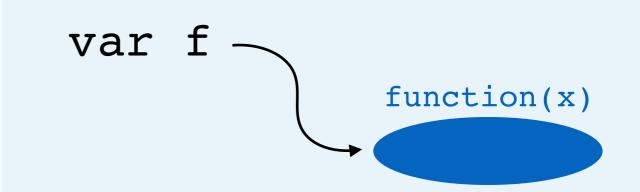
JSDN

(by example, part 2)

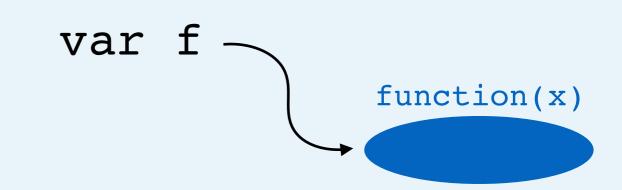
[more] Function Calls

```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```



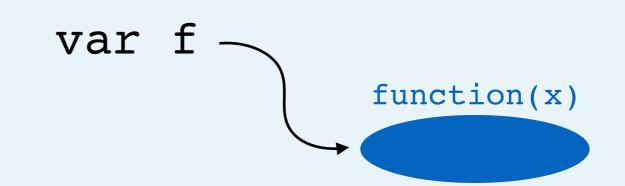
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

a. Assignment



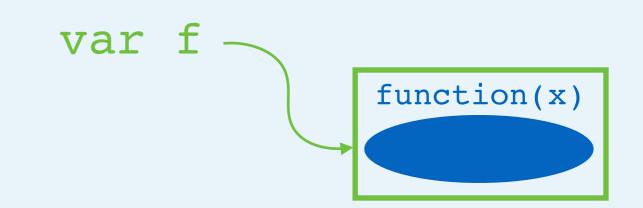
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side



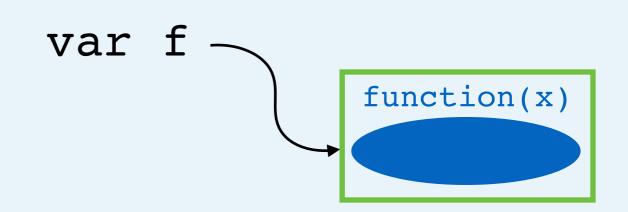
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)



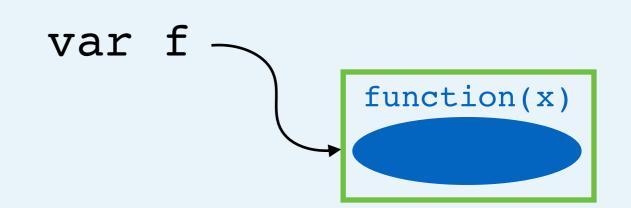
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument



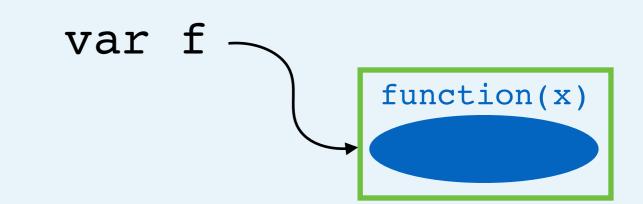
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)



```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

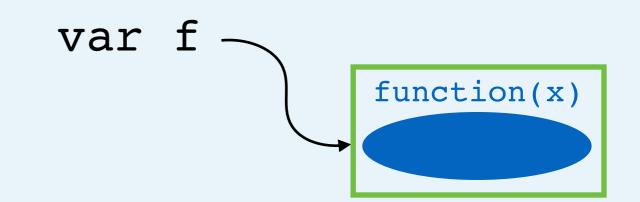
- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value



5

```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

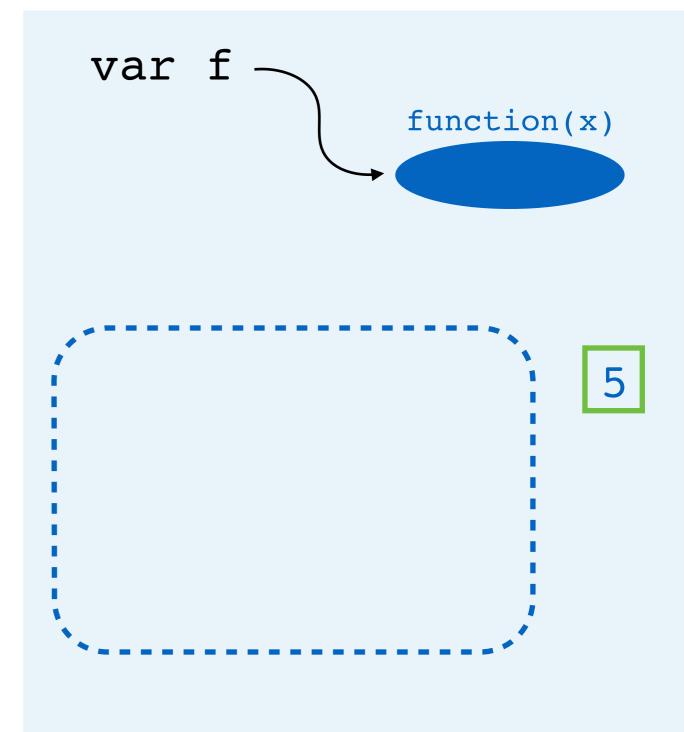
- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value
 - d. Call function



5

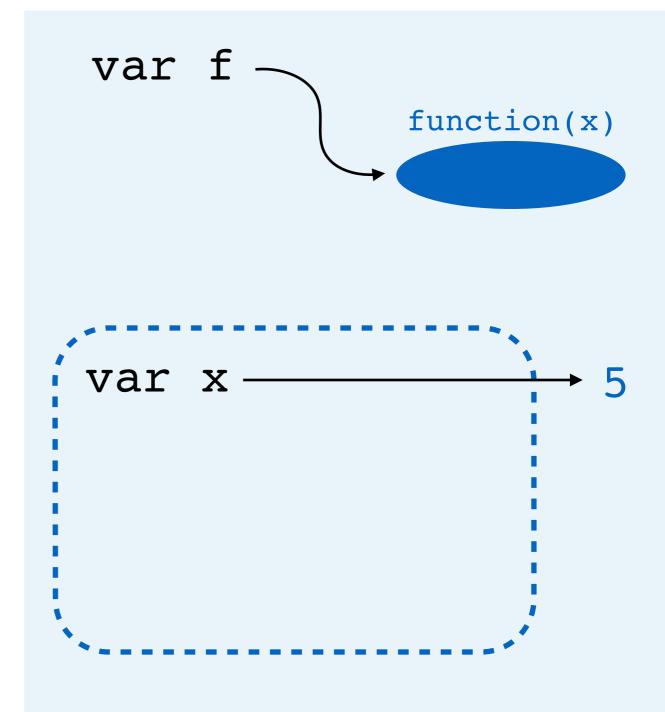
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value
 - d. Call function
 - a. Create scope



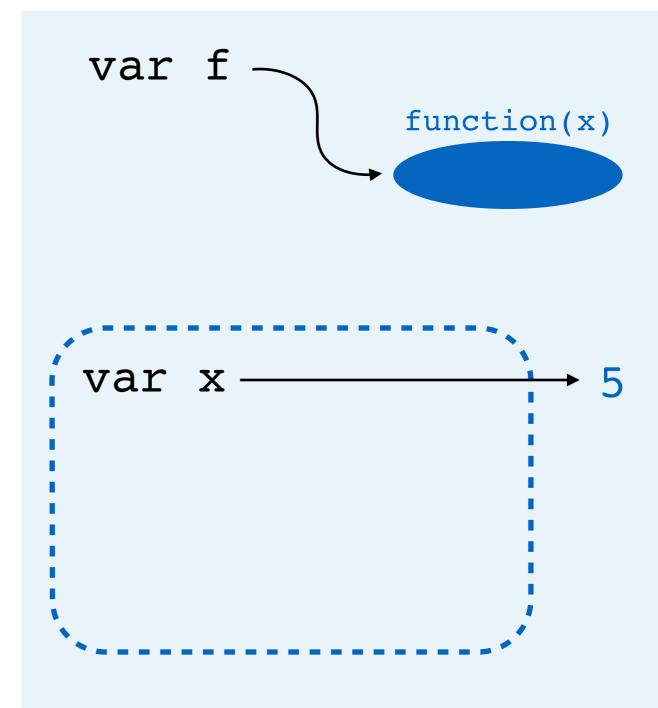
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)



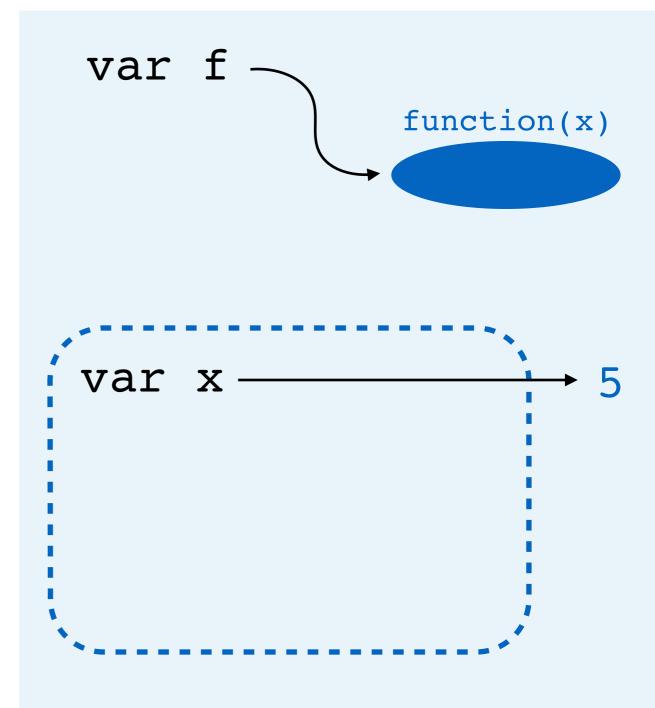
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement



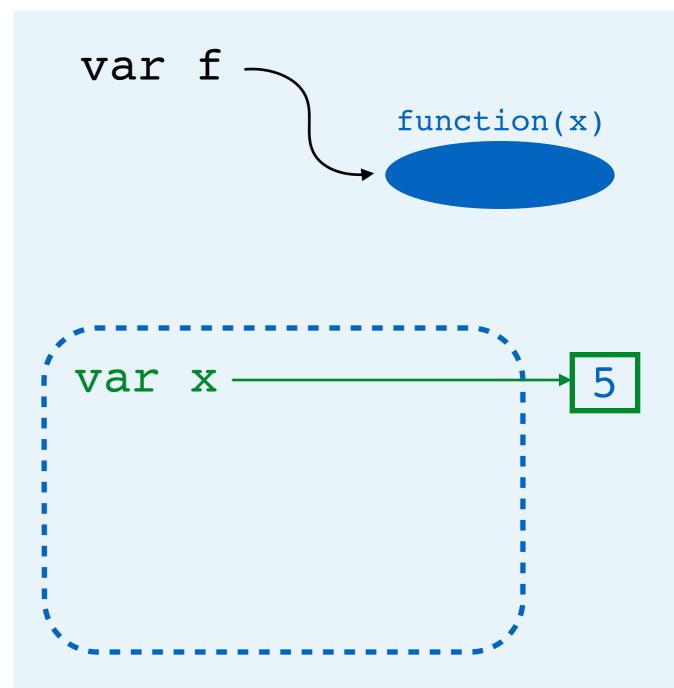
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (addition)



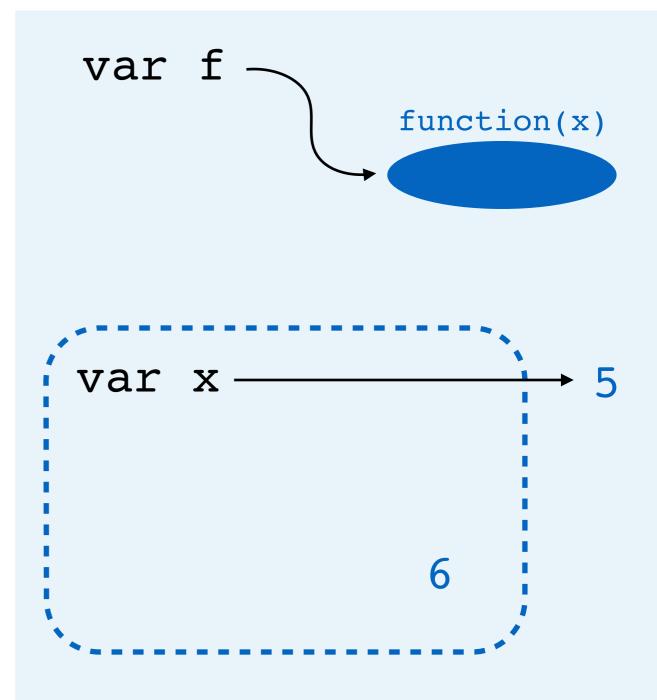
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (addition)
 - a. Look up value of x



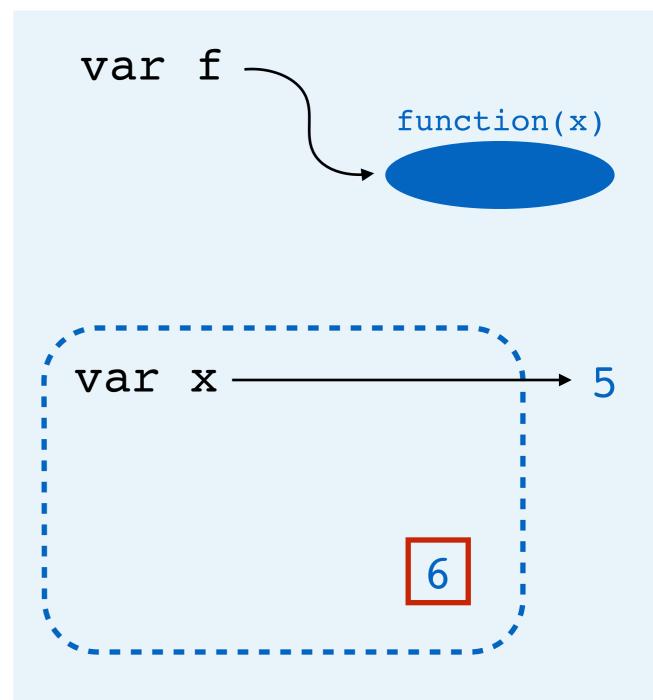
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (addition)
 - a. Look up value of x
 - b. Create value



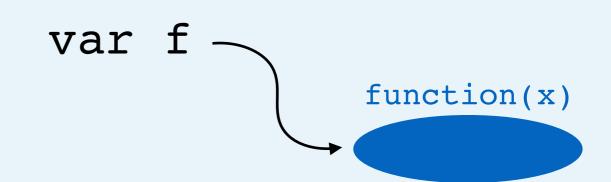
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (addition)
 - a. Look up value of x
 - b. Create value
 - b. Mark as return value



```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

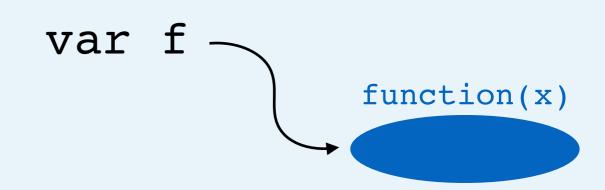
- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (addition)
 - a. Look up value of x
 - b. Create value
 - b. Mark as return value
 - d. Garbage collect scope

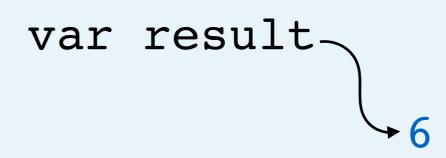


6

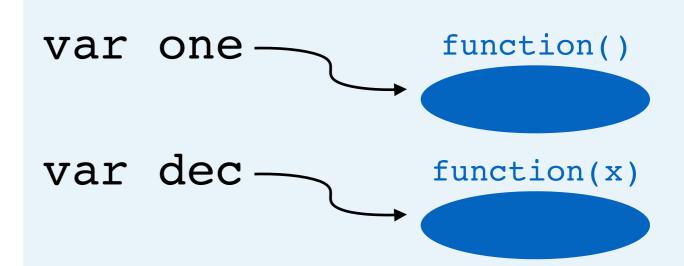
```
var f = function (x) {
  return x + 1
}
var result = f(2 + 3)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of f (it's a function!)
 - c. Resolve argument
 - a. Binary Operation (addition)
 - a. Create value
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (addition)
 - a. Look up value of x
 - b. Create value
 - b. Mark as return value
 - d. Garbage collect scope
 - e. Create var result, point to value



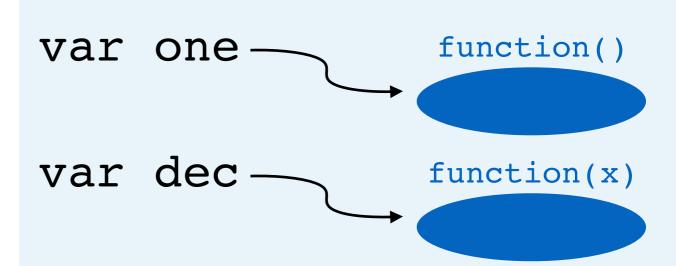


```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```



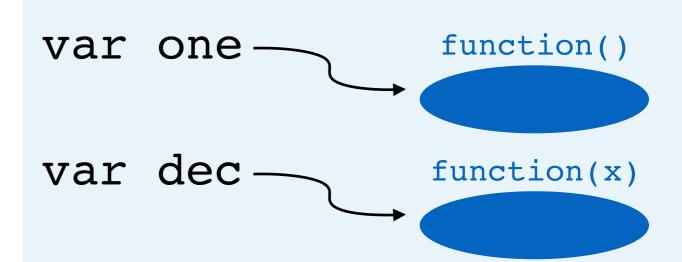
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

a. Assignment



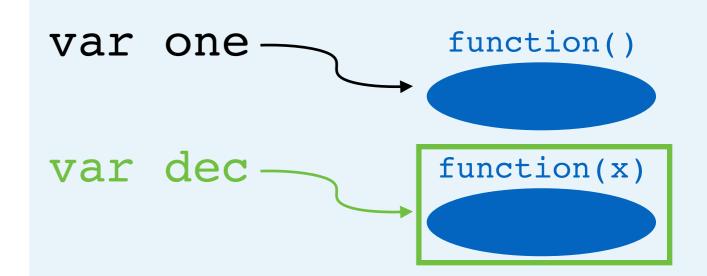
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side



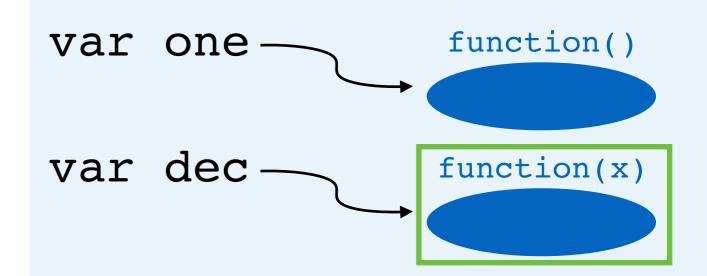
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec



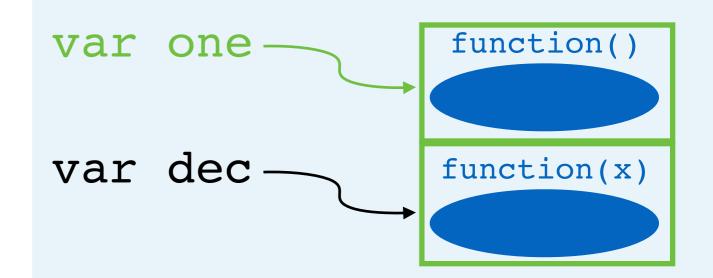
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument



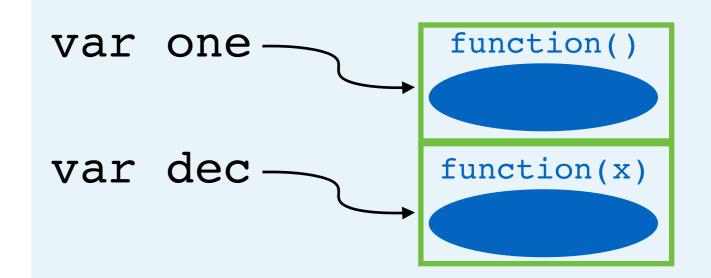
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one



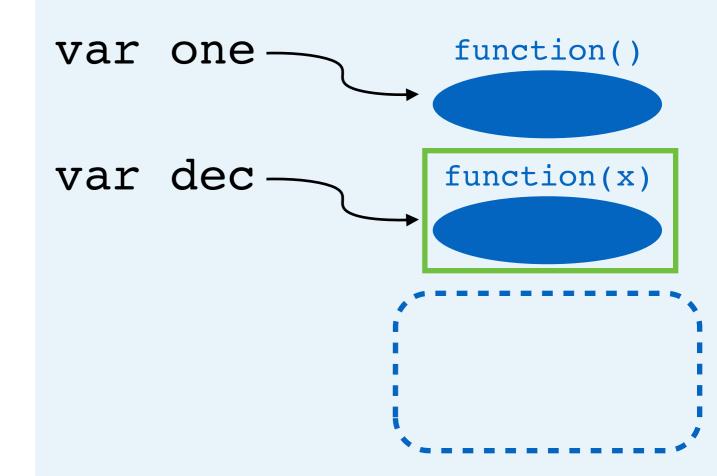
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function



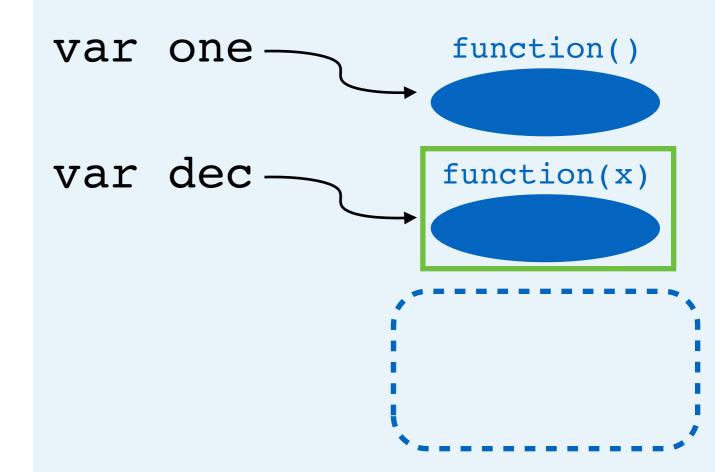
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope



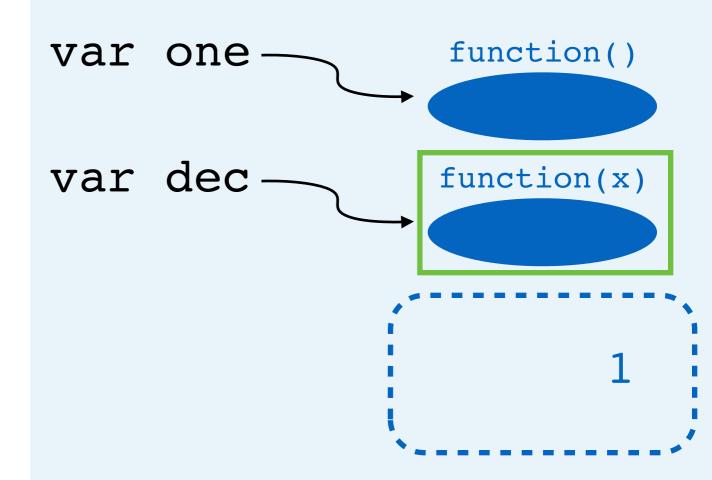
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement



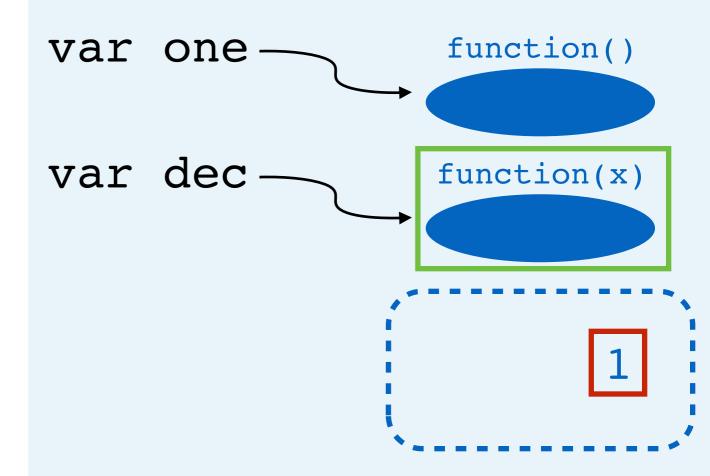
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number



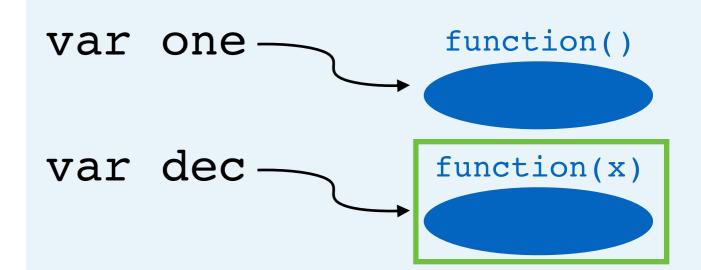
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value



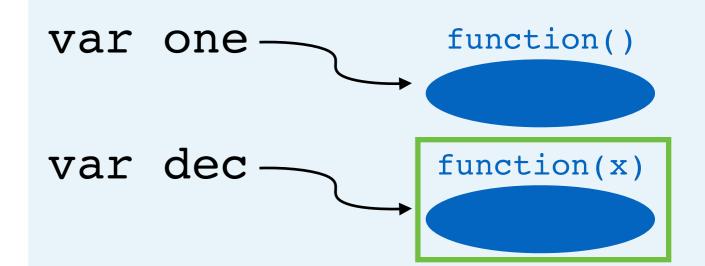
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope



```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

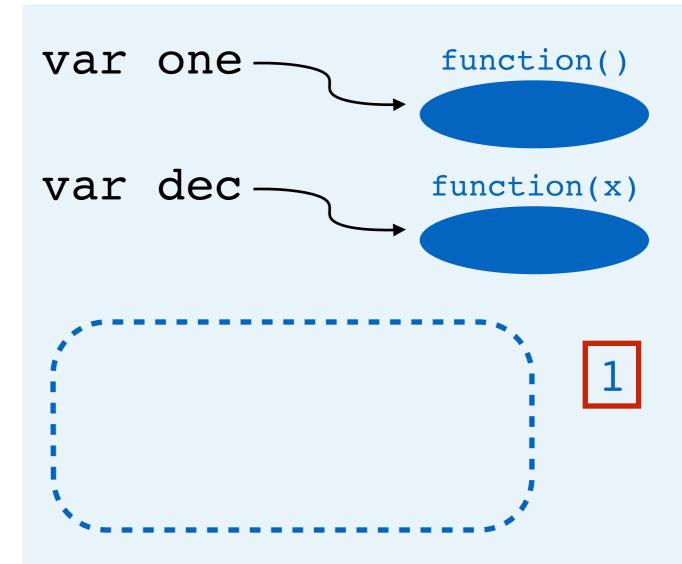
- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Call function





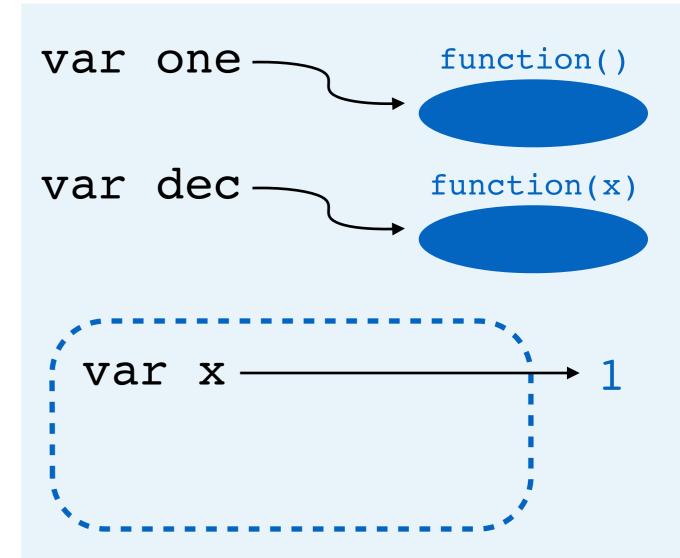
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Call function
 - a. Create scope



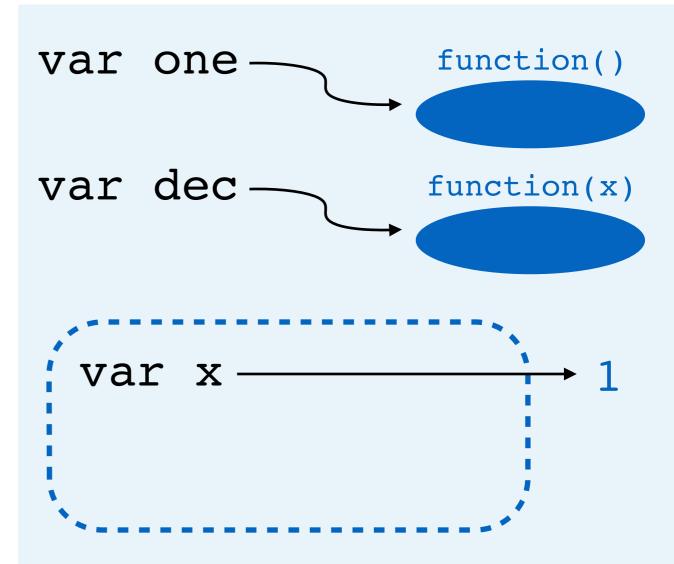
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)



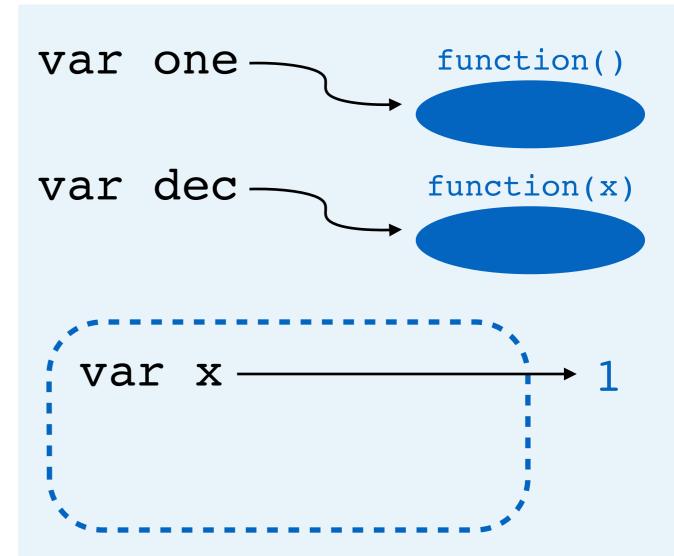
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement



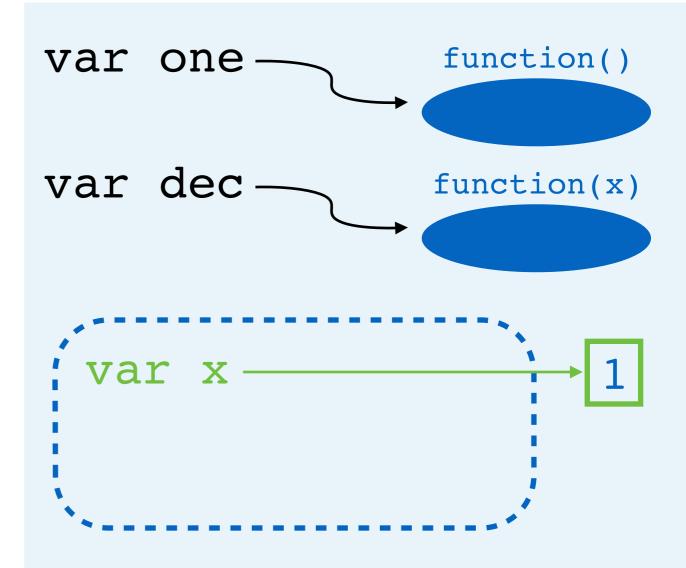
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (subtraction)



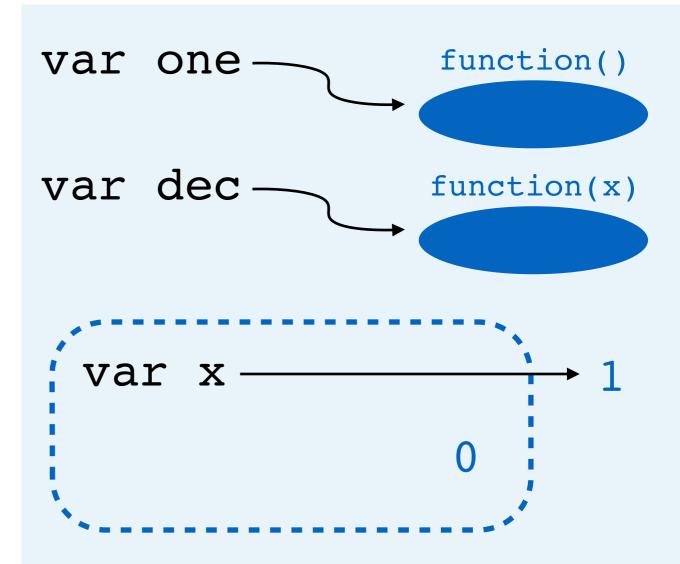
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (subtraction)
 - a. Look up value of x



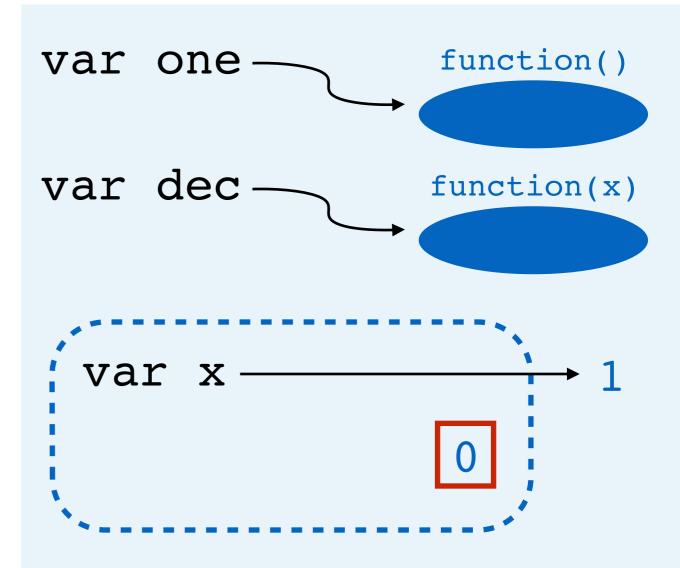
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (subtraction)
 - a. Look up value of x
 - b. Create value



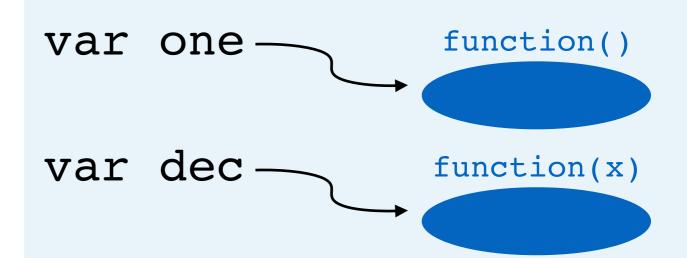
```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (subtraction)
 - a. Look up value of x
 - b. Create value
 - b. Mark as return value



```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (subtraction)
 - a. Look up value of x
 - b. Create value
 - b. Mark as return value
 - d. Garbage collect scope





```
var one = function () { return 1 }
var dec = function (x) {
  return x - 1
}
var result = dec(one())
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of dec
 - c. Resolve argument
 - a. Look up value of one
 - b. Call function
 - a. Create scope
 - b. Return statement
 - a. Create number
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Call function
 - a. Create scope
 - b. Create parameter(s)
 - c. Return statement
 - a. Binary Operation (subtraction)
 - a. Look up value of x
 - b. Create value
 - b. Mark as return value
 - d. Garbage collect scope
 - e. Create var result, point to value

