



C Piscine

Day 24
The Spy Who Coded me

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

Donnie Matrix II

« It's wasn't necessary to wet the sheets, Austin, the bomb is diffused.

- The mattress is leaking, i'm innocent Donnie, i've got no plumbing issues on my side !
- Dr Evil will not stop trying to annihilate us, that's why we need to annihilate him first.
- Let's not jump on conclusions and enjoy this instant of intimacy...
- I don't jump on conclusions : There was a letter signed by Dr Evil attached to the bomb. »

For the first time since our first encounter, i saw a glimps of concern into Austin's eyes. At last he's being serious now.

« What is this letter about ? If Dr Evil was able to infiltrate anonymously into one of my bunkers, nowhere is safe anymore.

- Usual claims, Austin Powers i'll kill you, i want a ransom, a lot of evil laughs, you'll never stop my female-bots... followed by gibberish characters that don't make sense ?
- Show me, show me. In addition to being an attentive love, i've had cryptography lessons.
- Really, Austin ? You're surprising me all the time !
- Her name was Sophie Ligrane, she's was good with her fingers ... »


It was too good to be true. Austin Powers, serious for a few seconds ? Impossible.

« Focus on the subject. Can you decrypt this part of the message ? Seems like coordinates... »

Chapter III

ft_rot42.c

Assist Austin in teaching Donnie how to make a rot42, this is what differentiates men from little boys.

| | |
|---|--------------------------------------|
|  | Exercice : 04 |
| | ft_rot42.c |
| | Turn-in directory : <i>ex04/</i> |
| | Files to turn in : ft_rot42.c |
| | Allowed functions : Nothing |
| | Remarks : n/a |

- Create a function `ft_rot42` which takes the string passed as argument and rotates the appropriate characters by 42.
- Here's how it should be prototyped :

```
char *ft_rot42(char *str);
```



If you're not sure what you're supposed to do here, know that `rot13` already exists... Don't check out `rot47` !