



# C Piscine

Day 24

The Spy Who Coded me

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*Summary: THE FOLLOWING TAKES PLACE BETWEEN 7.00 A.M. AND 8.00 A.M.*

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# Chapter 1

## Instructions

- The exercises are carefully laid out in order of difficulty, from easiest to hardest. An exercise is only graded if all previous ones are correct. In other words: the grading for a day stops at the first mistake.
- Be mindful of the submission procedures indicated at the start of every exercise.
- Your exercises will be checked and graded by your fellow classmates.
- On top of that, your exercises will be checked and graded by a program called Moulinette.
- Moulinette is very meticulous and strict in its evaluation of your work. It is entirely automated and there is no way to negotiate with it. Be as thorough as possible!
- Moulinette relies on a program called **norminette** to check if your files respect the Norm. An exercise containing files that do not respect the Norm will be graded 0.
- Using a forbidden function is considered cheating. Cheaters get -42, and this grade is non-negotiable.
- If **ft\_putchar()** is an authorized function, we will compile your code with our **ft\_putchar.c**.
- You'll only have to submit a **main()** function if we ask for a program.
- Moulinette compiles with these flags: **-Wall -Wextra -Werror**, and uses **gcc**.
- If your program doesn't compile, it will be graded 0.
- You should not leave any additional file in your directory than those specified in the subject.



For this day, **norminette** is launched without any particular flag!

# Chapter 2

## Austin IV

It's crazy how a female-bot can handle so well punches. Even after a battle against Frau Farbissina, Donnie Matrix was always resplendent. It shouldn't surprise me though : I was married to a female-bot, delicious Vanessa Kensington. Ah ! So many foiled plans of Dr. Evil together ! At first she was resistant to my charms, but she quickly fell into the net of love I held her. I remember like it was yesterday when we first met ...

« Austin ! AUSTIN ! Stop dreaming, or I slap you... Oh, whatever, this time it's too much. »

Sbaaaam. Outch, my cheek !

« Baby, behave, you have an iron hand, and a glove made of synthétique skin !

- We won against an old blind guy and a granny, nothing glorious there. Our real enemy is leaving. We should focus. Dr Evil is going to kidnap the President Justinus Obama. How could we stop Dr Evil ?

I decided to think about it. Female-bots like brains.

Outch, it hurt !

We can always follow Dr. Evil. To avoid being discovered, he probably choosed a rudimentary means of transportation, like a ... a ... Dr Evil-mobile. These devices leave marks on the road. Getting in the Shaguar identifying each intersections borrowed by Dr. Evil, we will find him.

# Chapter 3

## ft\_active\_bits.c

Use this exercise to find traces of Dr Evil.

Turn-in directory : ex16/

Files to turn in: ft\_active\_bits.c

Allowed functions: None

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- Create a function `ft_active_bits` which returns the number of active bits in the int passed as argument.
- Here's how it should be prototyped :

```
unsigned int  ft_active_bits(int value);
```