1. Which parts of Assignment 3 will use a for loop? Which parts of Assignment 3 will use a while loop or do-while?

2. Assume we have the following code below, using a library for which we cannot see the source code. We are expecting the value “4”, but our code is printing “6”, how could we go about debugging this?

```cpp
#include <fakemathlib>
...
int num = 2;
num = add_one(num);
num = mult_two(num);
num = divide_by_three(num);
num += 2;
cout << num << endl;
```

//Assume this compiles and prints a 6

3. We have begun to use c++ strings, what is different about strings from other data types we have seen like int, float, char?

4. Look at the code below, then design a function called “get_last_name(str fName)” to get the last name of a person whose first name you already have. What type will this function be? What are the statements in the function? What does the function call look like?

```cpp
string fName1 = "John", fName2 = "Kate", fName3 = "Jackson";
string lName1, lName2, lName3;

cout << "Hello " << fName1 << ", what is your last name?: ";
cin >> lName1;
cout << "Hello " << fName2 << ", what is your last name?: ";
cin >> lName2;
cout << "Hello " << fName3 << ", what is your last name?: ";
cin >> lName3;
```