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lab11.c Tue Apr 14 10:56:34 2020
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// Jessica Elkins
// CS332
// Lab 11
// 4/14/20
// This program prompts users to enter a UNIX command
// and executes the command using popen and pclose.
// TO COMPILE: gcc lab11.c -o lab11
// TO RUN: ./lab11
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
int main(int argc, char **argv) {
        FILE *fp;
        char line[BUFSIZ];
        char input[BUFSIZ];
        int length;
        // keep asking the user for input until they enter "quit"
        while((strcmp("quit", input) != 0)){
                // printing "Enter command"
                printf("Enter command: ");
                // storing the line the user entered into input string
                fgets(input, BUFSIZ, stdin);
                length = strlen(input);
                // getting rid of new line character at the end
                if(input[length-1] == ' \n')
                        input[length-1] = ' \setminus 0';
                // making sure it doesnt execute "quit" command
                if((strcmp("quit", input) != 0)){
                        // opening popen in read mode
                        if ((fp = popen(input, "r")) == NULL) {
                                perror("popen");
                                 exit(EXIT_FAILURE);
                        }
                        // diplaying popen results to standard out
                        while (fgets(line, BUFSIZ, fp) != NULL) {
                                 fputs(line, stdout);
                        }
                        // closing the file pointer
                        if (pclose(fp) == -1) {
                                 perror("pclose");
                                 exit(EXIT_FAILURE);
                        }
                }
        }
        printf("Exiting program...bye! \n");
        return 0;
}
```