



C Piscine

Day 24  
The Spy Who Coded me

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

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# Chapter I

## Instructions

- Only this page will serve as reference: do not trust rumors.
- Watch out! This document could potentially change up to an hour before submission.
- Make sure you have the appropriate permissions on your files and directories.
- You have to follow the submission procedures for 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. So if you want to avoid bad surprises, be as thorough as possible.
- Moulinette is not very open-minded. It won't try and understand your code if it doesn't respect the Norm. Moulinette relies on a program called **Norminator** to check if your files respect the norm. TL;DR: it would be idiotic to submit a piece of work that doesn't pass **Norminator**'s check.
- These exercises are carefully laid out by order of difficulty - from easiest to hardest. We **will not** take into account a successfully completed harder exercise if an easier one is not perfectly functional.
- 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, you'll get 0.
- You cannot leave any additional file in your directory than those specified in the subject.
- Got a question? Ask your peer on the right. Otherwise, try your peer on the left.
- Your reference guide is called `Google / man / the Internet / ....`
- Check out the "C Piscine" part of the forum on the intranet.
- Examine the examples thoroughly. They could very well call for details that are not explicitly mentioned in the subject...
- By Odin, by Thor ! Use your brain !!!

# Chapter II

## 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. Ouch, 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.


Ouch, 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 III

## ft\_active\_bits.c

Use this exercise to find traces of Dr Evil.

	Exercice : 16
	ft_active_bits.c
Turn-in directory : <i>ex16/</i>	
Files to turn in : <b>ft_active_bits.c</b>	
Allowed functions : <b>Nothing</b>	
Remarks : <b>n/a</b>	

- 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);
```