

Advanced Programming

COEN 11, Fall 2014

Lab 8: recursion

You want to send Copy a file onto another reversing each line. An example of where that might be helpful is to reverse the lexicographical order of characters instead of ascending to descending.

Your program accepts the name of two files in the command line: argv[1] and argv[2]

- It reads the first file, line by line
 - Use fgets for reading the lines
`char *fgets(char *buffer, int size, FILE * fp);`
- Lines longer than the size of the buffer should be broken.
- Reverse each line using a recursive function
- Write each reversed line on the second file
 - Do not write one char at a time!

Two functions

- main
 - Reads lines from the first file
 - Pass each line to function reverse
 - Saves the reversed line to the second file
- reverse
 - Recursive function to reverse a line
 - You may use an extra array or not

Example:

`./a.out a b`

If File a has:

abc def ghi
mno pqr xyz

Then File b becomes:

ihg fed cba
zyx rqp onm