# CS210 Recursion Lab

### Part 1

Answer the following questions:

1. Although, it is not explicitly stated, what is the base case for writeSub()?
2. What is the base case for insertEndSub()?
3. If you wanted to print the list backwards, how would you modify writeSub()? Why?

### Part 2

1. Modify the writeSub() function (in the listrec.cpp file) so that it prints in reverse. You should get the following output:

Enter a list of characters : abc

a b [c]

List : cba

List : !cba

1. Write recursive member functions in listrec.cpp that insert the letter ‘a’ before each instance of the letter ‘b’. The function prototypes, aBeforeb() and aBeforebSub()have been created for you.
2. Complete this test plan for aBeforeb(). If you discover errors, correct them and test all cases again.

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Test String** | **Expected Result** | **Success** |
| b at the beginning |  |  |  |
| b at the end |  |  |  |
| b in the middle |  |  |  |
| Multiple b’s |  |  |  |