C Piscine

Day 24
The Spy Who Coded me

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Summary: *THE FOLLOWING TAKES PLACE BETWEEN 3.00 A.M. AND 4.00 A.M.*

Contents

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

Dr Evil V

« Austin Powers and Donnie Matrix are surrounded, Dr Evil, confirmed No 42. Should we arrest them ?
- Good answer, good answer ! Because what do we do when the intruders infiltrate our HQ ? Frau Farbissina, maybe ?
- We arrest THEM... ?
- 100% again, i can really feel this place is inspiring you ! Come we'll take the lift. »

We're going out of the board room - « Frau, switch off the lights, let's think a little about ecology of the planet that we'll destroy » – and let's go through what seems to be an empty field to get to the lift of my HQ. Ding.

« Ah, It's in the basement right now, let's wait a little shall we ? »

I hate to wait. Everybody is looking at me and expect me to start a conversation.

« So... Frau Farbissina... What do you think about the weather ?
- Hmm. It's nice ! »

At last, the lift stops at our level.

« Come on, come on, everybody in ! No 42, Frau, the one-legged clown, the dessert chariot, the pony, my decoy... Attention, i'm pressing the button 0! »

Grrrik. Grrrrriiiiikkkk.

Schboom.

« Dr Evil, i think we're stuck.
- Well done again No 42! We're too heavy, someone didn't go to the

compulsory aerobic ! »

Inside myself, i cry.

Chapter 3

ft_door

Dr Evil is stuck in an elevator without conversation. Help him get out this terrible hell hole.

Turn-in directory : **ex12/**

Files to turn in: **ft_door.h, ft_door.c**

Allowed functions: **write**

- Create the file ft_door.h and fix the following ft_door.c file :

```c
#include "ft_door.h"

ft_putstr(char *str)
{
        int i = 0;

        while (str[i])
                write(1, str, i)
}

ft_bool close_door(t_door *door)
{
        ft_putstr('Door closing...');
        state = CLOSE;
        return   (TRUE);
}

void is_door_open(t_door door)
{
        ft_putstr("Door is open ?");
        return (door->state = OPEN);
}

ft_bool is_door_close(t_door* door)
{
        ft_putstr("Door is close ?") ;
}
```

- Here's an example of main and output.

```
$> cat main.c
#include <stdlib.h>
#include "ft_door.h"

int main()
{
    t_door      door;

    open_door(&door);
    if (is_door_close(&door))
        open_door(&door);
    if (is_door_open(&door))
        close_door(&door);
    if (door.state == OPEN)
        close_door(&door);
    return (EXIT_SUCCESS);
}
$>./ft_door | cat -e
Door opening...$
Door is close ?$
Door is open ?$
Door closing...$
$>
```