

# **Exercises** — The ASCII carousel

version #



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#### 1 The ASCII carousel

#### Files to submit:

ascii\_carousel/rot\_x.c

Main function: None

**Authorized headers:** You are only allowed to use the functions defined in the following headers:

- · err.h
- · assert.h
- stddef.h
- · errno.h

#### 1.1 Goal

Write a function that performs a Caesar shift of X ("rotX") on a string. Only the alphabetical characters (belonging to the class of characters [A-Za-z]) must undergo the shift. The expected function prototype is:

```
void rot_x(char *s, int x);
```

Your rot\_x function must allow both positive and negative numbers.

**Tips** 

If s is null, your function should do nothing.

#### 1.2 Example

This example uses the following main.c:

42sh\$ gcc -std=c99 -Wall -Wextra -Werror -pedantic -o test main.c rot\_x.c

42sh\$ ./test

In: Shhh ShE is ZZZzZO59%
Out: Fuuu FuR vf MMMmM059%

It is my job to make sure you do yours.