

**EE2372 – Software Design 1**  
**Spring 2010**  
**TTh 10:30 – 11:50, CRBL 301**  
**Assignment 7 – Arrays and Sorting**

<b>Instructor: Dr. Gerardo Rosiles</b> <b>Engineering Annex 304</b> <b>Office hours: MTThF 1:30-2:30</b> <b>Phone: 747-7956</b> <b>e-mail: <a href="mailto:grosiles@utep.edu">grosiles@utep.edu</a></b>	
---	--

Assigned: March 30, 2010  
Due Date: April 6, 2010

READING: Chapter 7 and Chapter 8 of Stephen Kochan's book

1. Do book problem 2 in Chapter 7.
2. Implement the flowchart developed in class to sort an array from lowest to highest value. Your program should provide the following:
  - 1) Accept an array of integers between 5 and 10 elements.
  - 2) Ask the user to enter a value between 5 and 10.
  - 3) Ask the user to enter each element, one at a time using scanf.
  - 4) Print the array out of order.
  - 5) Print the array in order.

Use some nice formatting when printing the arrays. At least announce which array is being printed beforehand.

Hint: Look at Program 8.12 in your book for another solution to this problem and an example on how to print the results. **Homework showing this or other solutions that do not adhere to the solution derived in class will not receive credit.**

Turn in: Your C code for both problems as a xxx.c file with the following format:

firstname\_lastname\_hw7\_problem1.c  
firstname\_lastname\_hw7\_problem2.c

So if your name is Rey Misterio Jr then your file names should be:

Rey\_Misterio\_Jr\_hw7\_problem1.c  
Rey\_Misterio\_Jr\_hw7\_problem2.c

**Homework will not be accepted if the files are not named like this.**

GO TO NEXT PAGE.....

Grading:

1) 60% your code will be checked for consistency, to check that you covered the elements described in the flowchart, and to make sure everyone did their own work.

2) 40% if your code works (i.e., runs on a computer after compilation) as required then you will get this part of the grade. If the code does not work at all you will get 0%. Anything in between will get some partial credit.

It is very important you send questions and come to my office if you ran into problems. Please do not try to get this working two hours before it is due, I may not be able to answer questions in such a short period.