Exercise 1:

Given the following header and source files:

prog.h

```
typedef struct {
                                             #include <stdio.h>
 int total chars;
                                             #include <stdlib.h>
  int letters count;
                                             #include "prog.h"
 int words count;
  int lines count;
                                            int main() {
  int max line length;
} FileStats;
                                               /* local var declarations */
/* returns 1 if param is a letters
                                               fsp = process file("wcs.txt");
  and 0 otherwise */
int is letter(char);
                                               /* printf the returned stats */
/* takes a filename as a string param
                                               lines = get lines("wcs.txt");
and returns a pointer to a FileStats
structure, or NULL on failure */
                                               return 0;
FileStats* process file(char*);
                                            }
                                            /* define the functions
/* takes a filename as a string param
and returns an array contains all the
                                               you can write function stubs
lines of the file, or NULL on failure
                                                 during development */
* /
```

prog.c

1. Launch the terminal

char** get lines(char*);

- 2. Create a new directory with the name "Labo8" inside "CSC215"
- 3. Write a C file "prog.c" the contains that:

	a. impl	ements the function is_letter	1 point
	b. impl	ements the function process_file	3 points
	c. impl	ements the function get_lines	3 points
2.	Complete the	function main so the program does what is required.	1 point

Note: words are separated be no-alphabetic characters.

Assignment:

Add to your program the function:

void write_rev(char*, char**, int);

Which takes a filename as a string parameter, an array of strings and the number of strings as an integer, and stores the strings in a text file called filename in a reversed order (i.e the first string should be the last line of the file, ...).

Then modify your main function to store the lines that was read from "wcs.txt" into the file "wcs-rev.txt" in reversed order. 2 points