

## Lab 13

I have provided an **unchangeable** cscd240Lab13.c file. Your task is to write the functions.

HINT: There is only a small change between lab 12 and lab 13. Mainly in the fillArray function, and how the arrays are represented in the structure

The structure will contain:

```
char *street;  
char *city;  
char *state;  
int zip;
```

The menu portion will contain:

- 1) Print the array sorted by street
- 2) Print the array sorted by city
- 3) Print the array sorted by state than city
- 4) Print the array sorted by zip
- 5) Quit

You must verify range.

The input will come from a file, name entered by the user. You must ensure the file opens.

There is nothing tricky here, no hidden agenda, just trying to get you to work with structures that contain pointers.

You must use a 3 file format

### **To Turn In**

Submit a zip file

- Containing your C files and H file(s).
- Your makefile – target is lab13
- Include an output captures from running your program named cscd240Lab13output.txt.
- Include a valgrind run to ensure you are not leaking memory named cscd240Lab13Val.txt

Your zip will be named your last name first letter of your first name lab13.zip  
(Example: steinerslab13.zip)