Exercises — ASCII Carousel

version **#7be580532266ed398481e31366afcc24b1950c2a**

The way is lit. The path is clear.
We require only the strength to follow it.

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Contents

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File Tree

```
ascii_carousel/
└── rot_x.c   (to submit)
```

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

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

Compilation : Your code must compile with the following flags

- -std=c99 -pedantic -Werror -Wall -Wextra -Wvla

Main function : None

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.

2 Example

This example uses the following main.c:

```c
#include <stdio.h>

int main()
{
    char in[] = "Shhh ShE is ZZZzZ059%";

    printf("In: %s\n", in);
    rot_x(in, 13);
    printf("Out: %s\n", in);

    return 0;
}
```

```
42sh$ gcc -std=c99 -Wall -Wextra -Werror -pedantic -o test main.c rot_x.c
42sh$ ./test
In: Shhh ShE is ZZZzZ059%
Out: Fuuu FuR vf MMMmM059%
```

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