Exercise #6 (No computers needed)
Due Friday, 11/06/2015, at 11:59pm

New Terms
In your own words define the following: Pointer, Dereference, and Pass-by-reference

Understanding Functions
Write the following function, fun. Pay attention to how the function is called to understand what the parameter types are. Explain

- the function call
- function parameter types
- contents of the function

// Name: fun
// Description: Assign 2*b to a and 3*b to c.
// Preconditions: b contains a valid integer value
// Postconditions: a will contain 2*b and c will contain 3*b.
// Return: none

```cpp
int main() {
    int a, b=3, c;
    fun(a, b, &c);
    cout << a << " " << b << " " << c << endl;
    return 0;
}
```

What if you had a fun_a() and a fun_c() called from fun()? The fun_a() would set the a variable from main, and the fun_c() would set the c variable from main.

- What would the fun_a() and fun_c() calls from fun() look like?
- Write the definitions for each.

Designing Assignment #4 Fractals: As a group, answer the following questions.

Understanding the Problem – Problem Analysis
- Do you understand the fractals that are supposed to print when given a power of 2?
- What will the picture look like for N=16?

Design – Give as much detail as possible
- How will you use two recursive function calls to pattern?
- What are the two for loops used to do?
- What functions will you need to make sure you are <= 10 lines of code in each?

Testing – Develop the test plan for your Assignment #4 Fractals
- What will bad input look like? What will good input look like?
- What are the expected results from the bad input? Good input?

For take-home exercises completed in peer-led groups, each student must participate and write answers to each of the questions on his/her own paper to show for credit. Your 1-2-3 grade will be based on the completion/understanding shown on your own piece of paper shown to your TA for a grade before leaving the group session!!!

For take-home exercises completed on your own, turn in your work electronically using the TEACH website!!!