

CSE220: SYSTEMS FUNDAMENTALS I

Assignment 7

Due on 29 Nov, by 5PM

Each program should be written and tested separately (i.e., with a distinct “main”), but all should be handed-in in a single file. The results of the testing should be included in the same file, after each corresponding “main”.

You are advised to first carefully develop the corresponding algorithms.

1. Write a MIPS assembly-language program that does the following.
 - a. Reads ten integers into an array.
 - b. Prints out the elements of the array, one per line.
 - c. Sorts the integers in the array, without using another array.
 - d. Prints out the elements of the array, one per line.

The output of your program should include prompts and messages, and the code should include **meaningful** comments.

2. Write a MIPS assembly-language program that does the following.
 - a. Reads an entire character string in one go.
 - b. Prints the string out in reverse order.

Be sure to include **meaningful** comments in your code.