EE 107 Homework 6: Due 1 Apr 13

- 1) The Fibonacci numbers are 0,1,1,2,3,5,8,13,... where each number is the sum of the two preceding numbers. Write a program that declares an array named fib_numbers of length 40 and fills the array with the first 40 Fibonacci numbers using a loop. Then prints the numbers to the screen.
- 2) Write a declaration for a two-dimensional array named temperature_readings that stores one month of hourly temperature readings. (For simplicity, assume that a month has 30 days.) The rows of the array should represent days of the month. The columns should represent hours of the day.
- Assuming the array of problem 2) contains valid data, use it to construct a program fragment that computes the average temperature for a month (averaged over all days of the month and all hours of the day).
- 4) Write a program to read in a sentence from the user (maximum 80 characters including punctuation) and writes the sentence to the screen with every word having the first letter capitalized. For example:

Enter a sentence: Hello. I am writing this line! Hello. I Am Writing This Line!

5) Write a program to request a first and last name from the user and write to the screen the last name then the initial of the first name separated by a comma and ended with a period. For example:

Enter name: Jim Thorp
Thorp, J.

Submit your code and a screenshot of your code execution. Do not forget to use comments and the comment header as described in class.