

## Textbook Assignment #2: Names, Scopes, and Bindings

**Issued:** Tuesday, October 3

**Due:** Tuesday, October 17

### Purpose

This assignment asks you to think about the management of names in programming languages: scope (aka, visibility), extent (aka, lifetime), and binding (i.e., meaning).

Be careful to answer all of an exercise's questions.

### Textbook Exercises

**Edition 4: question 3.2, page 167.**

Consider variable allocation. Give only Pascal and Scheme examples. They don't need to compile/execute.

**Edition 4: question 3.4, page 167.**

Consider live, but invisible, variables. Your examples need not compile/execute.

**Edition 4: question 3.5, page 167.**

Consider declaration order.

**Edition 4: question 3.7, page 169.**

Analyze memory bugs. Figure 3.16 is within the exercise.

**Edition 4: question 3.14, page 171.**

Consider static and dynamic scope.

**Edition 4: question 3.18, page 173.**

Consider shallow and deep binding.