Lab #2 activity – 411G

Extend your computer program by adding the following features:

- > Add "Laboratory #2" menu option
- Add a submenu
- Add to the submenu the first option and implement its functionality Create an array of structures, with a size greater than 1, on the stack. The structure should have at least two members. Initialize its elements.

Output the contents of the array using pointer arithmetic.

Add the second option to the submenu

Create an array of doubles with a size greater than 1 in the heap. Initialize its elements.

Output the contents of the array using pointer arithmetic.

Add the third option to the submenu

Create a global array of ints y with a size greater than 1. Initialize its elements.

Output the contents of the array.

> Add 4th option to the submenu(optional, recommended)

On a 32-bit unsinged variable initialized with 0x00000000 perform the following operations:

Set bits #0, #1, #16, #17 and #21. Clear bit #16 Flip (toggle) bit #31 Perform a left shift with 5. Perform a right shift with 16. Print all 32 bits. Print the value of the variable in hexadecimal.

Note: For each lab activity you have to create a separated source file and its corresponding header file. At the end of the semester you should have a source tree similar to the following:

menu.h	lab1.c
menu.c	
main.c	lab7.h
lab1.h	lab7.c