CIS 2723 Computer Science II
Chapter 8 Homework

Print Name: _____

Date: _____

Section 1.   Chapter 8 Questions

Answer each question fully.

For Questions 1-3, consider the following method:

```
public static int foo1 (int n)
{
        if (n == 0)
                return 0;
        else if ( n >0)
                return foo1(n - 1);
        else
                return foo1(n + 1);
}
```

1. What is the value of `i` after the following code is executed?

    ```
    int i = foo1(0);
    ```


2. What is the value of `i` after the following code is executed?

    ```
    int i = foo1(4);
    ```


3. What does the `foo1` method do?

For Questions 4-6, consider the following method:

```
public static int foo2 (int n)
{
        //n is guaranteed to be >= 0        if (n <10)
                return n;
        else
                return foo2(n - 10);
}
```

4. What is the value of `i` after the following code is executed?

   ```
   int i = foo2(7);
   ```

5. What is the value of `i` after the following code is executed?

   ```
   int i = foo2(13);
   ```

6. What is the value of `i` after the following code is executed?

   ```
   int i = foo2(65);
   ```