# COEN 11 Lab 2

# Steps

1. Open up Terminal and connect to the Linux computers:
   ***ssh -l username linux.dc.engr.scu.edu***
2. Go to COEN 11 directory: ***cd coen11***
3. Make a file: ***vi lab2.c***
4. Compile the file: ***gcc -o lab2 lab2.c***
5. Test your file: ***./lab2***

```c
#include <stdio.h>
#include <string.h>

#define SIZE 10
#define LENGTH 20

int count = 0;
int size[SIZE];
char names[SIZE][LENGTH];

void insert(void);
void delete(void);
void list(void);

int main() {
     int input;

     printf("Welcome to the Surf Lesson Scheduler!\n\n");
     printf("(1) Schedule Appointment\n");
     printf("(2) Remove Appointment\n");
     printf("(3) List Schedule\n");
     printf("(0) Exit\n\n");

     while(1) {
          scanf("%d", &input);

          switch(input) {
               case 0:
                    return 1;
               case 1:
                    insert();
                    break;
               case 2:
                    delete();
                    break;
               case 3:
                    list();
                    break;
               default:
                    printf("That command is not valid.\n");
                    printf("1, 2, or 3 are valid commands\n\n");
                    break;
          }
     }
     return 1;
}

void insert() {
     //TODO: Read in name and group size and add to schedule
}

void delete() {
     //TODO: Read in number (scanf) and remove oldest appoint with
     //      that group size
}

void list() {
     //TODO: list out the schedule
}

```

# Requirements

3 global variables: **count**, **name** array, **size** array
4 functions: main(), input(), delete(), list()
**main()** ~ has an infinite loop (while(1)) with a scanf() that reads in an input and a switch statement to act on that input
**input()** ~ reads in a name and a group size and adds them to respective arrays
**delete()** ~ reads in a number, deletes the first appointment with that group size, and shifts the arrays up to close the gap; if the count is 0, inform the user; if the group size is not in the schedule, inform the user
**list()** ~ lists out the schedule
Demo and submit source code to Camino

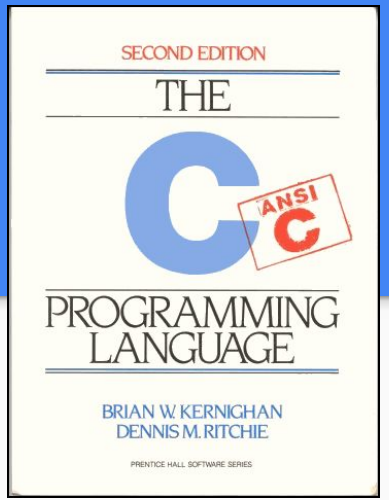
# When Submitting the Code...

Add comment at the top of the page with…

- Your name
- Course title
- Lab number
- Lab time and date

```
/* Emma Allegrucci
 * COEN 10
 * Lab 5
 * Monday 2:15pm
 */
```

# Helpful Resources




*** “The C Programming Language, 2nd Edition” ***

C: https://devdocs.io/c/

C: https://www.tutorialspoint.com/c_standard_library/index.htm

Terminal commands:
https://cheatography.com/davechild/cheat-sheets/linux-command-line/

Vim commands: https://vim.rtorr.com/