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.