



B2 - Stumpers

B-CPE-210

Cesar

Duo Stumper





Cesar

binary name: cesar
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`.

The Cesar code is considered to be the oldest of substitution cipher algorithms, given that Julius Caesar used it.

The technique is basic:

all you have to do is replace each letter of the text to be encrypted with the letter that is located n places later in the alphabet (non-alphabetic characters don't change).

For example, if n is worth 3, A is replaced by D, B by E, C by F and so on.

"HERE IS A SIMPLE EXAMPLE!" then becomes "KHUH LV D VLPSOH HADPSOH!" (with a key of 3).



You must handle null, negative and positive keys.

Write a program that takes a crypted file and a number as parameters, and that decrypts the content of the file using the Cesar code (with the number as key).



Use your program to decrypt the following message that contains more instructions:

```
Myxqbkdevkdsyxc, iye cemmoonon sx nombizdsxq drsc wocckqo
```

```
Dro bokv celtomd sc dy gbsdo k zbyqbkw dy oxmbizd k psvo yb
```

```
cdbsxq kxn gbsdo dro bocevd sx k psvo xkwon 'mbizd'.
```

```
Dy oxmbizd k psvo go gsvv eco dro '-p' zkbkwodob, pyb k cdbsxq go gsvv eco '-c'.
```

```
Csxmo sd sc k mbizdon psvo, xylyni cryevn lo klvo dy wynspi sdc myxdoxdc,
```

```
drkd'c gri iyeb zbyqbkw cryevn cod dro bokn-yxvi bsqrdc dy dro 'mbizd' psvo.
```

```
Eckqo: ./mockb -p psvoxkwo uoi YB ./mockb -c "cdbsxq" uoi
```