

Lab 11

I have provided an **unchangeable** cscd240_s13_lab11Tester.c file. Your task is to write the functions.

You will need to create a structure named person.

The structure will contain:

```
char *fname;  
char *lname;  
int id;
```

The menu portion will contain:

- 1) Print the array sorted by last name
- 2) Print the array sorted by first name
- 3) Print the array sorted by id
- 4) Quit

You must verify range.

The input will come from a file, name entered by the user. You must ensure the file opens. You must use a library for opening the file and counting the lines/records

For the sorting you will have functions called:

- lastSort
- firstSort
- idSort

These functions will be passed to the builtin qsort function as a function pointer.

To Turn In

- Submit a zip file
 - Containing your C files and H file(s).
 - Your makefile – target is lab11
 - Include an output captures from running your program named cscd240_s13_lab11output.txt.
 - Include a valgrind run to ensure you are not leaking memory named cscd240_s13_lab11Valgrind
 - Your library named libfileutil.a

Your zip will be named your last name first letter of your first name lab11.zip (Example: steinerslab11.zip)