**EE 205 Programming Assignment 2   
Lists**

**Objectives**

Practice solving problems using lists.

**Deliverables:**

1. Source code
   1. (20 pts) compiles and runs
   2. (40 pts) works correctly
      1. Code follows these exact instructions
      2. calculated correctly
      3. printed nicely and correctly
   3. (5 pts) commented with the appropriate headers; correctly indented
   4. (5 pts) commented with the algorithm
2. (10 pts) Hand calculations (about 5 values of input are enough). Pick some appropriate test cases and calculate the output by hand. Pick some “easy” values and also some “corner cases”.
3. (10 pts) Results from the code, tabulated (at least 5 different results)
4. (10 pts) Commentary: What is the algorithm for your program? Does your code work correctly? How do you know? If not, what did you try to fix it? Where do you suspect is the problem? Any suggestions for improvements to your code/teamwork/approach/etc.? Anything else?

Each team submits ONE submission per team.

Each team member will write for themselves:

1. what they learned from this homework

2. how they contributed

3. one question they have.

4. (optional) any comments? Did you like the assignment, how did the team work out, …. ? This part is confidential.

The grade will be based on this, i.e. each team member can get a different grade for the same team assignment.

**Task**

Work with the singly list code you made for the lab earlier and also your bank code we did earlier for the lab.

Take a basic bank account we did earlier in the lab and instead of putting them into an array, make a list of bank accounts.

Your code is to be run by bank tellers. It should allow them to:

* + - 1. create a new account and add it into the list. The list is ordered by account numbers, in increasing order. Make sure that a new user can create a new bank account with a different number, but cannot open an account with an existing number.
      2. find an existing customer by their name OR their number.

Extra credit 10 pts: once you find a customer, let them withdraw or deposit.

* + - 1. delete a customer, by their name or account number.

Store it in file bankwithlist.cpp. Include your list files from the Lab assignment

Make a makefile.

Hint: instead of using Slinks, use \_\_\_\_\_\_\_\_\_\_\_\_\_.

# Turn it in

Submit to Laulima Assignments, as a tarred zipped file.

Due Friday at midnight 11:59PM.