Exercises — Bit Rotation

version **#7be580532266ed398481e31366afcc24b1950c2a**

Assistants C/Unix 2023 <assistants@tickets.assistants.epita.fr>

Copyright

This document is for internal use at EPITA (website) only.

Contents

*https://intra.assistants.epita.fr

File Tree

```
bit_rotation/
└── rol.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

Rotate the bits of `value` by `roll` rolls to the left. Each roll will shift the bits by one bit in the left direction. The leftmost bits are placed on the right.

```
[1]1101010 -> 1101010[1]
```

The prototype:

```c
unsigned char rol(unsigned char value, unsigned char roll);
```

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