Lab 3

Start with the code in ~lliang/cs162/labs/lab3. You will want to copy it into a directory of your own.

Implement two functions specified in list.h. You need to fill in the implementation in list.cpp:

- bool insert(int val, int intList[], int& size) the above function will insert "val" into the correct position of a sorted "intList" and increment size. When doing the insertion, the list should maintain sorted. For example, when the list is [3], after inserting 1, it should become [1, 3]. It returns false if "intList" has val already and it won't insert the duplicate. You should not use a sorting algorithm for this.
- bool remove(int val, int intList[], int& size) the above function will remove "val" from "intList" and decrement size. For example, when the list is [1, 3, 5], after removing 3, the list should be [1, 5]. It returns false if "intList" doesn't have "val"

In app.cpp, the function print is used to print the integers in the list. You can use this information to check the accuracy of your code.

You can build the app using the make utility, which is supported by the file named makefile provided in the directory.

For lab3 submission, copy the function **bool insert**(...) implementation into lab3.txt, then append the output of the app to the file using the command line below. ftp lab3.txt to your local machine and upload it to the Desire2Learn dropbox.

./app >> lab3.txt