**Chapter 6 Inserts**

**Insert 358-A**

If a function uses more than one reference variable as a parameter, be sure to include an ampersand in the definition of each reference variable in the function header and the function prototype. For example, in Program 6-27 the function getThreeValues has three int reference parameters. Notice that the function prototype (in line 6) shows an ampersand with each parameter:

void getThreeValues(int &, int &, int &);

The function header (in line 31) also includes an ampersand with each parameter definition:

void getThreeValues(int &num1, int &num2, int &num3)

**Program 6-27**

1 // This program uses reference variables as function parameters.  
 2 #include <iostream>  
 3 using namespace std;  
 4   
 5 // Function prototypes  
 6 void getThreeValues(int &, int &, int &);  
 7 int addThreeValues(int, int, int);  
 8   
 9 int main()  
10 {  
11 int value1, value2, value3;  
12   
13 // Get three values from the user.  
14 getThreeValues(value1, value2, value3);  
15   
16 // Display the sum of those three values.  
17 cout << "The sum of those numbers is: "  
18 << addThreeValues(value1, value2, value3)  
19 << endl;  
20   
21 return 0;  
22 }  
23   
24 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
25 // Definition of getThreeValues \*  
26 // The parameters num1, num2, and num3 are reference variables. \*   
27 // The user is prompted to enter three numbers that are stored \*  
28 // in the reference parameters. \*  
29 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
30   
31 void getThreeValues(int &num1, int &num2, int &num3)  
32 {  
33 cout << "Enter three integer values: ";  
34 cin >> num1 >> num2 >> num3;  
35 }  
36   
37 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
38 // Definition of addThreeValues \*  
39 // This function returns the sum of its three parameters. \*  
40 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
41   
42 int addThreeValues(int num1, int num2, int num3)  
43 {  
44 return num1 + num2 + num3;  
45 }

***Program Output with Example Input Shown in Bold***

Enter three integer values: **10** **20** **30 *Enter***

The sum of those numbers is: 60