



# B2 - Stumpers

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B-CPE-210

## TextCount

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Duo Stumper





# TextCount

binary name: `text_count`  
repository name: `CPE_duostumper_$STUMPERNUMBER_$ACADEMICYEAR`  
repository rights: `ramassage-tek`  
language: `C`  
compilation: `via Makefile, including re, clean and fclean rules`



- Your repository must contain the totality of your source files, but no useless files (binary, temp files, obj files,...).
- 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).



The `$STUMPERNUMBER` is always on one digit: 1, 2, ...



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
```