CS 2500, Spring 2011 – Programming II Quiz 2

There are 5 questions (last two questions are on the back of the page).	
Name:	
1. Define a recursive function?	
2. What are the Four Questions for constructing a	recursive function?

3. Given an integer n > 0, write a recursive C++ function that returns the sum of 1 through n. The function declaration is:

int recursive_sum(int number);

4. Describe the problem with the following recursive function:

```
void printNum( int n)
{
    cout << n << endl;
    printNum(n-1);
}</pre>
```

5. Consider the following recursive function:

```
void nesto(int n)
{
        cout << n;
        if (n != 0)
        {
            nesto(n-1);
            cout << n;
        }
}</pre>
```

- a. What is written if the call nesto(0) is made?
- b. What is written if the call nesto(1) is made?
- c. What is written if the call nesto(2) is made?
- d. What is written if the call nesto(3) is made?