**LAB 10 ─ Argument & File Handling**

# Specification

We want to implement a simple “grep” like utility. In particular, the develop code will search an input file for a given pattern and prints line of the input file which contains the pattern.

1. **Implementation**

* The codes to be submitted are lab10.c, util.c and util.h. **Use the given template lab10.c, util.c** and  **util.h** and fill in your code. Submit your work with the following command. **The date for this lab is on Friday Aug 7, before 5:00PM**. **You can show your work to TAs during lab sessions or any TA’s office hour times**.

**submit 2031 lab10 lab10.c util.c util.h**

* You need to complete lab10.c based on given comments in the file. The main function tries to open the input and output files and call function search in util.c. Note that, if the output file is set to be “stdout”, you need to send the outputs to the standard output.
* Complete the search function in util.c and util.h.
* You should be able to compile your code using the following command:

**gcc lab10.c util.c –o lab10**

# Sample Inputs/Outputs

You can test your code using any text file to make sure it does work properly. I have downloaded [www.yorku.ca](http://www.yorku.ca) using “wget” and tested the code. See **lab10.out** for some test runs.