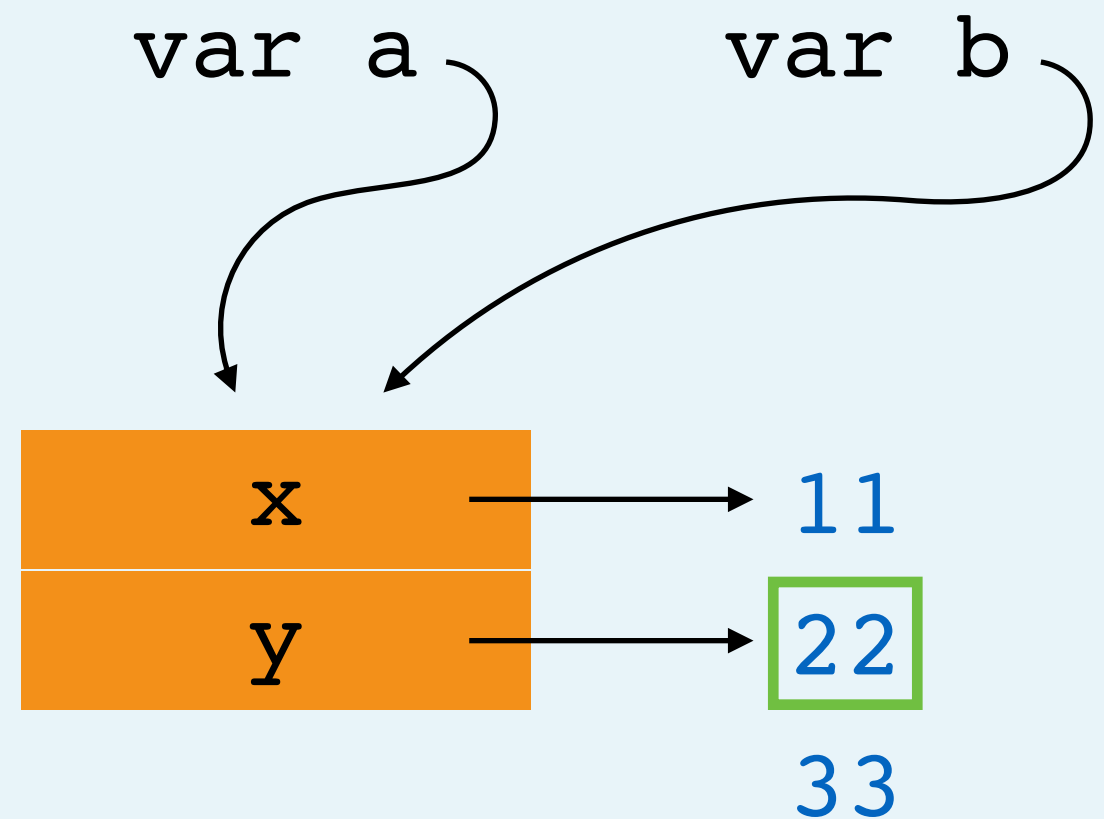
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- c. Assignment
 - a. Evaluate right side
 - a. Binary operation
 - a. Object member expression
 - a. Look up value of variable “a”
 - b. Look up value of property “y”



Object and Variables

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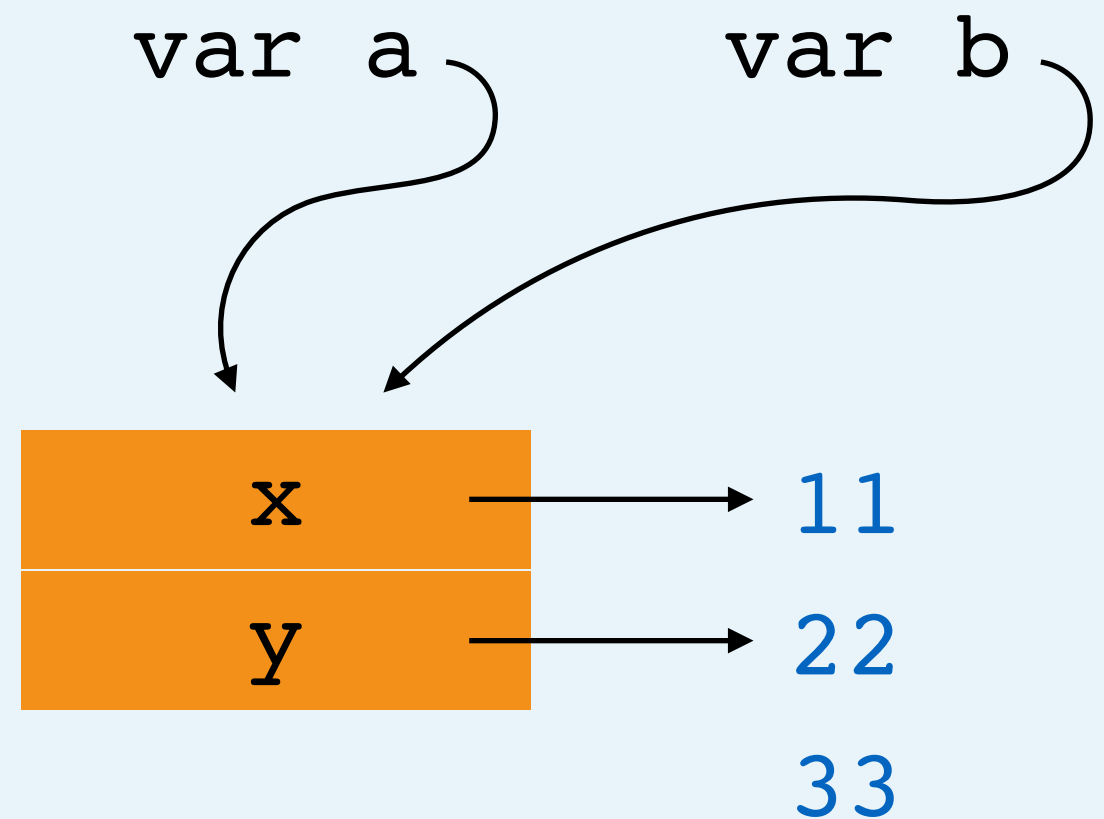
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 - a. Evaluate right side
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 - a. Object member expression
 - a. Look up value of variable “a”
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 - b. Create value



Object and Variables

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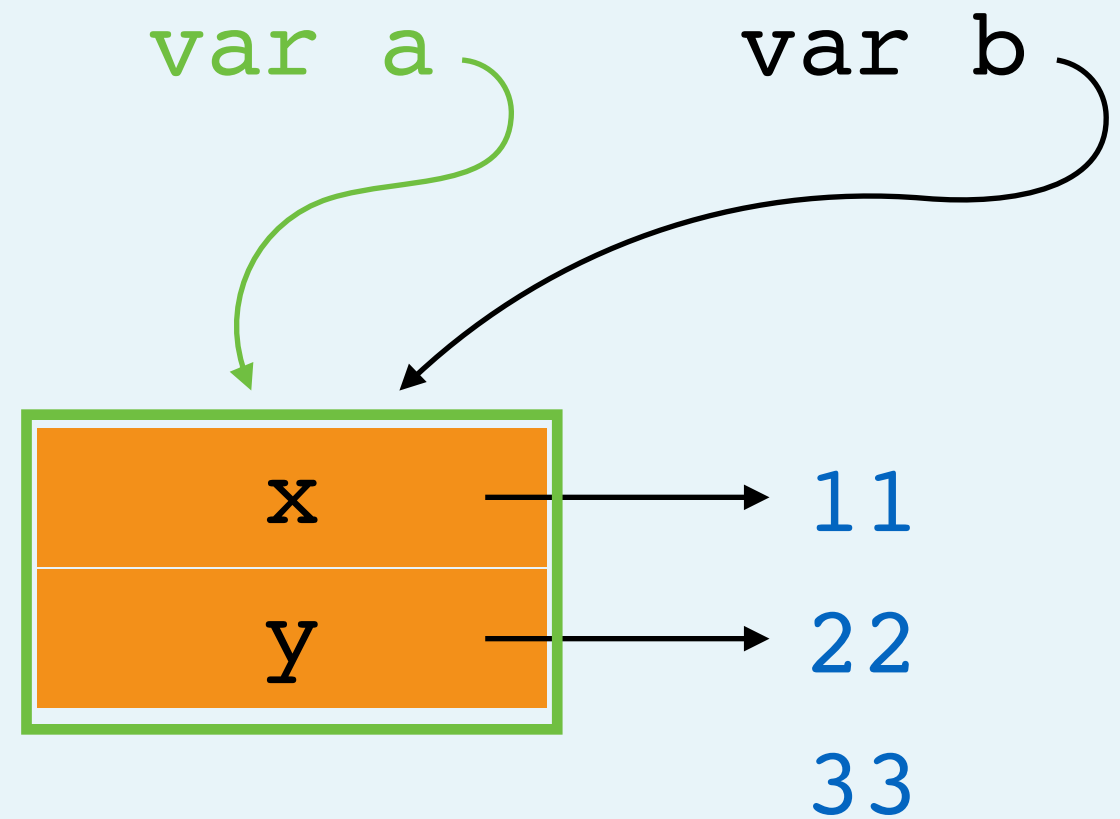
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- b. Assignment
 - a. Evaluate right side (create value)
 - b. Object member assignment
 - a. Look up value of “b” (it’s an object!)
 - b. Set property “y” to value of right side
- c. Assignment
 - a. Evaluate right side
 - a. Binary operation
 - a. Object member expression
 - a. Look up value of variable “a”
 - b. Look up value of property “y”
 - b. Create value
 - b. Object member assignment



Object and Variables

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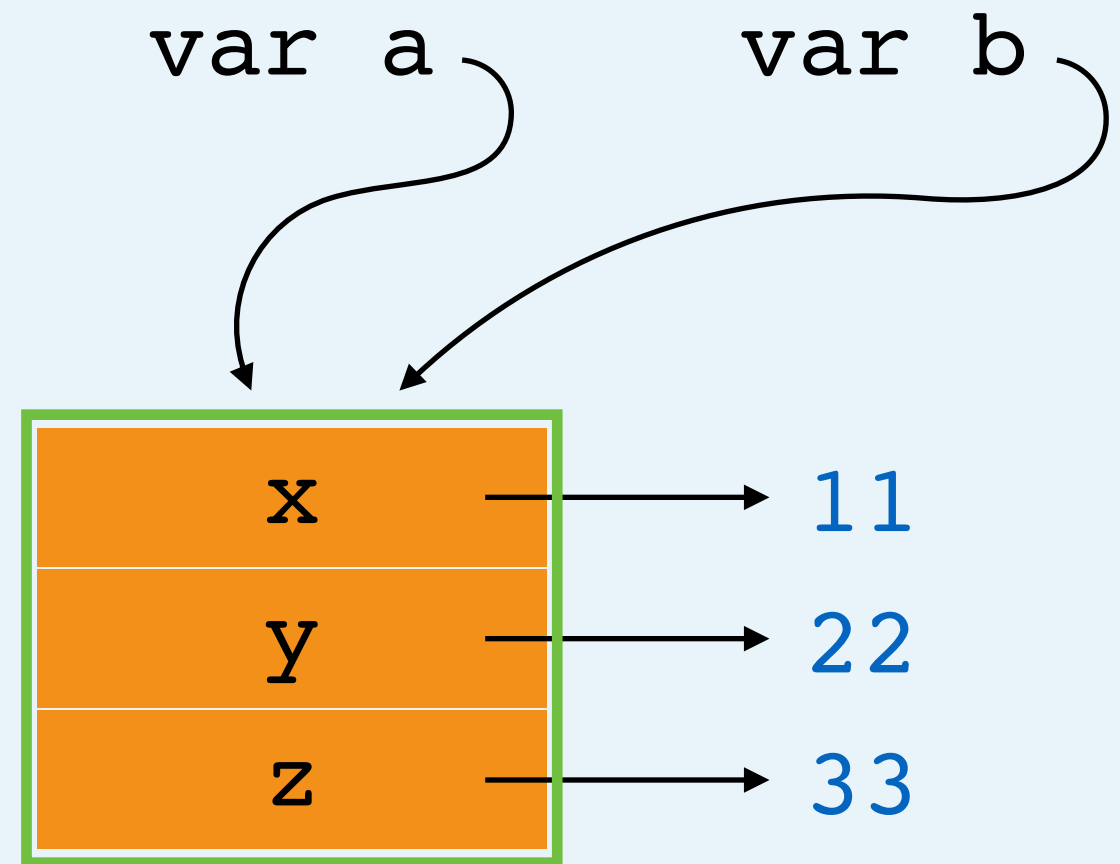
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- b. Assignment
 - a. Evaluate right side (create value)
 - b. Object member assignment
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 - b. Set property “y” to value of right side
- c. Assignment
 - a. Evaluate right side
 - a. Binary operation
 - a. Object member expression
 - a. Look up value of variable “a”
 - b. Look up value of property “y”
 - b. Create value
 - b. Object member assignment
 - a. Look up value of variable “a”



Object and Variables

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var a = { x: 11 }  
var b = a  
b.y = 22  
a.z = a.y + 11
```

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 - b. Create var “b”, point to value of right side
- b. Assignment
 - a. Evaluate right side (create value)
 - b. Object member assignment
 - a. Look up value of “b” (it’s an object!)
 - b. Set property “y” to value of right side
- c. Assignment
 - a. Evaluate right side
 - a. Binary operation
 - a. Object member expression
 - a. Look up value of variable “a”
 - b. Look up value of property “y”
 - b. Create value
 - b. Object member assignment
 - a. Look up value of variable “a”
 - b. Set property “z” to value of right side

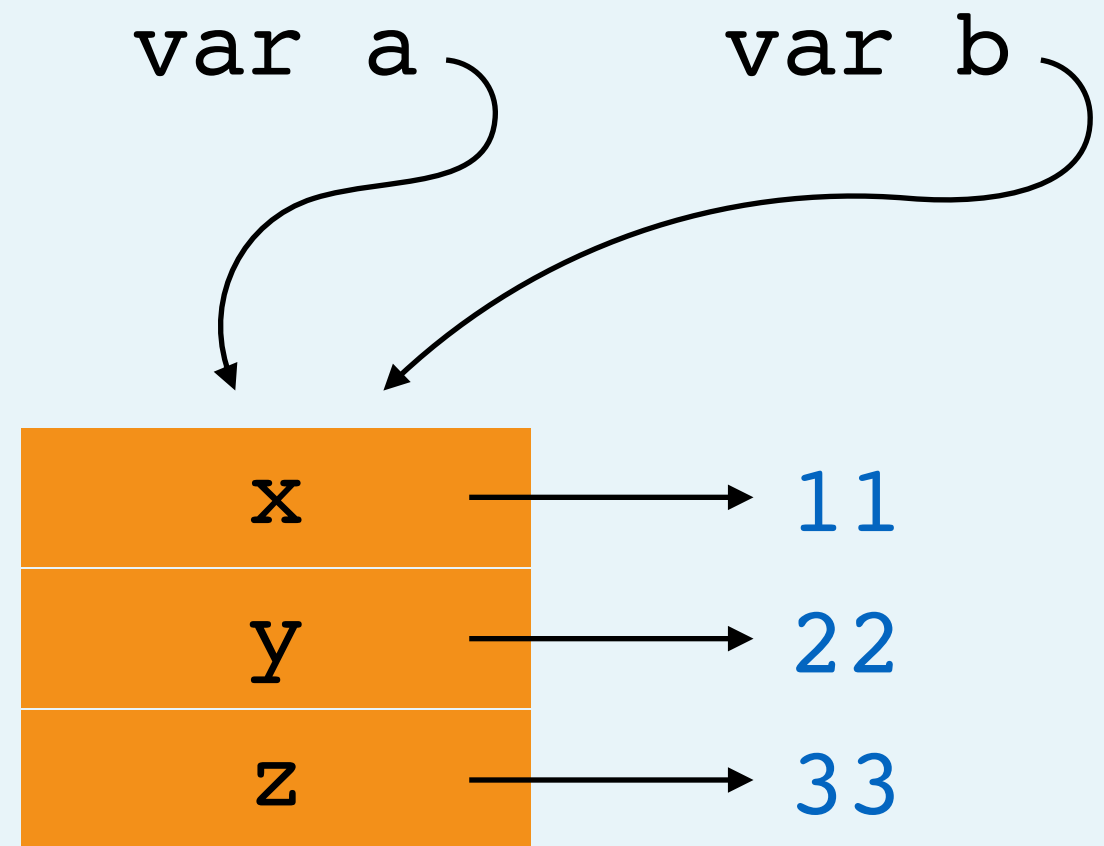


Object and Variables

```
var a = { x: 11 }  
var b = a  
b.y = 22  
a.z = a.y + 11
```

All Done!

- a. Assignment
 - a. Evaluate right side
 - a. Look up value of “a” (it’s an object!)
 - b. Create var “b”, point to value of right side
- b. Assignment
 - a. Evaluate right side (create value)
 - b. Object member assignment
 - a. Look up value of “b” (it’s an object!)
 - b. Set property “y” to value of right side
- c. Assignment
 - a. Evaluate right side
 - a. Binary operation
 - a. Object member expression
 - a. Look up value of variable “a”
 - b. Look up value of property “y”
 - b. Create value
 - b. Object member assignment
 - a. Look up value of variable “a”
 - b. Set property “z” to value of right side



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

a. Assignment

Nested Objects

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var obj = {  
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  },  
  y: 22  
}
```

- a. Assignment
 - a. Evaluate right side

Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

- a. Assignment
 - a. Evaluate right side
 - a. Create object



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create Object



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create Object
 - a. Property Assignment



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create Object
 - a. Property Assignment
 - a. Evaluate right side (create value)

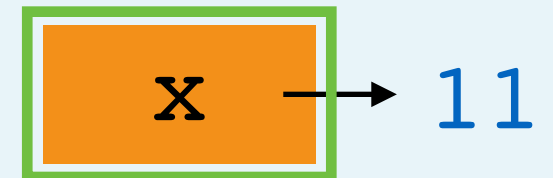


11

Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

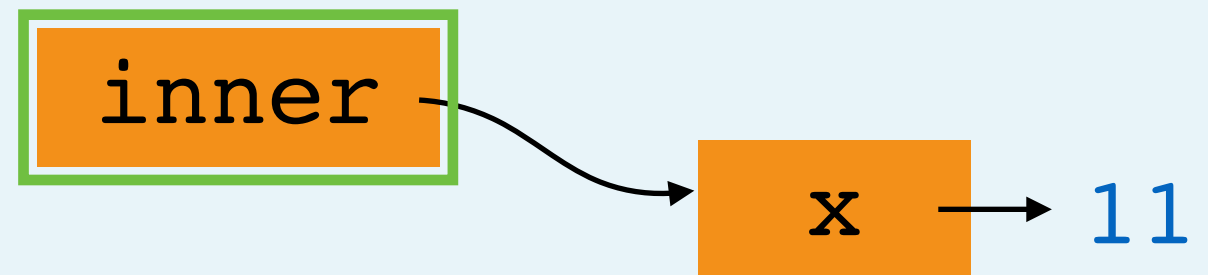
- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create Object
 - a. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop "x", point to value



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

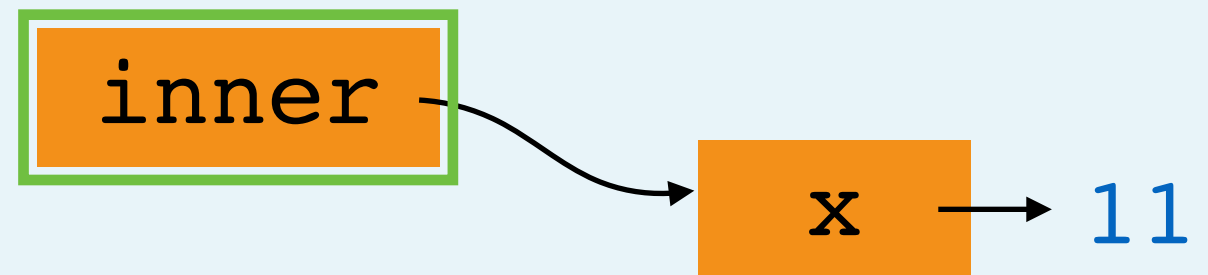
- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create Object
 - a. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop "x", point to value
 - b. Create prop "inner", point to value



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

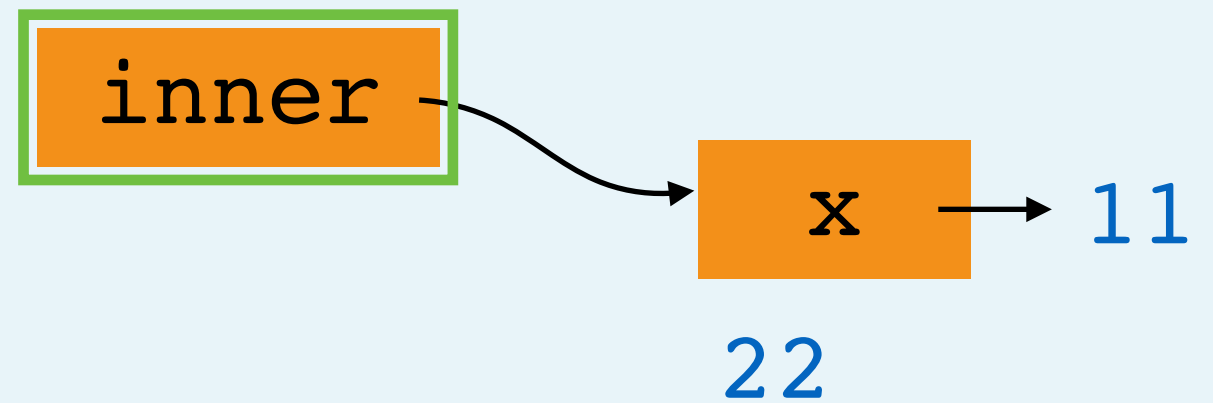
- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create Object
 - a. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop "x", point to value
 - b. Create prop "inner", point to value
 - b. Property Assignment



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

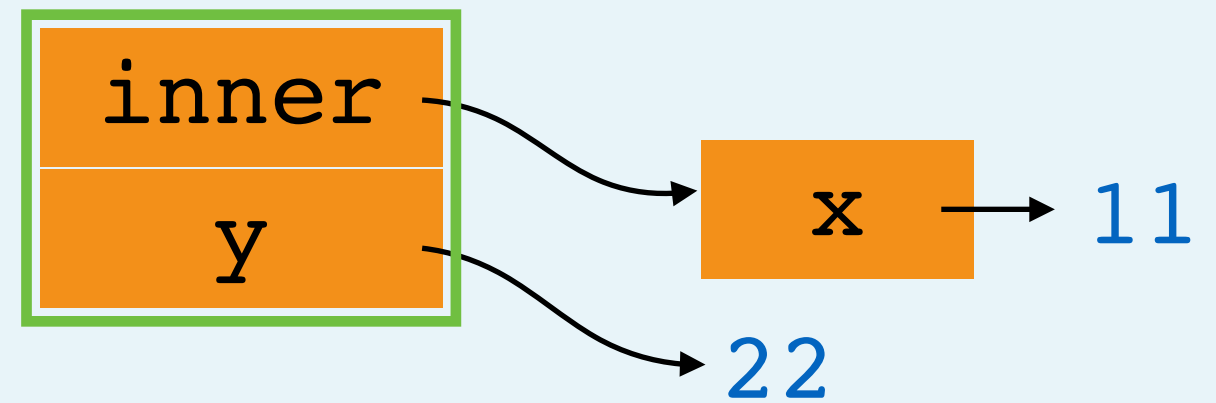
- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create Object
 - a. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop "x", point to value
 - b. Create prop "inner", point to value
 - b. Property Assignment
 - a. Evaluate right side (create value)



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

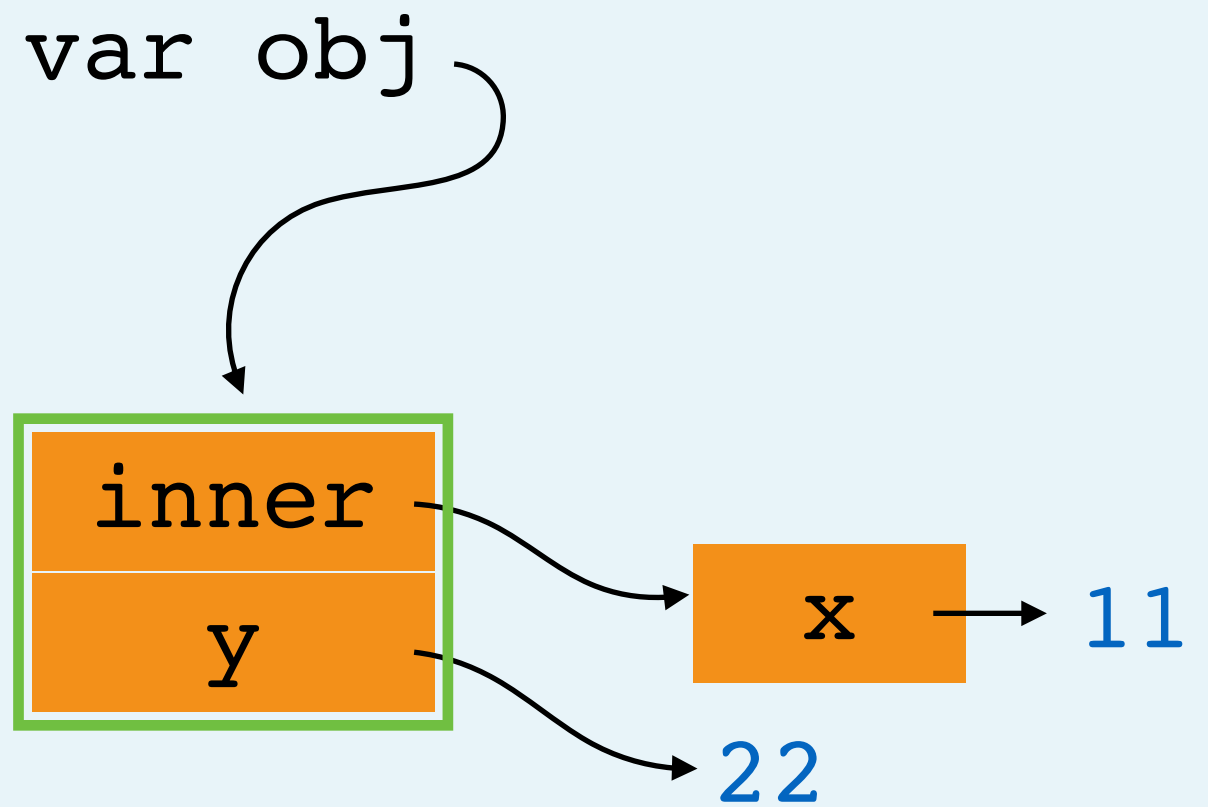
- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create Object
 - a. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop "x", point to value
 - b. Create prop "inner", point to value
 - b. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop y, point to value



Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create Object
 - a. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop "x", point to value
 - b. Create prop "inner", point to value
 - b. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop y, point to value
 - b. Create var obj, point to object

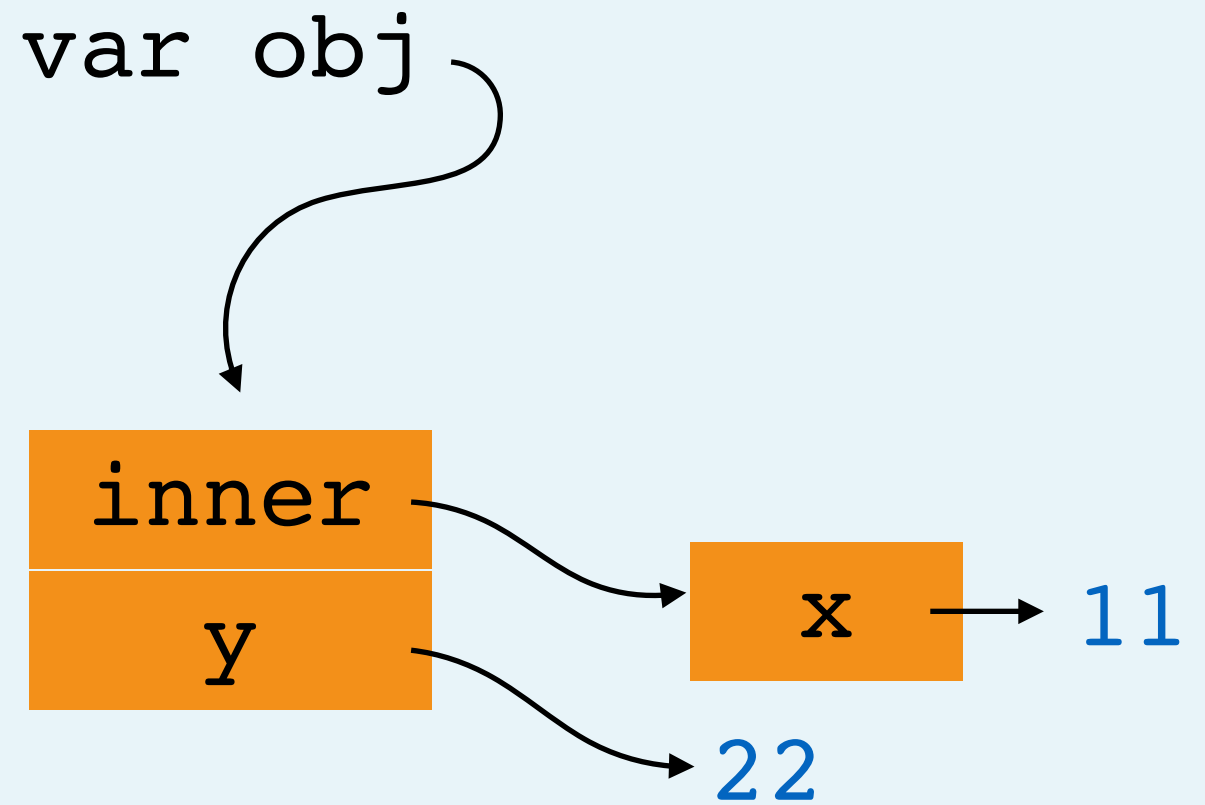


Nested Objects

```
var obj = {  
  inner: {  
    x: 11  
  },  
  y: 22  
}
```

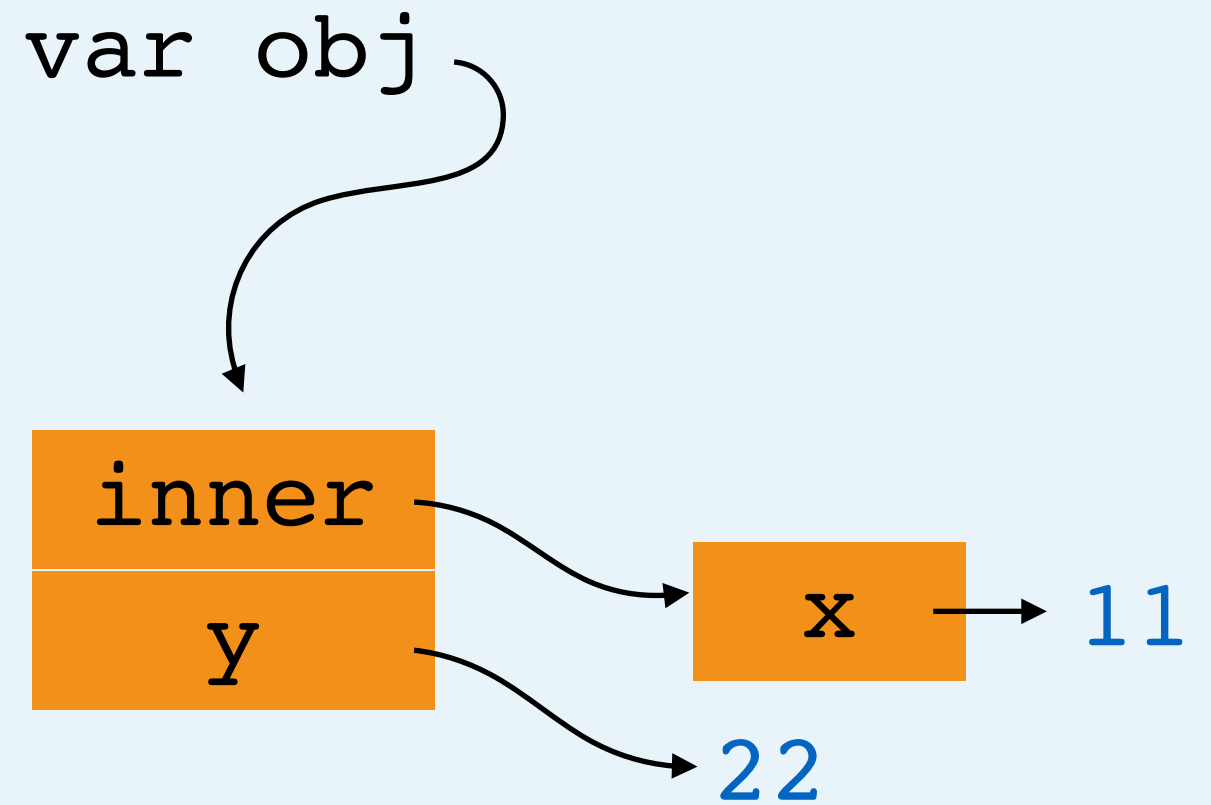
All Done!

- a. Assignment
 - a. Evaluate right side
 - a. Create object
 - a. Property Assignment
 - a. Evaluate right side
 - a. Create Object
 - a. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop "x", point to value
 - b. Create prop "inner", point to value
 - b. Property Assignment
 - a. Evaluate right side (create value)
 - b. Create prop y, point to value
 - b. Create var obj, point to object



Nested Objects (with vars)

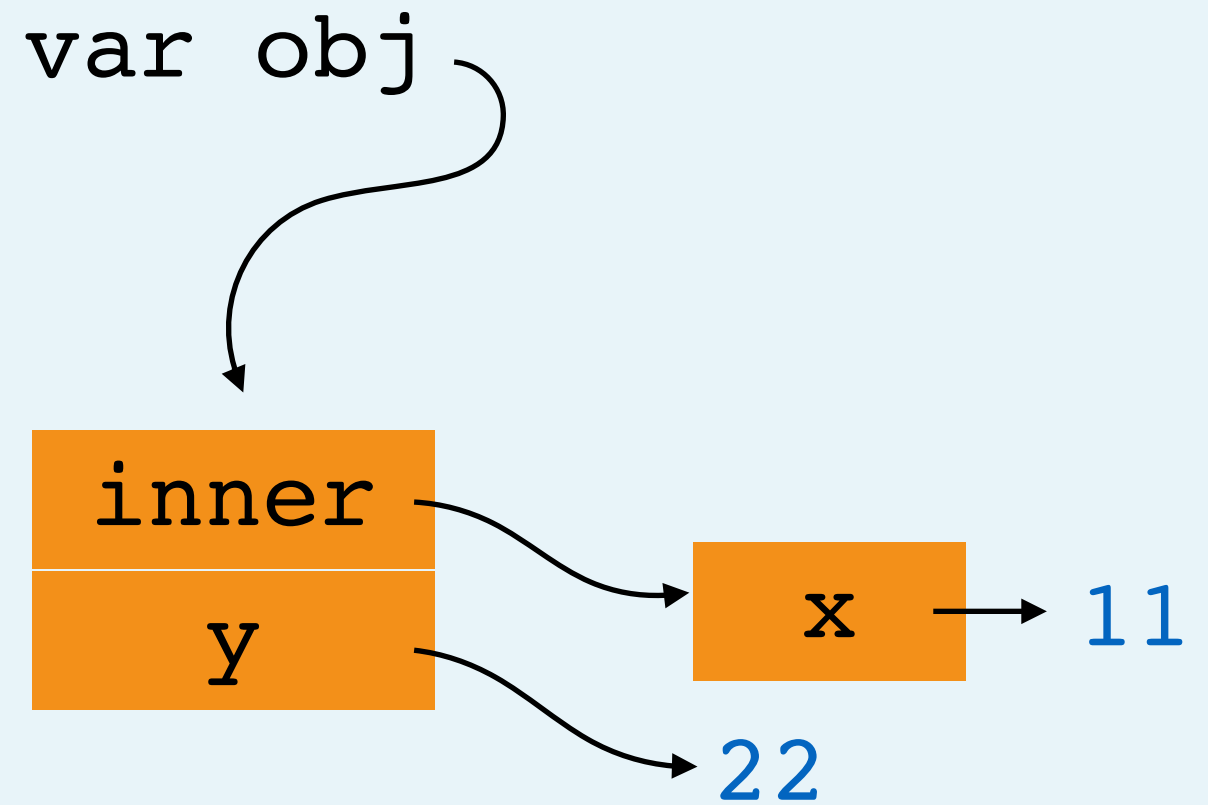
```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner
```



Nested Objects (with vars)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner
```

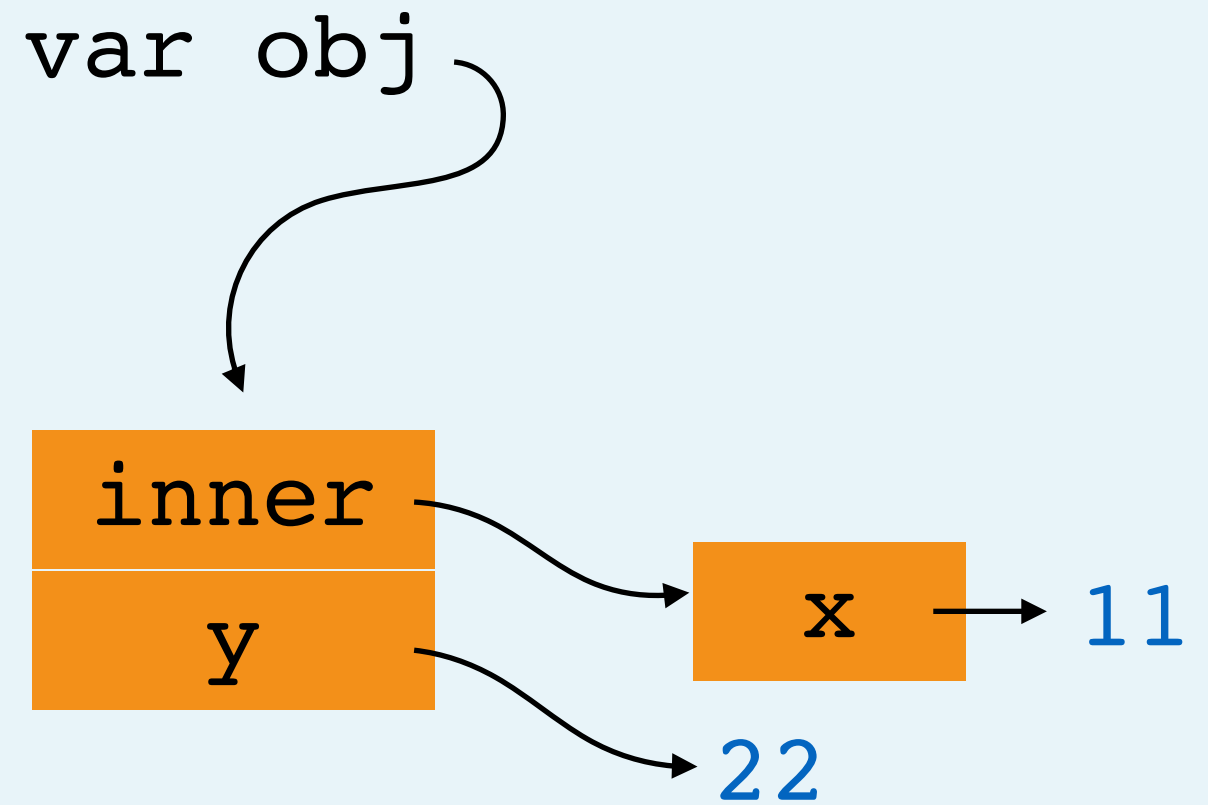
a. Assignment



Nested Objects (with vars)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner
```

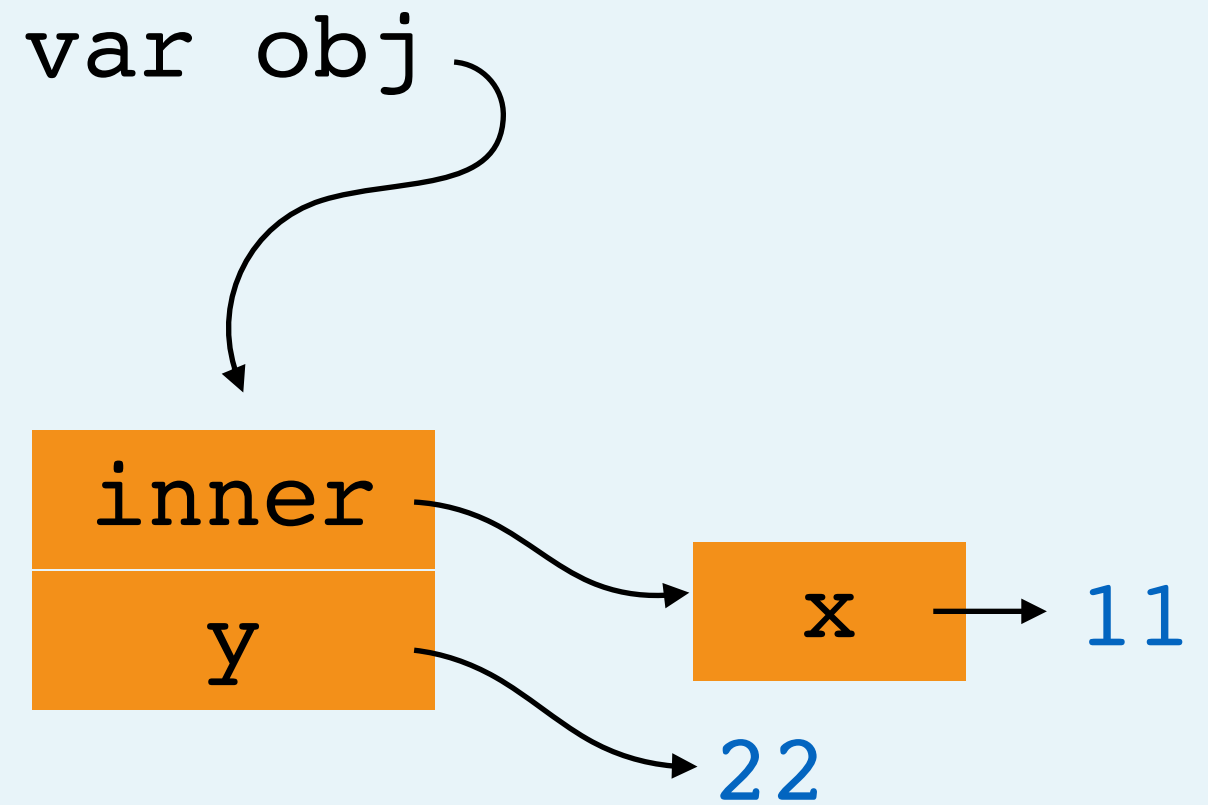
- a. Assignment
 - a. Evaluate right side



Nested Objects (with vars)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner
```

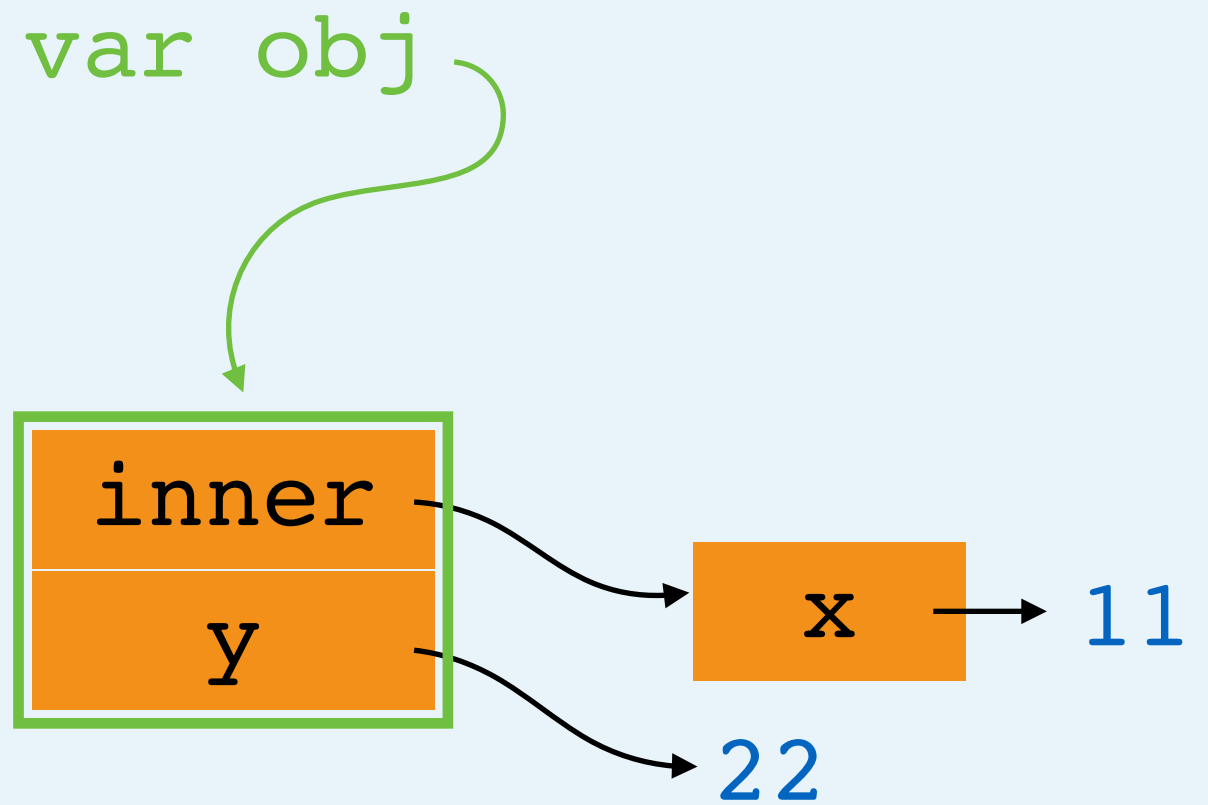
- a. Assignment
 - a. Evaluate right side
 - a. Object member expression



Nested Objects (with vars)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner
```

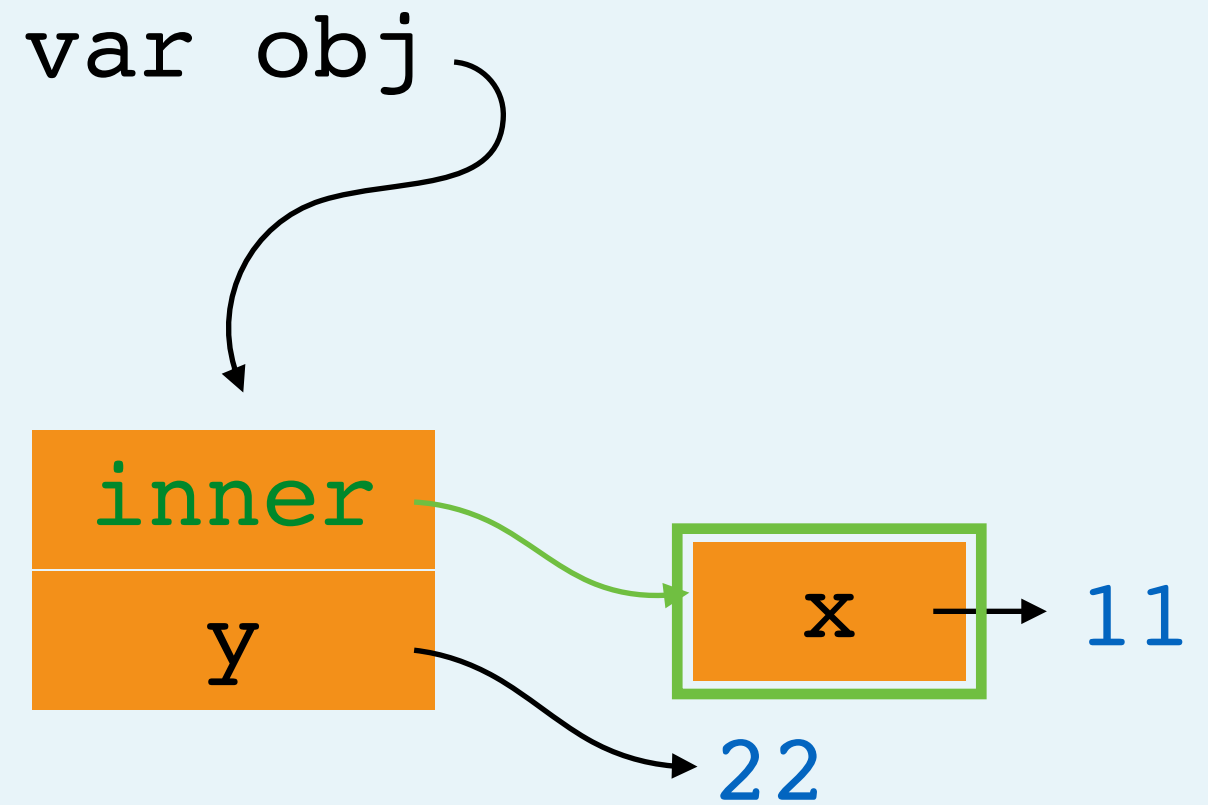
- a. Assignment
 - a. Evaluate right side
 - a. Object member expression
 - a. Look up value of variable "obj"



Nested Objects (with vars)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner
```

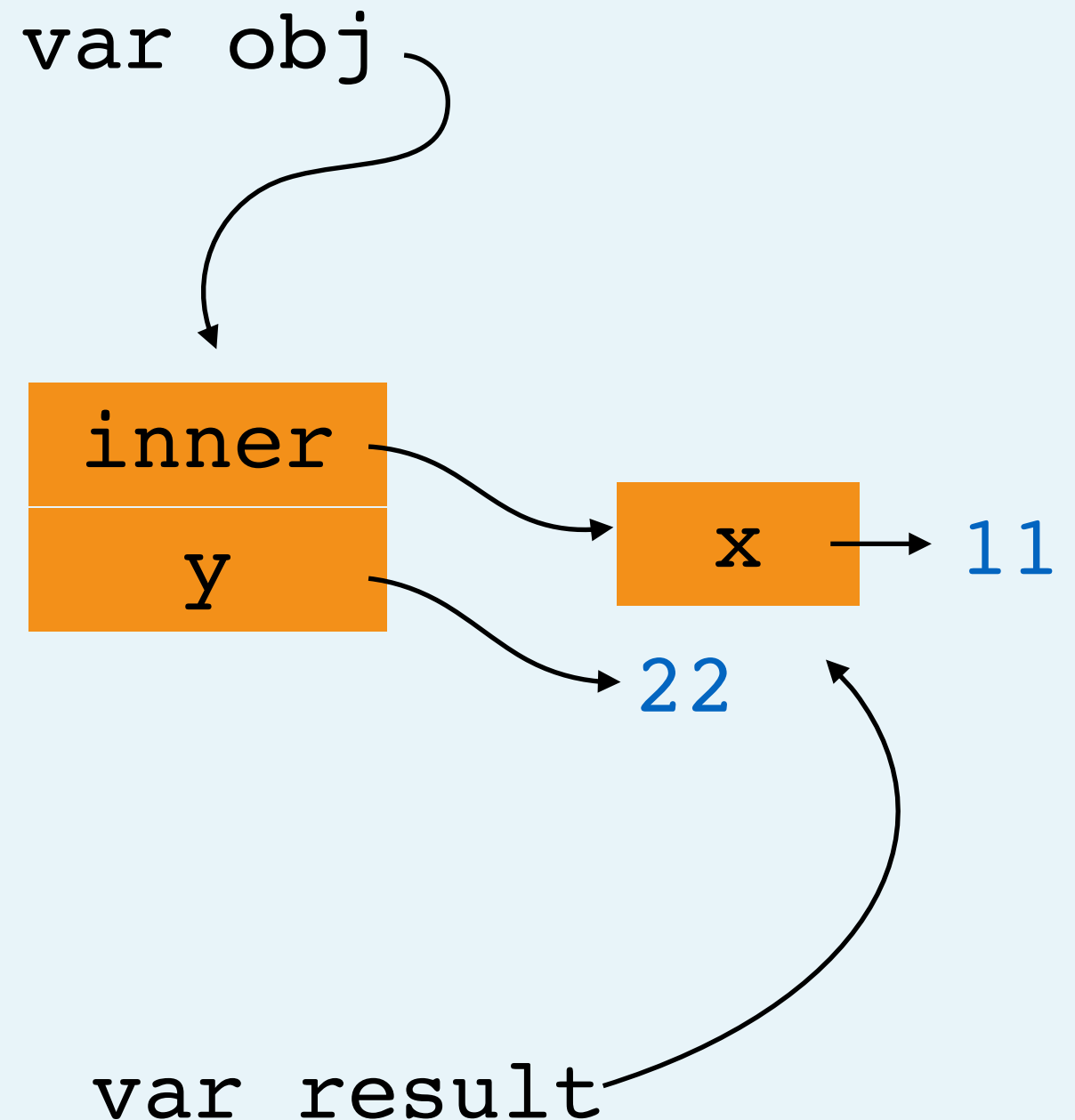
- a. Assignment
 - a. Evaluate right side
 - a. Object member expression
 - a. Look up value of variable "obj"
 - b. Look up value of property "inner"



Nested Objects (with vars)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner
```

- a. Assignment
 - a. Evaluate right side
 - a. Object member expression
 - a. Look up value of variable "obj"
 - b. Look up value of property "inner"
 - b. Create var "result", point to value of right side

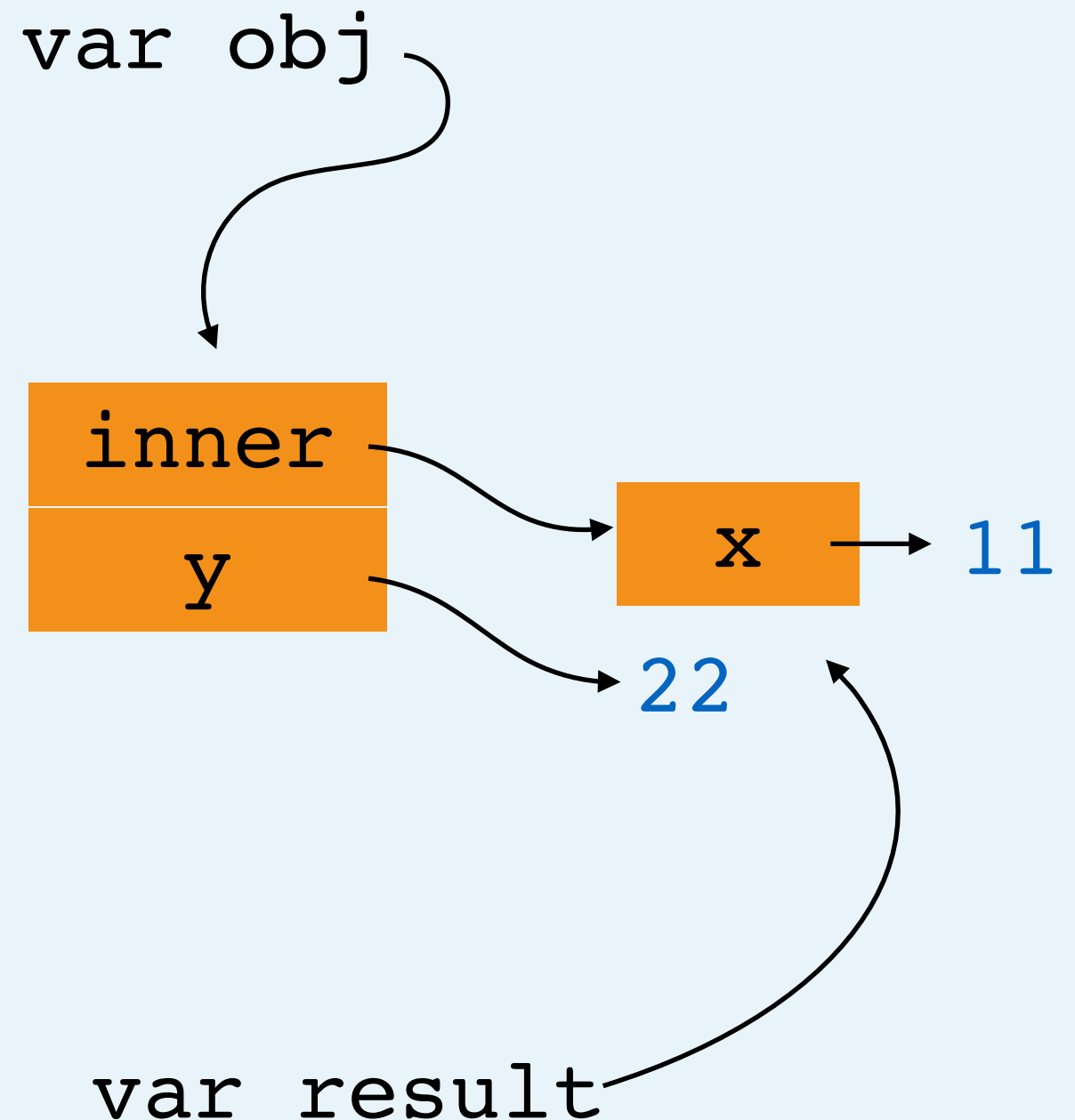


Nested Objects (with vars)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner
```

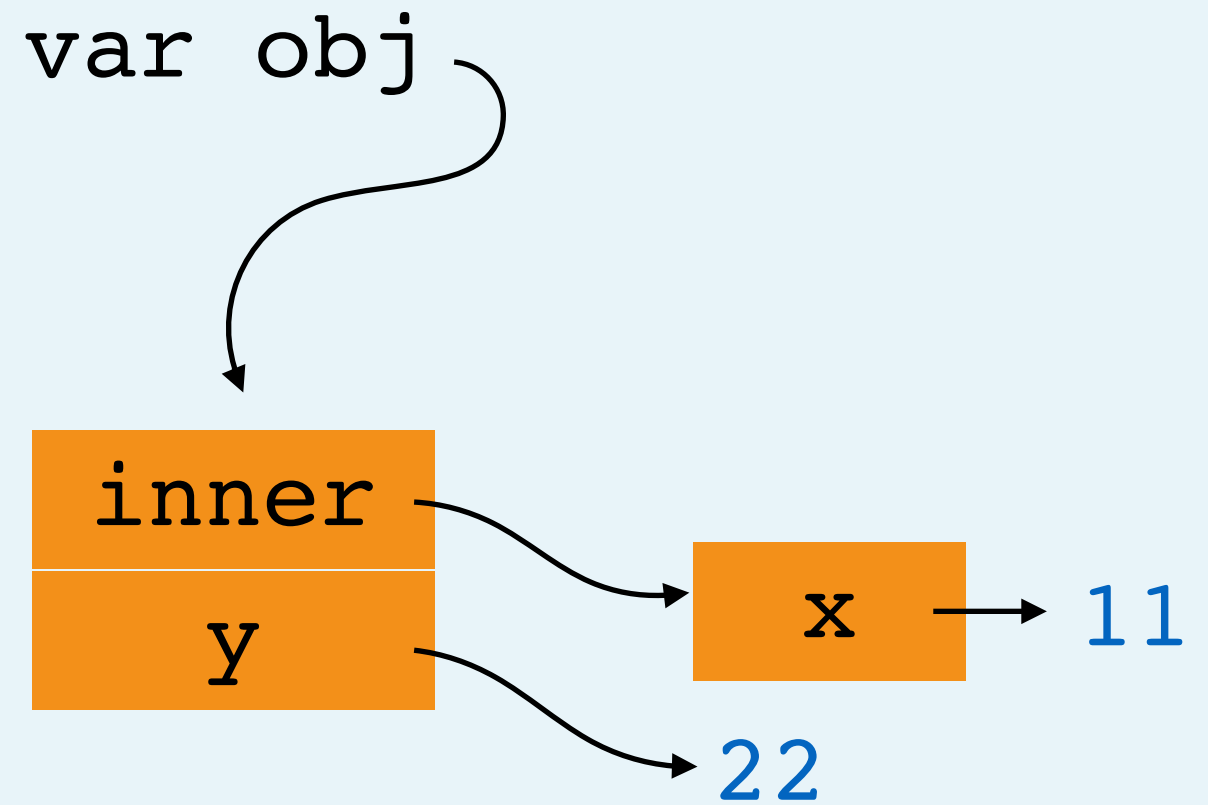
All Done!

- a. Assignment
 - a. Evaluate right side
 - a. Object member expression
 - a. Look up value of variable “obj”
 - b. Look up value of property “inner”
 - b. Create var “result”, point to value of right side



Nested Objects (properties)

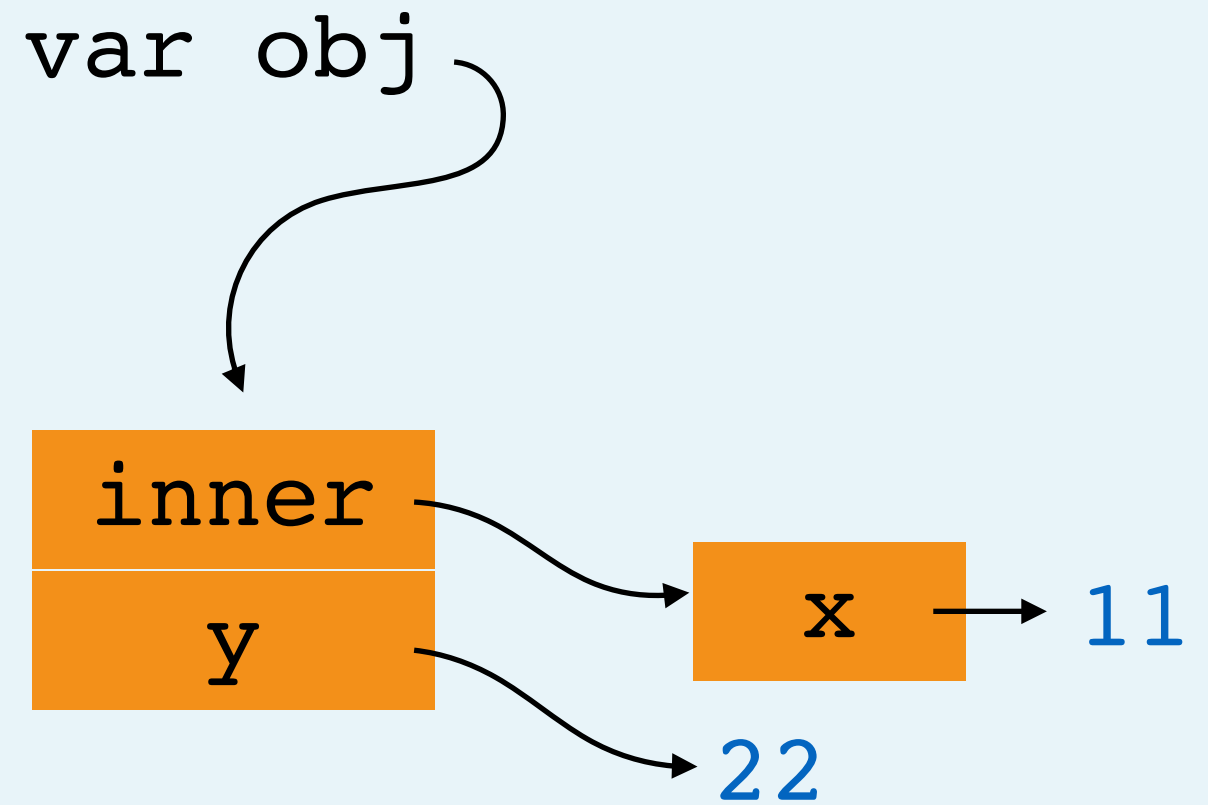
```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

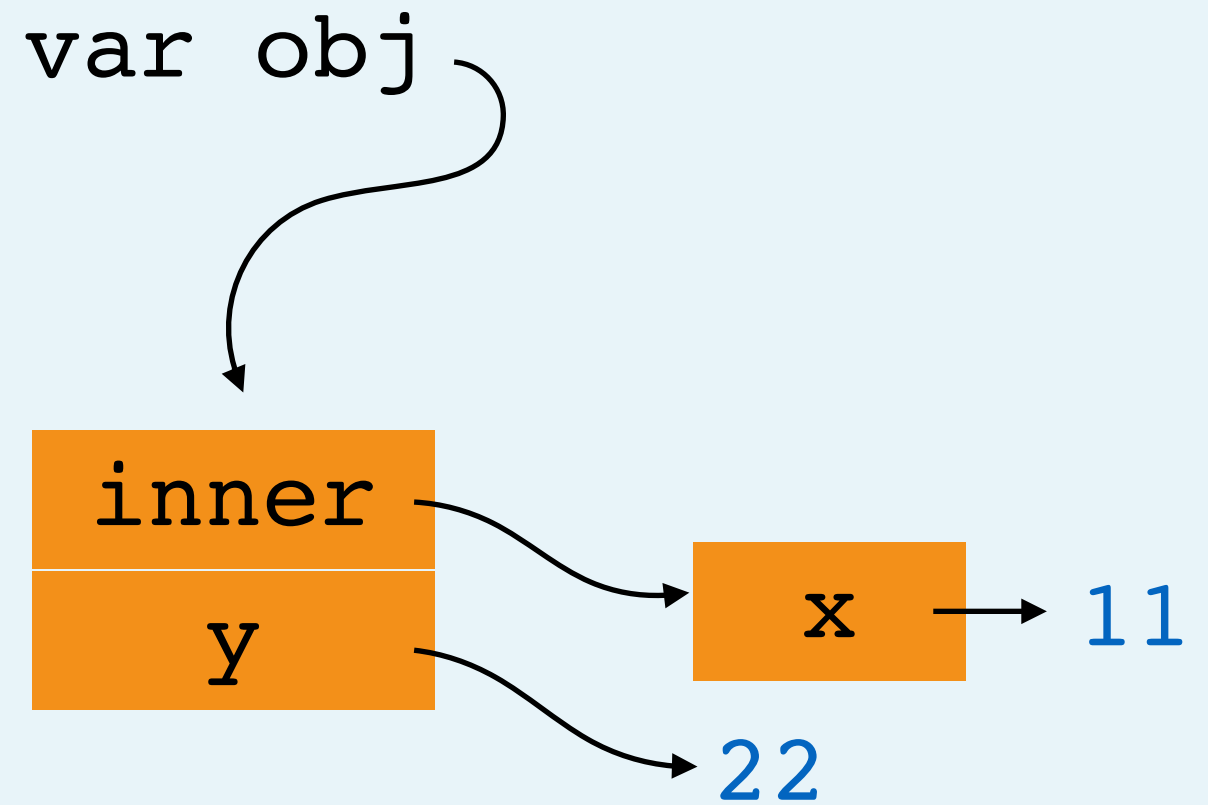
(same as before)



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

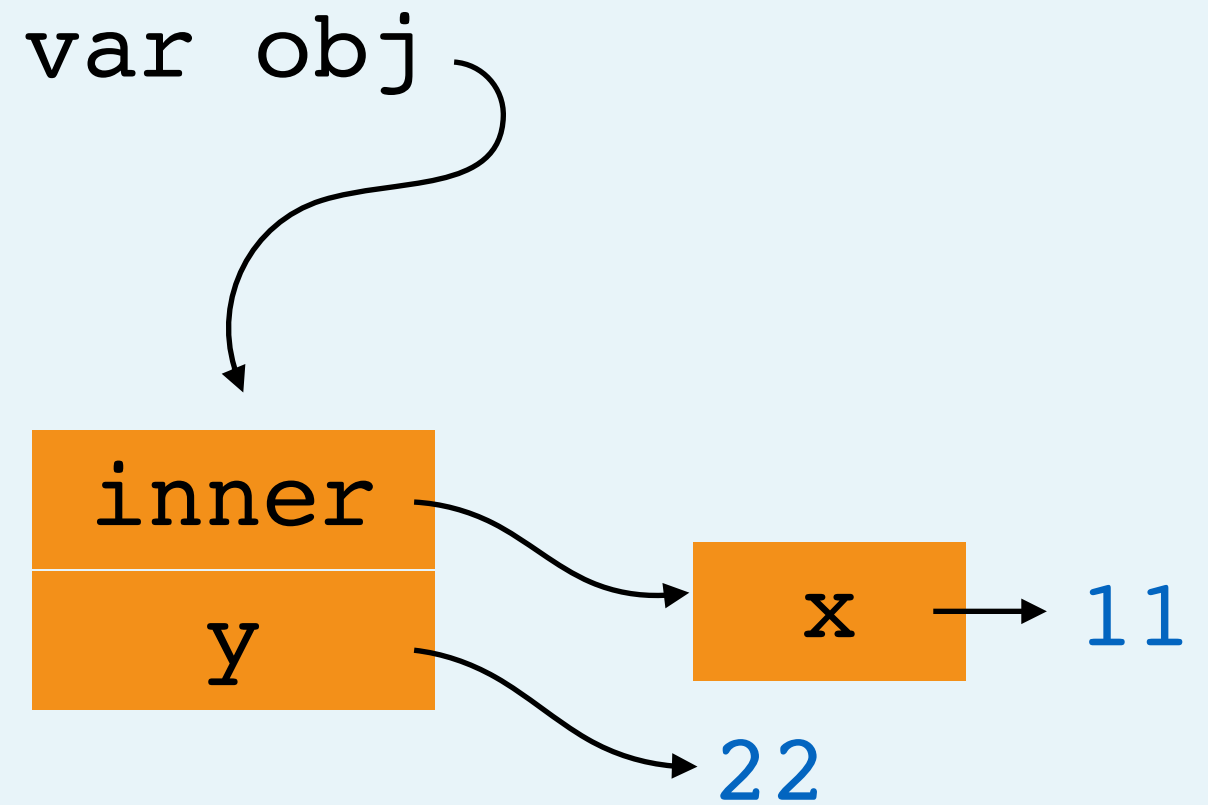
a. Assignment



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

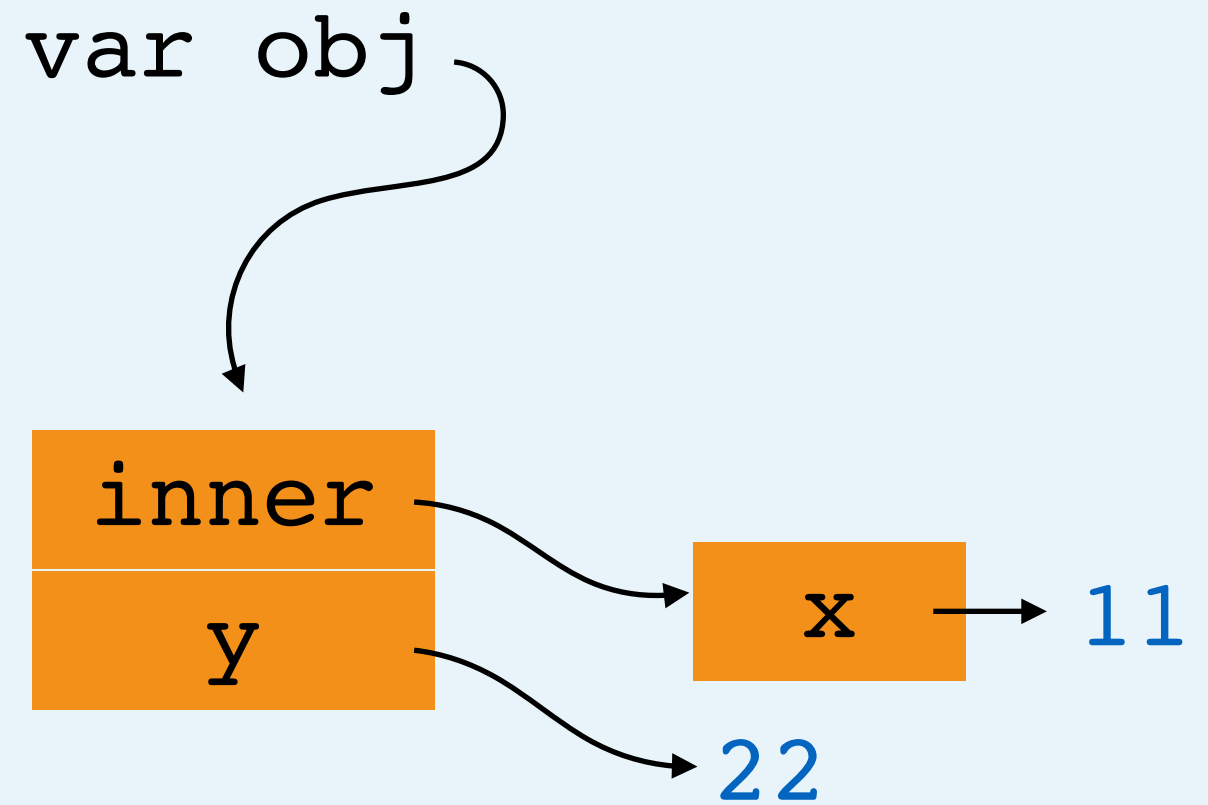
- a. Assignment
 - a. Evaluate right side



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

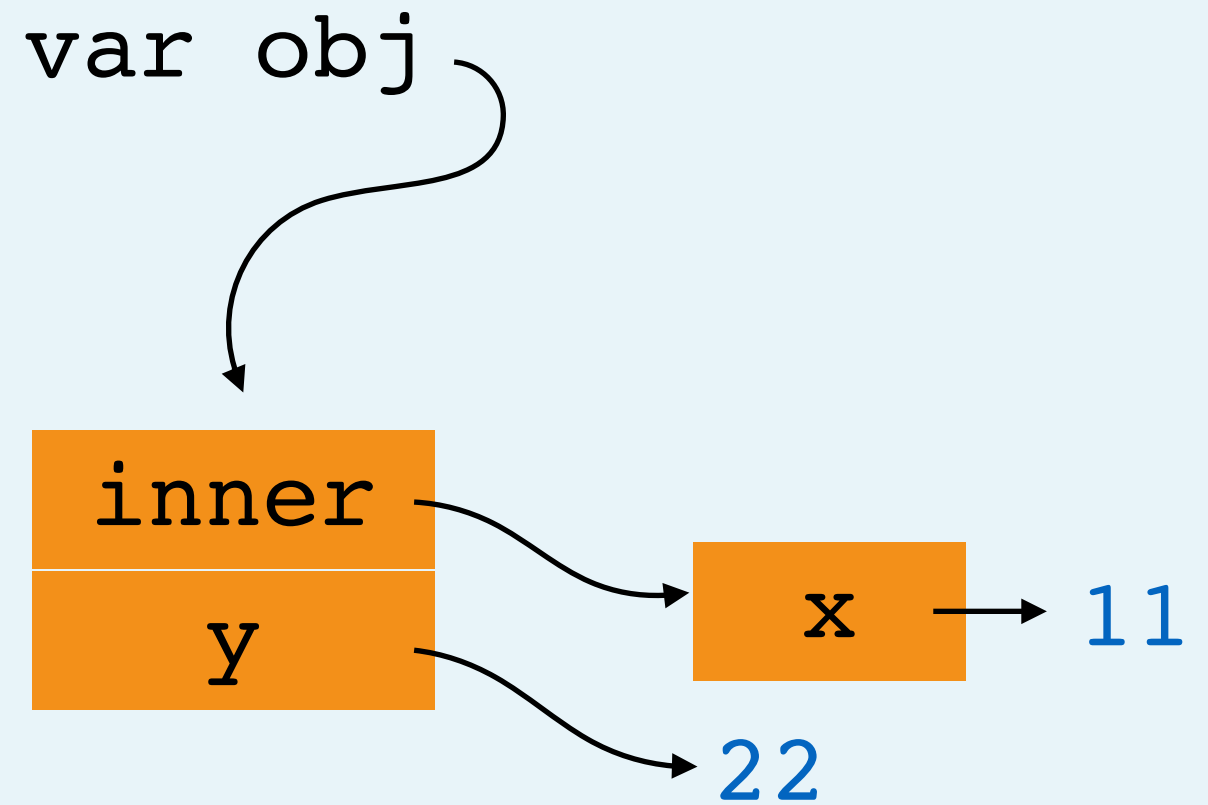
- a. Assignment
 - a. Evaluate right side
 - a. Binary operation (addition)



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

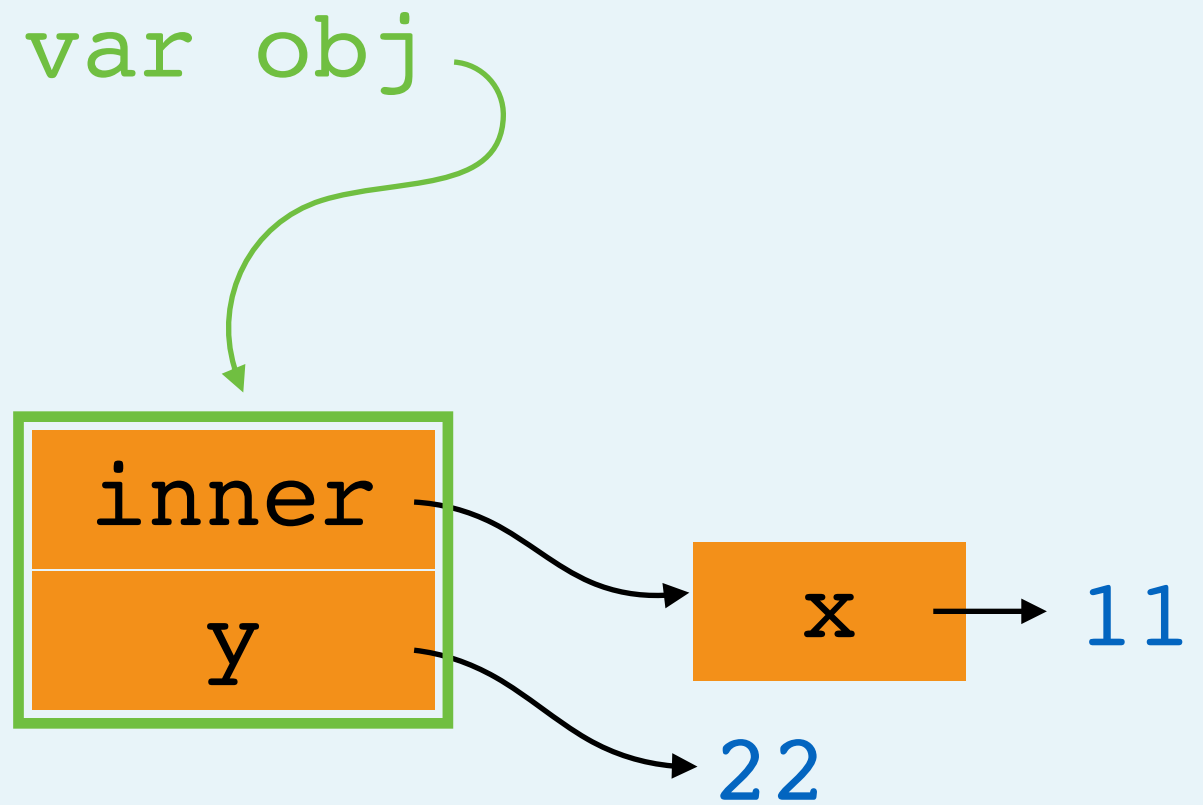
- a. Assignment
 - a. Evaluate right side
 - a. Binary operation (addition)
 - a. Object member expression



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

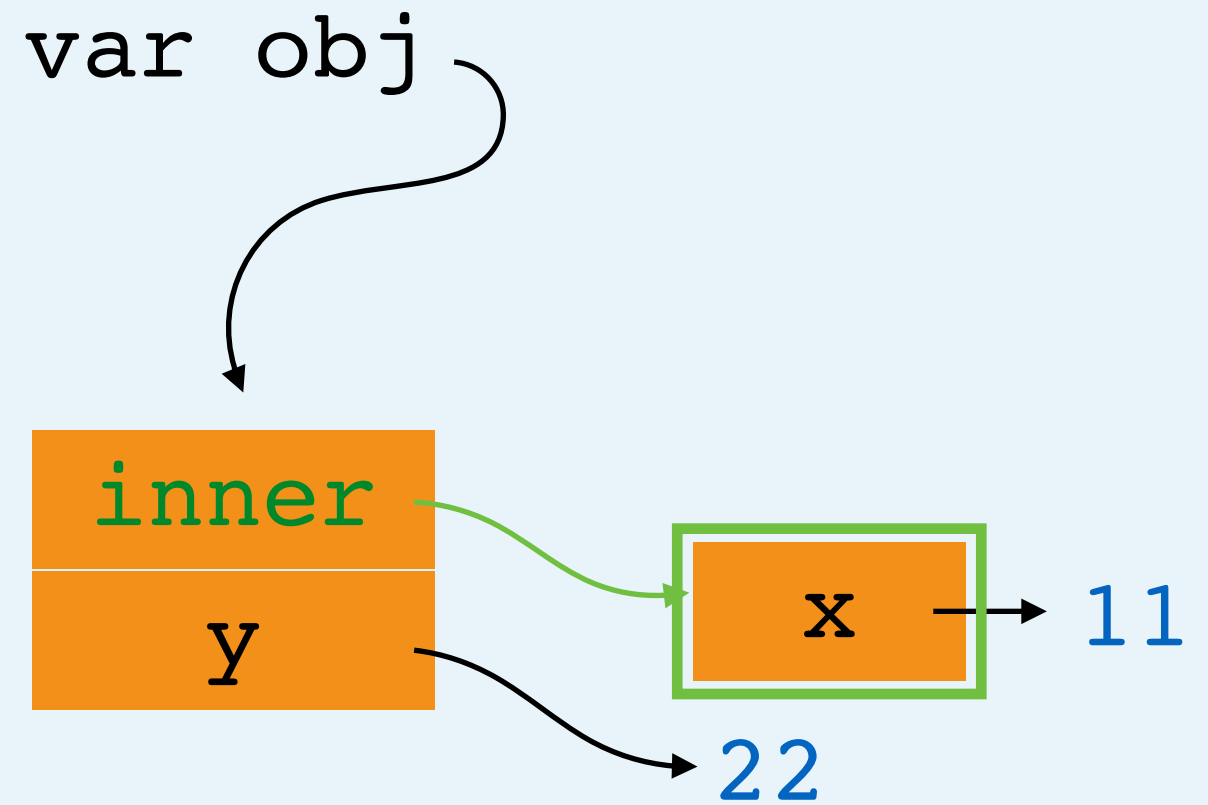
- a. Assignment
 - a. Evaluate right side
 - a. Binary operation (addition)
 - a. Object member expression
 - a. Look up value of variable "obj"



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

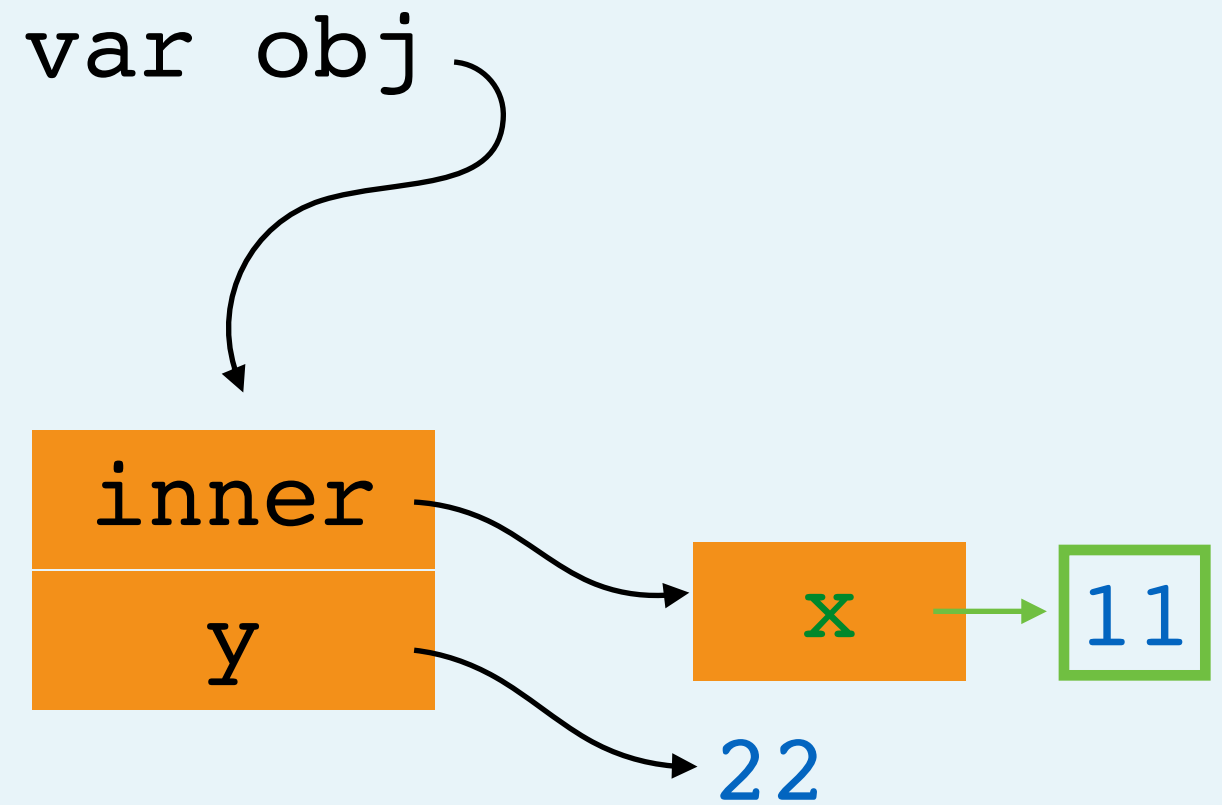
- a. Assignment
 - a. Evaluate right side
 - a. Binary operation (addition)
 - a. Object member expression
 - a. Look up value of variable "obj"
 - b. Look up value of property "inner"



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

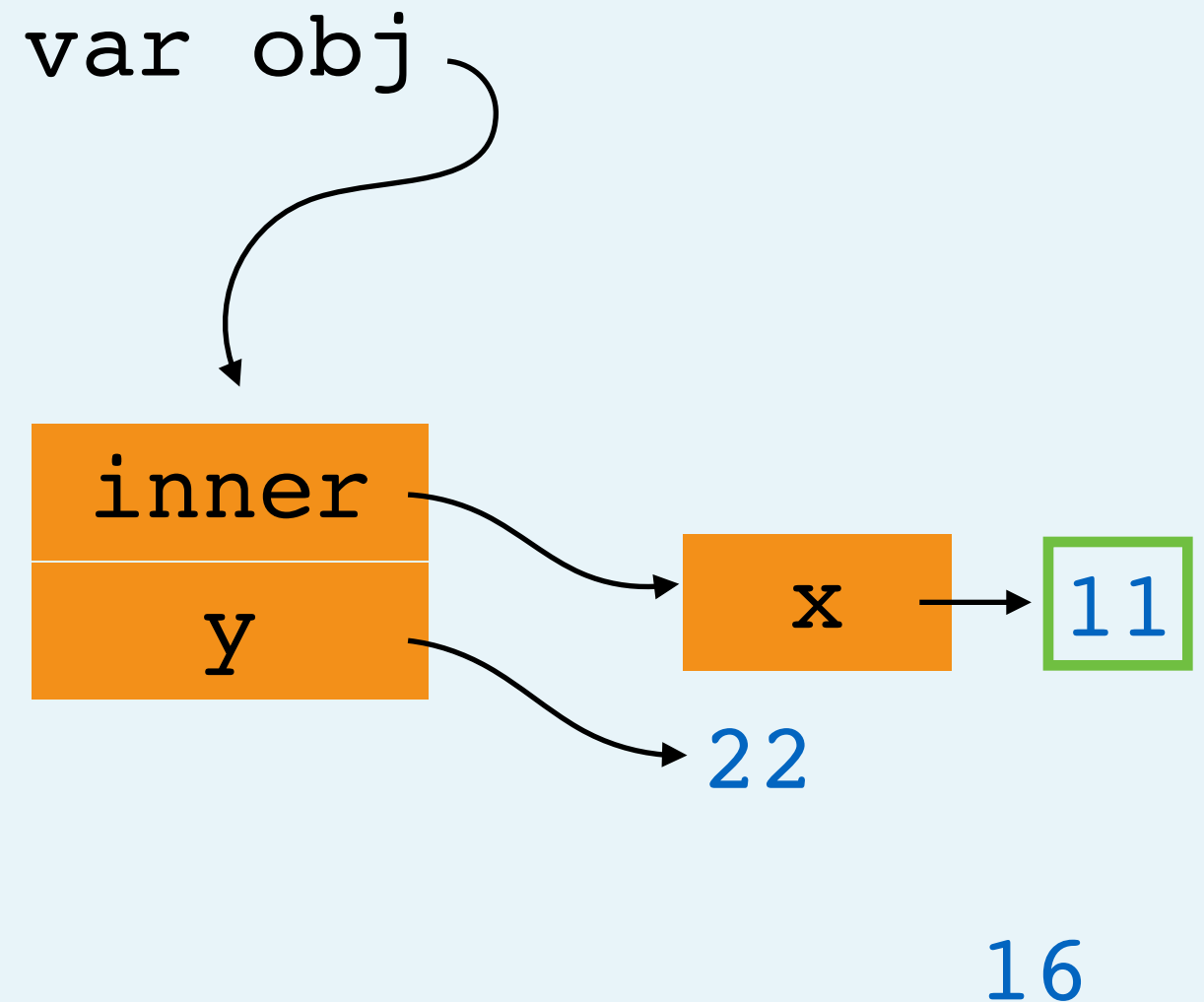
- a. Assignment
 - a. Evaluate right side
 - a. Binary operation (addition)
 - a. Object member expression
 - a. Look up value of variable "obj"
 - b. Look up value of property "inner"
 - c. Look up value of property "x"



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

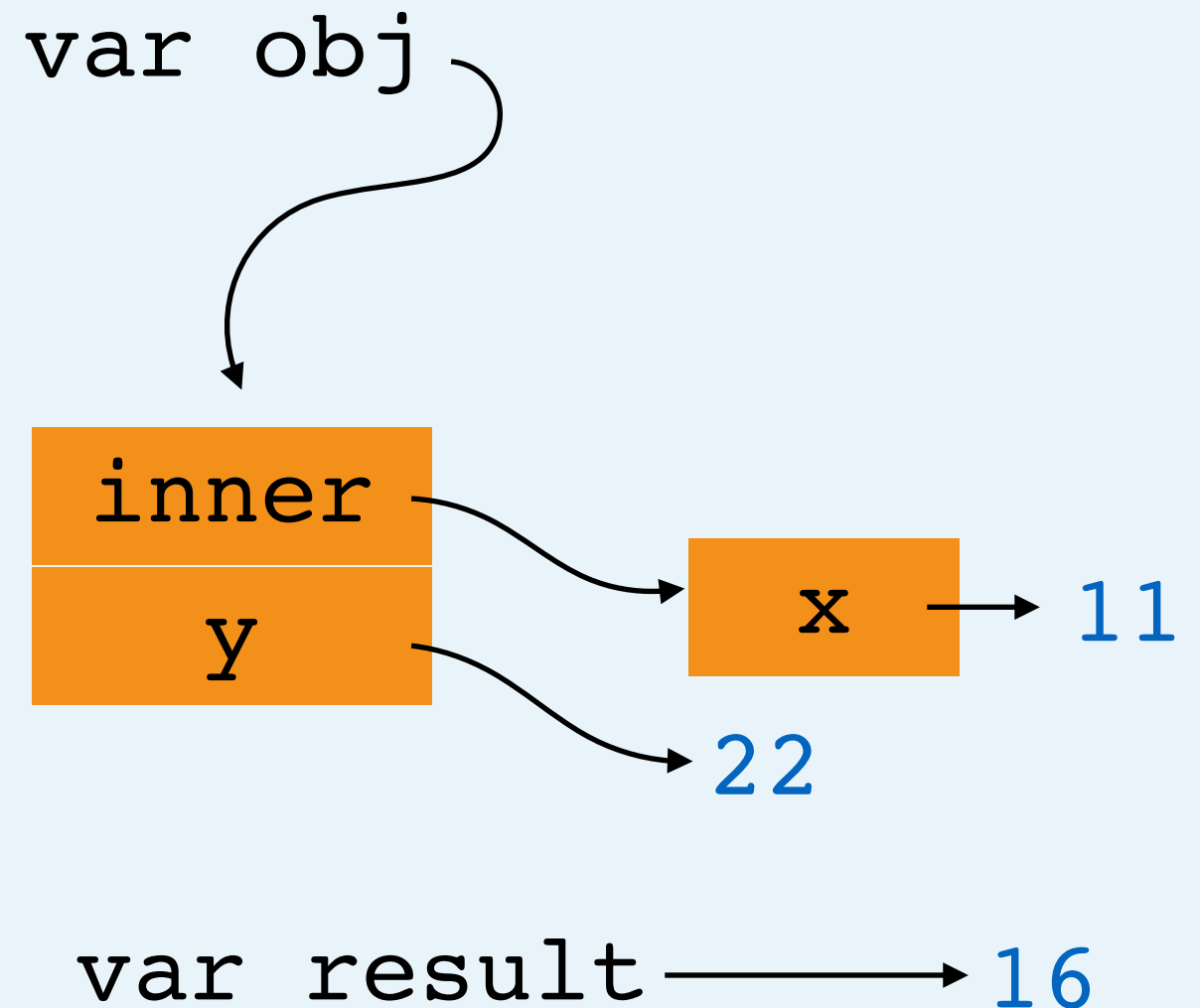
- a. Assignment
 - a. Evaluate right side
 - a. Binary operation (addition)
 - a. Object member expression
 - a. Look up value of variable "obj"
 - b. Look up value of property "inner"
 - c. Look up value of property "x"
 - b. Create value



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

- a. Assignment
 - a. Evaluate right side
 - a. Binary operation (addition)
 - a. Object member expression
 - a. Look up value of variable "obj"
 - b. Look up value of property "inner"
 - c. Look up value of property "x"
 - b. Create value
 - b. Create var "result", point to value of right side



Nested Objects (properties)

```
var obj = {  
  inner: { x: 11 },  
  y: 22  
}  
var result = obj.inner.x + 5
```

All Done!

- a. Assignment
 - a. Evaluate right side
 - a. Binary operation (addition)
 - a. Object member expression
 - a. Look up value of variable "obj"
 - b. Look up value of property "inner"
 - c. Look up value of property "x"
 - b. Create value
 - b. Create var "result", point to value of right side

