Assignment 1: Answer the following questions. You may download this document and place your answers within.

1. Description the software development process. Be brief but include pertinent details.
2. The following program has three separate errors, each of which would cause an infinite loop. As a member of the inspection team, you could save the programmer a lot of testing time by finding the errors during the inspection. Can you help?

void Increment(int);

int main()

{

int count = 1;

while(count < 10)

cout << " The number after " << count; /\* Function Increment

Increment(count); adds 1 to count \*/

cout << " is " << count << endl;

return 0;

}

void Increment (int nextNumber)

// Increment the parameter by 1.

{

nextNumber++;

}

1. Read Case Study: Fraction Class on page 52 and answer the following questions.
2. The solution to the Case Study did not consider negative fractions.
   1. How should a negative fraction be represented?
   2. Which of the member functions would have to be changed to represent negative fractions? What changes would be involved?
   3. Rewrite the test plan to test for negative fractions.
   4. One of the member functions in the Case Study needs an additional test. Which function is it, and what should the data be?