# EE 155 – Fall 2018

# Classwork Assignment 8

**For this classwork assignment you are encouraged to discuss with one or more of your classmates. However, each of you must finalize your reports and individually submit your programs (online) and your report (hardcopy, in class).**

**Due dates**

For problems in Part II below, online submission of programs due during lectures/discussion session. Re-submissions allowed until 8pm on Sunday, October 21. Please submit through the Vocareum website. The written report (hardcopy) due at the beginning of the lecture on Tuesday, October 23.

# Functions, functions, and functions

***Part I: Warm up review problems***

*Problems in this section are meant for you to review the material. Please do* ***not*** *submit your solutions to these problems. Of course, TAs and the instructor are available to answer any questions you have regrading these problems (and any other problems).*

1. Problem R6.4 from the textbook.
2. Problem R6.6 from the textbook.
3. Problem R6.7 from the textbook.
4. Problem R6.14 from the textbook.
5. Problem R6.22 from the textbook.

***Part II: Actual Classwork Problems***

*Problems in this section are meant for you to solve and submit. Please submit according to the instructions near the top of this page, namely please submit your programs via Vocareum and written report in class per above deadlines.*

*In all the following problems, please write the required function but also supply the main program that reads user inputs, calls the function, and prints the final results.*

1. **Problem R6.17 from the textbook. (x- and y-coordinates of smallest rectangle that cover a set of points)**
2. **Problem E6.2(b) from the textbook. (Shift elements of an array.)**
3. **Problem E6.3(f) from the textbook. (Move even elements to the front, preserving the order within even elements and within odd elements.)**
4. **Problem E6.7 from the textbook. (Reverse the elements of an array.)**
5. **Problem E6.9 from the textbook. (Check of two arrays have the same elements in some order.)**
6. **Problem E6.11 from the textbook. (Remove duplicates from an array.)**
7. **Write a program that prints all possible distinct “words” that can be obtained by permuting the letters of the word *ask*. (Note: A “word” here refers to a sequence of letters and need not be in the dictionary.**