



C Piscine

Day 24  
The Spy Who Coded me

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*Abstract: THE FOLLOWING TAKES PLACE BETWEEN 10.00 A.M. AND 11.00 A.M.*

# Contents

<b>I</b>	<b>Instructions</b>	<b>2</b>
<b>II</b>	<b>Austin Powers V</b>	<b>4</b>
<b>III</b>	<b>ft_unmatch.c</b>	<b>5</b>

# 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 Powers V

« I'm here, Vanessa, I'm here. »

I will recognize this female-bot among thousands others.

« Austin, she whispered lying on the ground in a last breath. Thank you. SELF-DESTRUCTION IN 7 SECONDS. 22. 11. 34. 17... »

I caught Donnie Matrix and we went in pursuit of Dr. Evil.

« According to my informations, she said, Dr. Evil has already captured the President and brought him in the gardens of the Elysee Palace. Come, we just need to push this double - door... »

And the nightmare continued. Everywhere, on the lawn, female-bots and male-bots. All the female-bots looked like Donnie. All male-bots like President Justinus Obama.

« Austin ! screamed the thousand female-bots. I am the true Donnie, the rest are decoys !  
- Don't listen to them, answered the thousand male-bots. This is a scam, I'm the real president ! »

I took Donnie's hand - my Donnie Matrix. If it's not paradise, looks juts like it.

« I'll start with personally interviewing all of them... It will take me some time I guess...  
- We don't have enough time ! If my calculs are correct, the President has to leave in a few minutes for the moon, else the plan of Dr. Evil may not realised. Think with your head for once! »


A new idea crossed my mind. Outch, it tickles.

« Baby, it's time to play a little game I like to call... Find the intruder ! »

# Chapter III

## ft\_unmatch.c

One of these elements is not like the others...  
Help Austin find the real President.

	Exercice : 19
	ft_unmatch.c
Turn-in directory : <i>ex19/</i>	
Files to turn in : <b>ft_unmatch.c</b>	
Allowed functions : <b>Nothing</b>	
Remarks : <b>n/a</b>	

- Create a function `ft_unmatch` that returns the value of the element in the array that doesn't have a corresponding pair.
- Here's how it should be prototyped :

```
int ft_unmatch(int *tab, int length);
```

- We guarantee there is only one element without a pair.
- Couple of small examples to make things easier :
- In the array [1, 1, 2, 3, 4, 3, 4], the element without a pair is 2.
- In the array [1, 1, 2, 4, 3, 4, 2, 3, 4], the element without a pair is 4.