

# Chapter 1: Basic Concepts

## Exercise Solutions

### 1.1 Difficulty [10]

#### Answer

$t \leftarrow a, a \leftarrow b, b \leftarrow c, c \leftarrow d, d \leftarrow t$

#### Explanation

Since we're "overwriting" each value by shifting every variable to the left, we have to keep an "extra copy" of **a** *in* **t** before it gets overwritten, that way we can overwrite **d** *with* **t** (our "copy" or equivalent to **a**) at the end. Order significantly matters here as we can't go the other direction without it being too many steps.

#### Comments

This is the equivalent of a nice beginning programming exercise I use at Girls Who Code! Gets the brain stirring, but definitely a simpler exercise that gets the point across.