Fall 2010
CSC 4304 – Systems Programming
Homework Assignment #1

The due date is: September 9th, Thursday, before the class. Late submission is **not** allowed. Copy all of your code into a text file, rename it to **hw1_yourlastname**, and email to **thanks@csc.lsu.edu**, cc to **kosar@cct.lsu.edu**

Problem 1:

Write a function my_strncpy() that copies one string into another just like strncpy(). You can only use <stdio.h> in your program.

Problem 2:

Write a function my_strcmp() which takes two strings and compares them (similar to strcmp). If two strings are equal, return 0, else return any other value. You can only use <stdio.h> in your program.

Problem 3:

In the main body of your program, create a structure with three integer fields. Write a function add_fields() which takes the structure as a parameter, adds the first two fields and stores the result in the third field. Function main() initializes the structure, calls the add_fields() function, then prints the fields of the structure.

Problem 4:

Write a program which takes two file names as argument from command line, reads the contents of the first file into the memory, and writes its contents to the second file in reverse order. You need to use file I/O functions such as open, close, read, write, lseek etc.