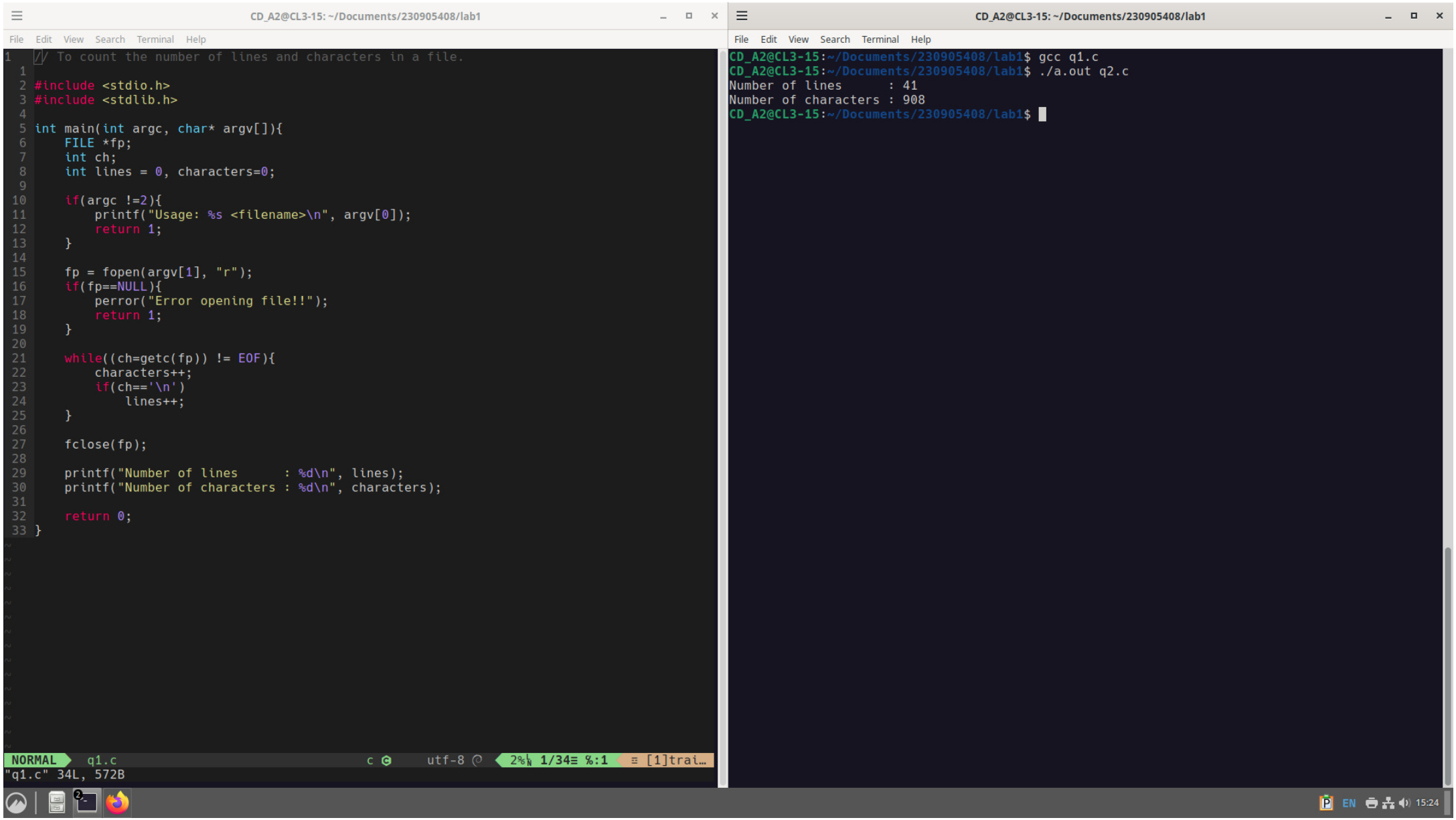
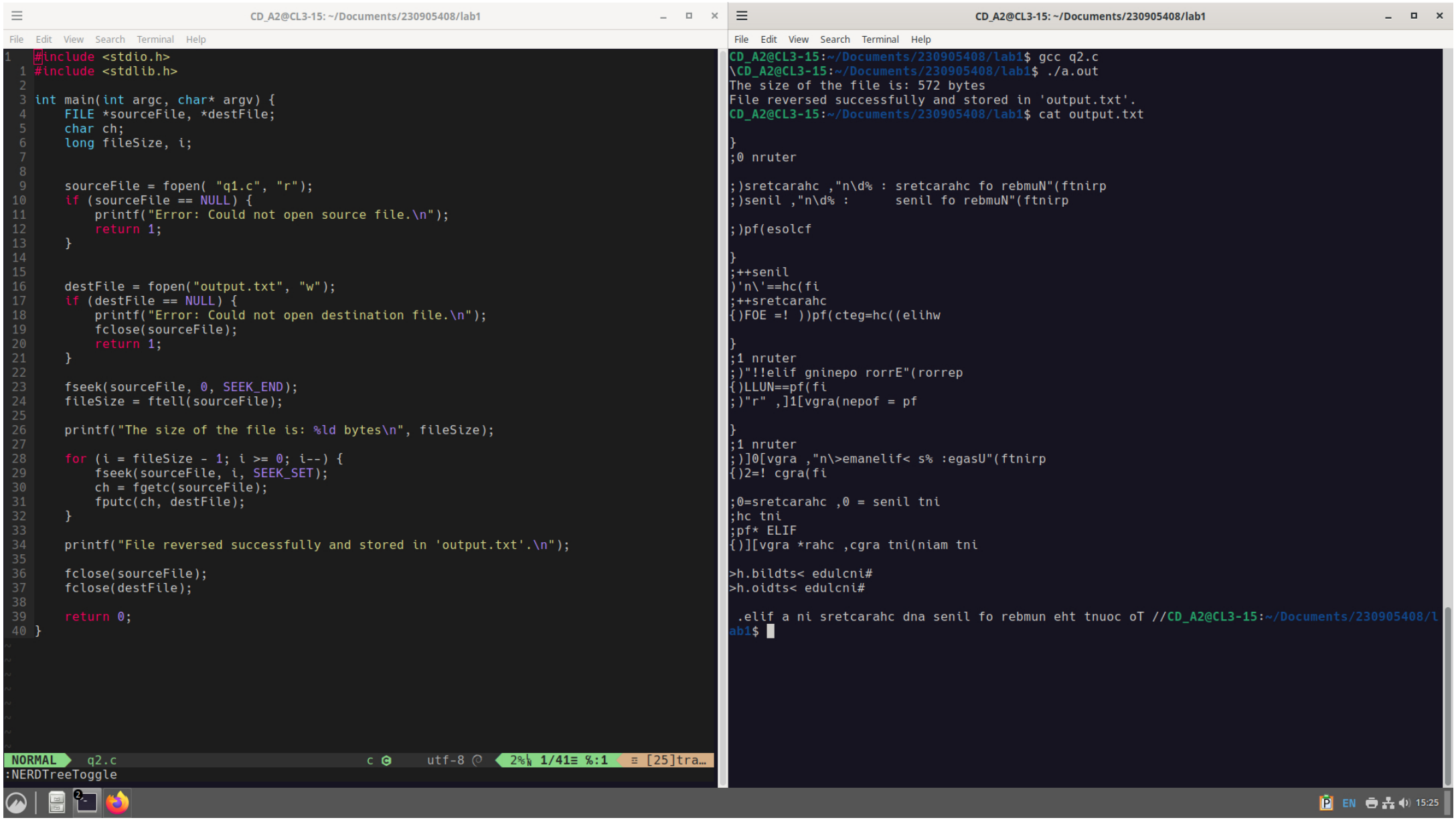
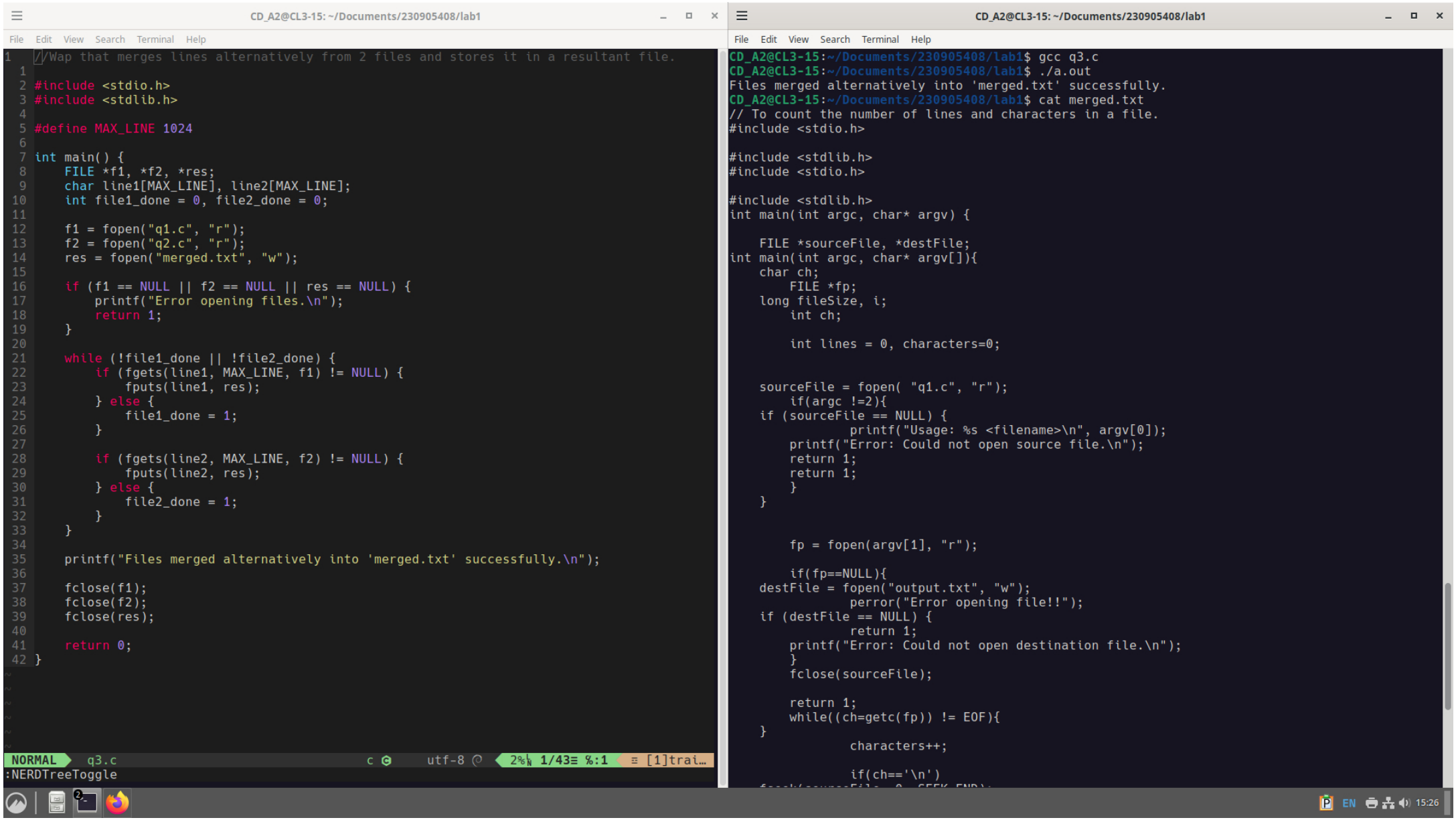

CD_A2@CL3-15: ~/Documents/230905408/lab1
File Edit View Search Terminal Help
// To count the number of lines and characters in a file.
#include <stdio.h>
#include <stdlib.h>
int main(int argc, char* argv[]){
FILE *fp;
int ch;
int lines = 0, characters=0;
if(argc !=2){
printf("Usage: %s <filename>\n", argv[0]);
return 1;
}
fp = fopen(argv[1], "r");
if(fp==NULL){
perror("Error opening file!!");
return 1;
}
while((ch=getc(fp)) != EOF){
characters++;
if(ch=='\n')
lines++;
}
fclose(fp);
printf("Number of lines : %d\n", lines);
printf("Number of characters : %d\n", characters);
return 0;
}
NORMAL q1.c c utf-8 2% 1/34 %:1 [1]trai…
"q1.c" 34L, 572B
CD_A2@CL3-15: ~/Documents/230905408/lab1
File Edit View Search Terminal Help
CD_A2@CL3-15:~/Documents/230905408/lab1$ gcc q1.c
CD_A2@CL3-15:~/Documents/230905408/lab1$ ./a.out q2.c
Number of lines : 41
Number of characters : 908
CD_A2@CL3-15:~/Documents/230905408/lab1$
EN 15:24


CD_A2@CL3-15: ~/Documents/230905408/lab1
File Edit View Search Terminal Help
#include <stdio.h>
#include <stdlib.h>
int main(int argc, char* argv) {
FILE *sourceFile, *destFile;
char ch;
long fileSize, i;
sourceFile = fopen("q1.c", "r");
if (sourceFile == NULL) {
printf("Error: Could not open source file.\n");
return 1;
}
destFile = fopen("output.txt", "w");
if (destFile == NULL) {
printf("Error: Could not open destination file.\n");
fclose(sourceFile);
return 1;
}
fseek(sourceFile, 0, SEEK_END);
fileSize = ftell(sourceFile);
printf("The size of the file is: %ld bytes\n", fileSize);
for (i = fileSize - 1; i >= 0; i--) {
fseek(sourceFile, i, SEEK_SET);
ch = fgetc(sourceFile);
fputc(ch, destFile);
}
printf("File reversed successfully and stored in 'output.txt'.\n");
fclose(sourceFile);
fclose(destFile);
return 0;
}
NORMAL q2.c c utf-8 2% 1/41 %:1 [25]tra…
:NERDTreeToggle
CD_A2@CL3-15: ~/Documents/230905408/lab1
File Edit View Search Terminal Help
CD_A2@CL3-15:~/Documents/230905408/lab1$ gcc q2.c
\CD_A2@CL3-15:~/Documents/230905408/lab1$ ./a.out
The size of the file is: 572 bytes
File reversed successfully and stored in 'output.txt'.
CD_A2@CL3-15:~/Documents/230905408/lab1$ cat output.txt
}
;0 nruter
;)sretcarahc ,"n\d% : sretcarahc fo rebmuN"(ftnirp
;)senil ,"n\d% : senil fo rebmuN"(ftnirp
;)pf(esolcf
}
;++senil
)'n\'==hc(fi
;++sretcarahc
{)FOE =!))pf(cteg=hc((elihw
}
;1 nruter
;)"!!elif gninepo rorrE"(rorrep
{)LLUN==pf(fi
;)"r" ,]1[vgra(nepof = pf
}
;1 nruter
;)]0[vgra ,"n\>emanelif< s% :egasU"(ftnirp
{)2=! cgra(fi
;0=sretcarahc ,0 = senil tni
;hc tni
;pf* ELIF
{)][vgra *rahc ,cgra tni(niam tni
>h.bildts< edulcni#
>h.oidts< edulcni#
.elif a ni sretcarahc dna senil fo rebmun eht tnuoc oT //CD_A2@CL3-15:~/Documents/230905408/lab1$
EN 15:25


CD_A2@CL3-15: ~/Documents/230905408/lab1
File Edit View Search Terminal Help
//Wap that merges lines alternatively from 2 files and stores it in a resultant file.
#include <stdio.h>
#include <stdlib.h>
#define MAX_LINE 1024
int main() {
FILE *f1, *f2, *res;
char line1[MAX_LINE], line2[MAX_LINE];
int file1_done = 0, file2_done = 0;
f1 = fopen("q1.c", "r");
f2 = fopen("q2.c", "r");
res = fopen("merged.txt", "w");
if (f1 == NULL || f2 == NULL || res == NULL) {
printf("Error opening files.\n");
return 1;
}
while (!file1_done || !file2_done) {
if (fgets(line1, MAX_LINE, f1) != NULL) {
fputs(line1, res);
} else {
file1_done = 1;
}
if (fgets(line2, MAX_LINE, f2) != NULL) {
fputs(line2, res);
} else {
file2_done = 1;
}
}
printf("Files merged alternatively into 'merged.txt' successfully.\n");
fclose(f1);
fclose(f2);
fclose(res);
return 0;
}
NORMAL q3.c c utf-8 2% 1/43 %:1 [1]trai…
:NERDTreeToggle
CD_A2@CL3-15: ~/Documents/230905408/lab1
File Edit View Search Terminal Help
CD_A2@CL3-15:~/Documents/230905408/lab1$ gcc q3.c
CD_A2@CL3-15:~/Documents/230905408/lab1$ ./a.out
Files merged alternatively into 'merged.txt' successfully.
CD_A2@CL3-15:~/Documents/230905408/lab1$ cat merged.txt
// To count the number of lines and characters in a file.
#include <stdio.h>
#include <stdlib.h>
#include <stdio.h>
#include <stdlib.h>
int main(int argc, char* argv) {
FILE *sourceFile, *destFile;
int main(int argc, char* argv[]){
char ch;
FILE *fp;
long fileSize, i;
int ch;
int lines = 0, characters=0;
sourceFile = fopen("q1.c", "r");
if(argc !=2){
if (sourceFile == NULL) {
printf("Usage: %s <filename>\n", argv[0]);
printf("Error: Could not open source file.\n");
return 1;
return 1;
}
}
fp = fopen(argv[1], "r");
if(fp==NULL){
destFile = fopen("output.txt", "w");
perror("Error opening file!!");
if (destFile == NULL) {
return 1;
printf("Error: Could not open destination file.\n");
}
fclose(sourceFile);
return 1;
while((ch=getc(fp)) != EOF){
}
characters++;
if(ch=='\n')
EN 15:26