element of the array. Thus, the array name plays the same role as a pointer. In turn, you can use a pointer name with array notation to access elements in an array allocated by new.

The new and delete operators let you explicitly control when data objects are allocated and when they are returned to the memory pool. Automatic variables, which are those declared within a function, and static variables, which are defined outside a function or with the keyword static, are less flexible. An automatic variable comes into being when the block containing it (typically a function definition) is entered, and it expires when the block is left. A static variable persists for the duration of a program.

**Review Questions**

.1: How would you declare each of the following?

   a. actors is an array of 30 char.

   b. betsie is an array of 100 short.

   c. chuck is an array of 13 float.

   d. dipsea is an array of 64 long double.

.2: Declare an array of five ints and initialize it to the first five odd positive integers.

.3: Write a statement that assigns the sum of the first and last elements of the array in question 2 to the variable even.

.4: Write a statement that displays the value of the second element in the float array ideas.

.5: Declare an array of char and initialize it to the string "cheeseburger".

.6: Devise a structure declaration that describes a fish. The structure should include the kind, the weight in whole ounces, and the length in fractional inches.