### Program 4 - File I/O

All programs will be tested on the machines in the EB-G7 lab. If your code does not run on the system in this lab, it is considered non-functioning EVEN IF IT RUNS ON YOUR PERSONAL COMPUTER. Always check that your code runs on the lab machines before submitting.

### Driver Code and Test Files

### program4.c

names.txt

### Grading Rubric

**TOTAL: ?? points**

Test 1: Filter Initial Letter from Input File (?? points)

Test 2: Verify the Output File (?? points)

### Guidelines

**In this program, you will learn to**:

* Read from a file
* Write to a file

In this lab, you only need to implement a function “filter\_initial” to complete the following features:

* Takes “infile” (input file name), “outfile” (output file name), and “letter” (the target initial letter to search for)
* Opens the input file and reads the names in the file
* Finds and counts the names with the initial matches “letter”
* Copies and writes the matched names to the output file (one name per line). Overwrite the output file if exists.
* Handles an exception case when “outfile” is a NULL pointer. In this case, print the matched names to terminal (stdout) instead.
* Returns the count number of matched names