



## B2 - Stumpers

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B-CPE-210

## TextCount

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Duo Stumper

# TextCount

binary name: `text_count`

language: C

compilation: via Makefile, including `re`, `clean` and `fclean` rules



- The totality of your source files, except all useless files (binary, temp files, obj files,...), must be included in your delivery.
- Error messages have to be written on the error output, and the program should then exit with the 84 error code (0 if there is no error).



For this project, the **only** authorized functions are those of the standard `libc`.

You are going to have to make a program that will display the number of occurrences of each character of the string `STR` that is passed as parameter.

By default, characters must be displayed in their order of appearance.



Usage: `./text_count [-r] [-t] STR [SEARCHED_CHARACTERS]`

`-r`: if set, group the characters having the same number of occurrences (see examples).

`-t`: if set, characters have to be sorted by number of occurrences (highest to lowest).

**SEARCHED CHARACTERS**: if a second string is passed as parameter, count the occurrences of characters in the `STR` but only for those present in `SEARCHED_CHARACTERS`



```
Terminal
~/B-CPE-210> ./text_count "abcdef"
a:1
b:1
c:1
d:1
e:1
f:1
~/B-CPE-210> ./text_count "!!!!!!!!"
!:8
~/B-CPE-210> ./text_count "aaffbcdef" "abdfg"
a:2
f:3
b:1
d:1
g:0
~/B-CPE-210> ./text_count "ffaabcdef" "aaa"
a:2
~/B-CPE-210> ./text_count "ffaabcdef" " "
~/B-CPE-210> ./text_count -t "aaffbcdef" "abdfg"
f:3
a:2
b:1
d:1
g:0
~/B-CPE-210> ./text_count -r "ffbaacdef"
f:3
b,c,d,e:1
a:2
~/B-CPE-210> ./text_count -r -t "aaffbcdef"
f:3
a:2
b,c,d,e:1
```