CPSC 223C Project 1 – grep (from ed), due Wednesday, 25 Mar 2020 Your name: Elnathan Yoon		
Finished	Not finished	Verify each of the following items with a corresponding checkmark Incorrectly marked items will incur a 5% penalty per item
V		Researched grep on the Unix man page for grep (type man grep)
✓		Researched ed on the Unix man page for ed (type man ed for ed(1)) game.
✓		Researched regex (regular expressions), and have experimented with using them in ed. Read through in detail the source code for ed (ed.c).
\checkmark		Duplicated ed.c's 1700+ lines of code, saved it as grep.c, and compiled it successfully.
\checkmark		Have used gdb or lldb debugger to step through code, and can demonstrate knowledge
✓		Have compressed source code to less than 600 lines, to have multiple expressions on the same line, to aid in understanding scope and function of each part of ed.
\checkmark		Contrasted your version and Unix's ed editor, and confirmed grep runs identically.
\checkmark		Changed your version's main so the program's user interface acts like grep, not like ed.
✓		Identified the code unlikely to be associated with the <code>grep</code> functionality, commented it out, and confirmed the code's grep features still work correctly.
\checkmark		Used a header file to prototype all functions in grep.h
\checkmark		Removed all unnecessary variables and functions from grep.c
✓		Confirmed the following functionality of your version of grep: '^Fred' search for Fred at beginning of line 'Fred.\$' search for Fred. at end of line '[FG]oo' * search for Foo or Goo '[0-9][0-9][0-9]' search for a California license plate number
\checkmark		grep can search for a string in one or more files
\checkmark		grep prints all lines (in all search files) matching the regexp string
✓		grep prints a leading filename and colon on each line if multiple files are searched
✓		Final souce code (uncompressed) is less than 700 lines (multiple declarations of same type on same line (e.g., int *pa, *pb, c, *pd;) is ok. If statements with one expression on one line, or functions with one line are ok (e.g. int min(int a, int b) { return a < b ? a : b; })
\checkmark		Final source code (uncompressed) is less than 600 lines
\checkmark		Final source code (uncompressed) is less than 500 lines
\checkmark		Final source code (uncompressed) is less than 400 lines
✓		The Project directory has been pushed to the above GitHub repository
Your comments		