

Proficiency Practice Test Final

Start with the code in `~l1iang/cs162/proficiencyTestPractice/final`. You will want to copy it into a directory of your own.

File `supplied.o` contains code that can build, display, duplicate, and destroy a *linear linked list*.

For this test, you will need to write the following functions in `list.cpp`, add function prototypes for them to `list.h` and invoke the functions in `main.cpp`. You should label the output of your test, such as “the list after insertion: ” etc.

- `int sumOfList(node * head)`
compute and return the sum of integers in the linear linked list.
- `void insert(node *& head, int position, int newInt)`
insert `newInt` at index “position” where index starts with 0.

Create a makefile for the project and build it. Please don’t forget the `supplied.o` when generating the executable.

For test submission, copy the above function implementation into `solution.txt`, then append the output of the app to the file. ftp `solution.txt` to your local machine and upload it to the Desire2Learn Assignment dropbox.

```
./main >> solution.txt //assuming the executable is called main
```