



# C Piscine

Day 24

The Spy Who Coded me

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*Summary: THE FOLLOWING TAKES PLACE BETWEEN 9.00 A.M. AND 10.00 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

## Vanessa Kensington

For a long time nobody reactivated my processor. Of course, I've been destroyed in an explosion, but my software has been downloaded in another model. I remained hibernating all this time. 12 hours ago, someone reactivated me. My meeting with Austin made me a different female-bot, capable of its own actions. When all my sisters destroyed the factory that we were in, I preferred to follow my instincts. I love Austin, I always did.

I have been looking for him on the Internet. I infiltrated without shuddering the secret headquarters of Dr. Evil's network. I got his plans and went to the President to protect him.

But I failed.

When Dr. Evil came before me, his « laser » gun in one hand and a jar of marmite half opened in the other, I lost my composure. These unbearable images reminded me of a moment of weakness : one where, exploding, I almost took Austin's life many years ago. Why must a female-bot always behave like a women-bot ?

« Never again », I thought when falling on my knees. I would never hurt anyone again just because I've been coded this way. I felt my synthetic synapses failed. I had to obey Dr. Evil and hurt Austin. I resisted.

But at what cost ?

Too many times, we ask ourselves if androids dream of Electric Sheep. But who knows that female-bots can actually cry ?

I would like to see Austin Powers one last time ...

# Chapter 3

## ft\_join.c

Grant Vanessa Kensington's last wish by allowing Austin to reunite with her.

Turn-in directory : ex18/

Files to turn in: ft\_join.c

Allowed functions: malloc

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- Create a function `ft_join` that merges the array given as a parameter into one single character string. The separation argument will serve as "glue" between elements.
- Here's how it should be prototyped :

```
char *ft_join(char **tab, char *sep);
```



Smells like a reuseable function, does it not ?



You should know how arrays end when coded properly...