



C Piscine

C 06

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Summary: This document contains the subject for the C 06 module of the C Piscine at 42.

Version: 8

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Chapter I

Instructions

- Only this page serves as your reference, do not trust rumors.
- Watch out! This document may change before submission.
- Ensure you have the appropriate permissions on your files and directories.
- You must follow the **submission procedures** for all your exercises.
- Your exercises will be checked and graded by your fellow classmates.
- Additionally, your exercises will be evaluated by a program called **Moulinette**.
- **Moulinette** is meticulous and strict in its assessment. It is fully automated, and there is no way to negotiate with it. To avoid unpleasant surprises, be as thorough as possible.
- **Moulinette** is not open-minded. If your code does not adhere to the Norm, it won't attempt to understand it. **Moulinette** relies on a program called **norminette** to check if your files comply with the Norm. TL;DR: Submitting work that doesn't pass **norminette**'s check makes no sense.
- These exercises are arranged in order of difficulty, from easiest to hardest. We **will not** consider a successfully completed harder exercise if an easier one is not fully functional.
- Using a forbidden function is considered cheating. Cheaters receive a grade of **-42**, which is non-negotiable.
- You only need to submit a **main()** function if we specifically ask for a **program**.
- **Moulinette** compiles with the following flags: **-Wall -Wextra -Werror**, using **cc**.
- If your program does not compile, you will receive a grade of **0**.
- You **cannot** leave **any** additional file in your directory beyond those specified in the assignment.
- Have a question? Ask the peer on your right. If not, try the peer on your left.

- Your reference guide is called **Google / man / the Internet / ...**
- Check the "C Piscine" section of the forum on the intranet or the Piscine on Slack.
- Carefully examine the examples. They may contain crucial details that are not explicitly stated in the assignment...
- By Odin, by Thor! Use your brain!!!



Norminette must be run with the `-R CheckForbiddenSourceHeader` flag.
Moulinette will use it as well.

Chapter II

AI Instructions

● Context

The C Piscine is intense. It's your first big challenge at 42 — a deep dive into problem-solving, autonomy, and community.

During this phase, your main objective is to build your foundation — through struggle, repetition, and especially **peer-learning** exchange.

In the AI era, shortcuts are easy to find. However, it's important to consider whether your AI usage is truly helping you grow — or simply getting in the way of developing real skills.

The Piscine is also a human experience — and for now, nothing can replace that. Not even AI.

For a more complete overview of our stance on AI — as a learning tool, as part of the ICT curriculum, and as a growing expectation in the job market — please refer to the dedicated FAQ available on the intranet.

● Main message

- 👉 Build strong foundations without shortcuts.
- 👉 Really develop tech & power skills.
- 👉 Experience real peer-learning, start learning how to learn and solve new problems.
- 👉 The learning journey is more important than the result.
- 👉 Learn about the risks associated with AI, and develop effective control practices and countermeasures to avoid common pitfalls.

● **Learner rules:**

- You should apply reasoning to your assigned tasks, especially before turning to AI.
- You should not ask for direct answers to the AI.
- You should learn about 42 global approach on AI.

● **Phase outcomes:**

Within this foundational phase, you will get the following outcomes:

- Get proper tech and coding foundations.
- Know why and how AI can be dangerous during this phase.

● **Comments and example:**

- Yes, we know AI exists — and yes, it can solve your projects. But you're here to learn, not to prove that AI has learned. Don't waste your time (or ours) just to demonstrate that AI can solve the given problem.
- Learning at 42 isn't about knowing the answer — it's about developing the ability to find one. AI gives you the answer directly, but that prevents you from building your own reasoning. And reasoning takes time, effort, and involves failure. The path to success is not supposed to be easy.
- Keep in mind that during exams, AI is not available — no internet, no smartphones, etc. You'll quickly realise if you've relied too heavily on AI in your learning process.
- Peer learning exposes you to different ideas and approaches, improving your interpersonal skills and your ability to think divergently. That's far more valuable than just chatting with a bot. So don't be shy — talk, ask questions, and learn together!
- Yes, AI will be part of the curriculum — both as a learning tool and as a topic in itself. You'll even have the chance to build your own AI software. In order to learn more about our crescendo approach you'll go through in the documentation available on the intranet.

✓ **Good practice:**

I'm stuck on a new concept. I ask someone nearby how they approached it. We talk for 10 minutes — and suddenly it clicks. I get it.

✗ **Bad practice:**

I secretly use AI, copy some code that looks right. During peer evaluation, I can't explain anything. I fail. During the exam — no AI — I'm stuck again. I fail.

Chapter III

Foreword

Dialog from the movie The Big Lebowski:

The Dude: Walter, ya know, it's Smokey, so his toe slipped over the line a little, big deal. It's just a game, man.

Walter Sobchak: Dude, this is a league game, this determines who enters the next round robin. Am I wrong? Am I wrong?

Smokey: Yeah, but I wasn't over. Gimme the marker Dude, I'm marking it 8.

Walter Sobchak: [pulls out a gun] Smokey, my friend, you are entering a world of pain.

The Dude: Walter...

Walter Sobchak: You mark that frame an 8, and you're entering a world of pain.

Smokey: I'm not...

Walter Sobchak: A world of pain.

Smokey: Dude, he's your partner...

Walter Sobchak: [shouting] Has the whole world gone crazy? Am I the only one around here who gives a shit about the rules? Mark it zero!

The Dude: They're calling the cops, put the piece away.

Walter Sobchak: Mark it zero!

[points gun in Smokey's face]

The Dude: Walter...


Walter Sobchak: [shouting] You think I'm fucking around here? Mark it zero!

Smokey: All right, it's fucking zero. Are you happy, you crazy fuck?

Walter Sobchak: ...It's a league game, Smokey.

Chapter IV

Exercise 00 : ft_print_program_name


| | |
|---|-------------|
|  | Exercise 00 |
| ft_print_program_name | |
| Turn-in directory: <i>ex00/</i> | |
| Files to turn in: ft_print_program_name.c | |
| Allowed functions: write | |

- Since this is a program, your `.c` file must contain a `main` function.
- Write a program that displays its own name, followed by a new line.
- Example:

```
$>./a.out | cat -e
./a.out$
$>
```


Chapter V

Exercise 01 : ft_print_params


| | |
|---|-------------|
|  | Exercise 01 |
| ft_print_params | |
| Turn-in directory: <i>ex01/</i> | |
| Files to turn in: ft_print_params.c | |
| Allowed functions: write | |

- Since this is a program, your `.c` file must contain a **main** function.
- Write a program that displays its given arguments.
- Each argument should be printed on a new line, in the same order as in the command line.
- The program should display all arguments except `argv[0]`.
- Example:

```
$>./a.out test1 test2 test3 | cat -e
test1$
test2$
test3$
$>
```

Chapter VI


Exercise 02 : ft_rev_params

| | |
|---|-------------|
|  | Exercise 02 |
| ft_rev_params | |
| Turn-in directory: <i>ex02/</i> | |
| Files to turn in: ft_rev_params.c | |
| Allowed functions: write | |

- Since this is a program, your `.c` file must contain a **main** function.
- Write a program that displays its given arguments.
- Each argument should be printed on a new line, in the reverse order from the command line.
- The program should display all arguments except `argv[0]`.

Chapter VII

Exercise 03 : ft_sort_params

| | |
|---|-------------|
|  | Exercise 03 |
| ft_sort_params | |
| Turn-in directory: <i>ex03/</i> | |
| Files to turn in: ft_sort_params.c | |
| Allowed functions: write | |

- Since this is a program, your `.c` file must contain a **main** function.
- Write a program that displays its given arguments sorted in ASCII order.
- The program should display all arguments except `argv[0]`.
- Each argument should be printed on a new line.

Chapter VIII

Submission and peer-evaluation

Submit your assignment to your `Git` repository as usual. Only the work inside your repository will be evaluated during the defense. Be sure to double-check the names of your files to ensure they are correct.



You need to return only the files requested by the subject of this project.