

EXERCISES — Bit Rotation

version #7be580532266ed398481e31366afcc24b1950c2a



Copyright

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

Copyright © 2022-2023 Assistants <assistants@tickets.assistants.epita.fr>

The use of this document must abide by the following rules:

- ▶ You downloaded it from the assistants' intranet.*
- ▶ This document is strictly personal and must **not** be passed onto someone else.
- ▷ Non-compliance with these rules can lead to severe sanctions.

Contents

1 Goal 3

^{*}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:

```
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.