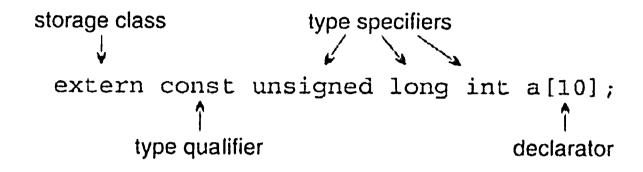
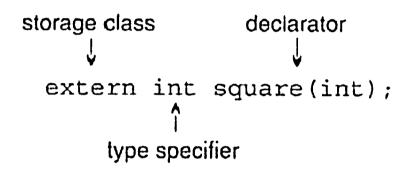


The following declaration has both a storage class and a type qualifier. It also has three type specifiers; their order isn't important:



Function declarations, like variable declarations, may have a storage class, type qualifiers, and type specifiers. The following declaration has a storage class and a type specifier:



The next four sections cover storage classes, type qualifiers, declarators, and initializers in detail.

18.2 Storage Classes

C99

Q&A

Storage classes can be specified for variables and—to a lesser extent—functions and parameters. We'll concentrate on variables for now.

Recall from Section 10.3 that the term *block* refers to the body of a function (the part enclosed in braces) or a compound statement, possibly containing declarations. In C99, selection statements (if and switch) and iteration statements (while, do, and for)—along with the "inner" statements that they control—are considered to be blocks as well, although this is primarily a technicality.

Properties of Variables

Every variable in a C program has three properties:

■ Storage duration. The storage duration of a variable determines when memory is set aside for the variable and when that memory is released. Storage for a variable with automatic storage duration is allocated when the surrounding