

Seng 265 Week 4

- Attendance
- New reference for later
- This week breaking a C program into separate modules.
 - Create a header file with the shared functions
 - Create a separate c file with the function bodies and local variables
 - Create a test file with just the main

Highlight

- Structs
- Referencing a struct member that is a pointer use:
 - structname->member rather than
 - (*structname).member
 - If the member is not a pointer but a value then the reference would be structname.member

This Week...

- Take llist.c and break it out into two separate c files and 1 .h file:
 - llist.c and testlist.c
 - llist.h
- llist.c has the list functions and local list variables. llist.h has the type def and function prototypes ... don't forget the extern keyword for the prototypes

More on modules

- testlist.c has the main
- The connection between the two files is llist.h. #include “list.h” in both c files.
- Compile the files together:
 - Gcc llist.c testlist.c -o runit

Do that now:

Complete the module

- Complete the missing functions in the `llist.c` module
 - You can use the other functions as a guide.

Homework

- Look up structs both as records and as type definitions.
- For more practice check:

<http://www.cs.princeton.edu/courses/archive/spr03/cs217/lectures/Modules.pdf>

A new entry in attendance and reference html