- In Declaration 2, i is a parameter with block scope.
- In Declaration 3, i is an automatic variable with block scope.
- In Declaration 4, i is also automatic and has block scope.

i is used five times. C's scope rules allow us to determine the meaning of i in each case:

- The i = 1 assignment refers to the parameter in Declaration 2, not the variable in Declaration 1, since Declaration 2 hides Declaration 1.
- The i > 0 test refers to the variable in Declaration 3, since Declaration 3 hides Declaration 1 and Declaration 2 is out of scope.
- The i = 3 assignment refers to the variable in Declaration 4, which hides Declaration 3.
- The i = 4 assignment refers to the variable in Declaration 3. It can't refer to Declaration 4, which is out of scope.
- The i = 5 assignment refers to the variable in Declaration 1.

10.5 Organizing a C Program

Now that we've seen the major elements that make up a C program, it's time to develop a strategy for their arrangement. For now, we'll assume that a program