## CS 240 - Homework 5

Assigned: Monday, 3.27.17

Due: Monday, 4.3.17, 4:00pm

Make a subdirectory "hw5" in your cs240 folder for this assignment and copy the files from /courses/cs240/s16/jmcurran/GROUP/hw5.

#### Overview

In this assignment you'll start using pointers and compose a makefile.

Provided Files				
You are given 5 files to start:				
1.		This is a sample driver file. It uses the		
	main.c	functions you'll define to manipulate the		
		values in two integer variables.		
2.		Contains the function declaration for the		
	negate.h	function negate, which accepts a pointer to		
	inegace.ii	an int variable and negates it (e.g., -10		
		becomes 10 and vice versa).		
3.	swap.h	Contains the function declaration for the		
		function swap, which accepts pointers to		
		two int variables and swaps their values		
		(you can find this in the notes).		
4.		Contains the function declaration for the		
		function swapAndDrop, which accepts		
		pointers to two int variables and an int.		
		It swaps the values of the variables and		
		subtracts the int from both.		
5.		This file shows what your output should		
	_	look like if your functions and makefile		
		work correctly.		

## What you need to do

- Create .c files for each header that contain the definition of the function in the header.
- 2. Write a makefile to build an executable called main.

#### **Deliverables**

The following files should be in your hw5 folder when you are done:

are done:				
main.c	makefile			
swap.h	negate.h	swapAndDrop.h		
swap.c	negate.c	swapAndDrop.c		

# Grading

You will be graded on the following:

Adherence to cs240 style guidelines.

Use of pointers in function definitions.

Functionality of your makefile (does it produce an executable? does it provide a clean command?)

I will review your source files, run make, and run the executable main.

How to test your work:

Navigate to your hw5 folder and do the following:

\$ make

\$ make clean

\$ ./main

The majority of your grade will be based on whether the above series of commands produces output that matches that of sample.out.

# Notes

You can look at the L14 materials in the GROUP folder for an example makefile and use that as a template.

If you are confused about anything in this assignment, ask me about it.