

CS2106 Labs

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Lab schedule

- One assignment roughly every two weeks
 - Odd weeks: Release of assignment
 - Even weeks: Assignment due at end of the week (except for asg 1)
- Assignment
 - Ex1: Demonstrate your working program to me during lab session
 - Ex2 & Ex3: Submit to LumiNUS

Lab attendance

- Lab attendance = Ex1 demo
- Tentative schedule
 - Assignment 1 demo: Weeks 3, 4, 5
 - Assignment 2 demo: Weeks 5, 6
 - Assignment 3 demo: Weeks 7, 8
 - Assignment 4 demo: Weeks 9, 10
 - Assignment 5 demo: Weeks 11, 12

Conduct of labs

- Your Ex1 demo
- For you to ask for help or clarifications
- Some pointers for the assignment (odd weeks only)

My lab classes

- Lab 07: Monday 4-5pm
- Lab 05: Monday 5-6pm
- Lab 09: Friday 10-11am

Programming language

- Use C only
- Must work with the gcc 5.4.0 that is installed on the lab machines (Linux x86-64)
 - If you do the assignments on another platform, make sure that you test it on the lab machines!

If you work on another platform ...

- Size of a pointer type
 - `(sizeof(size_t) == 4)` for 32-bit programs (while sunfire is 64-bit, gcc on sunfire is configured to compile 32-bit by default; can use `-m64`)
- Endianness
 - `int x=1; (*((char*)&x)) != (char)x` on big-endian machines (sunfire)
- POSIX support
 - Windows doesn't support many POSIX system calls that will be used in the lab assignments
- Be sure to test your code on the lab machines!

Some pointers for assignment 1

- Ex1:
 - `deleteNode()` and `deleteList()` should free the relevant nodes
 - `deleteList()` should not free the origin node
- Ex2:
 - `subNodehead` should be set to `NULL` when a node is inserted (`malloc()` does not zero out the memory)
- Ex3:
 - Either: use a pointer to a function with any number of arguments
 - Or: write a wrapper function to read input for each operation