



# B2 - Stumpers

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B-CPE-210

## Minicut

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Duo Stumper





# Minicut

binary name: minicut  
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: `malloc`, `free`, `write`, `read`, `getopt`, `getopt_long`, `fstat` and `lstat`.

You must create a C program that is capable of cutting up a text like the “cut” utility.

You have to implement the following options: `-c`, `-d`, `-f` and their long format version (`--characters`, `--delimiter`, `--fields`) but you only have to implement the reading from standard input.



man 1 cut



```
Terminal
~/B-CPE-210> head /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
~/B-CPE-210> head /etc/passwd | ./minicut -c 1
r
d
b
s
s
g
m
l
m
n
~/B-CPE-210> head /etc/passwd | ./minicut -c 1,2-5,8-
root:0:0:root:/root:/bin/bash
daemox:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:bin:/bin:/usr/sbin/nologin
sys:x:3:sys:/dev:/usr/sbin/nologin
sync:4:65534:sync:/bin:/bin/sync
games:5:60:games:/usr/games:/usr/sbin/nologin
man:x:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:8:8:mail:/var/mail:/usr/sbin/nologin
news:9:9:news:/var/spool/news:/usr/sbin/nologin
~/B-CPE-210> head -n 5 /etc/passwd | ./minicut -d ':' -f 1,4-6,7,9,11
root:0:root:/root:/bin/bash
daemon:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:2:bin:/bin:/usr/sbin/nologin
sys:3:sys:/dev:/usr/sbin/nologin
sync:65534:sync:/bin:/bin/sync
~/B-CPE-210> head /etc/passwd | ./minicut -d ':' &>/dev/null; echo $?
84
```