Loops

1. What is the output of the following program segment? (All variables are of type int)

i = 1;

while (i<=5)

{

sum = 0;

j = 1;

while (j<=1)

{

sum = sum + j;

j++;

}

cout << sum << ' ';

i++;

}

2. Write a program that produces this output:

1  
1 2  
1 2 3  
1 2 3 4

3. The following code segment is supposed to write out the even numbers between 1 and 15. (n is an int variable) It has two flaws in it.

n = 2;

while (n != 15)

{  
 n = n + 2;  
 cout << n << ' ';  
}

a. Describe the output of the code as written

b. Correct the code so that it works as intended.

4. Write a program that adds up the odd integers from 15 through 75, inclusive.