discussed in Chapter 6. Typically, programmers use the for loop for counting loops because the for loop format enables you to place all the relevant information—initial value, terminating value, and method of updating the counter—in one place. Programmers most often use the while loop when they don't know in advance precisely how many times the loop will execute.

Keep in mind the following guidelines when you design a loop:

1. Identify the condition that terminates loop execution.

2. Initialize that condition before the first test.

3. Update the condition each loop cycle before the condition is tested again.

One nice thing about the for loop is that its structure provides a place to implement these three guidelines, thus helping you to remember to do so.

Bad Punctuation