

C Piscine C 01

Summary: This document is the subject of Module C 01 of the C Piscine at 42

Version: 5.5

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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.

- ullet 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!!!



Do not forget to add the $standard\ 42\ header$ in each of your .c/.h files. The norminette check its existence anyway!



Norminette must be launched with the -R CheckForbiddenSourceHeader flag. Moulinette will use it too.

Chapter II

Foreword

Vincent: And you know what they call a... a... a Quarter Pounder with Cheese in Paris?

Jules: They don't call it a Quarter Pounder with cheese?

Vincent: No man, they got the metric system. They wouldn't know what the fuck a Quarter Pounder is.

Jules: Then what do they call it?

Vincent: They call it a Royale with cheese.

Jules: A Royale with cheese. What do they call a Big Mac?

Vincent: Well, a Big Mac's a Big Mac, but they call it "Le Big Mac".

Jules: "Le Big-Mac." Ha ha ha ha. What do they call a Whopper?

Vincent: I dunno, I didn't go into Burger King.

At least one of the following exercices has nothing to do you with a Royale with cheese.

C Piscine

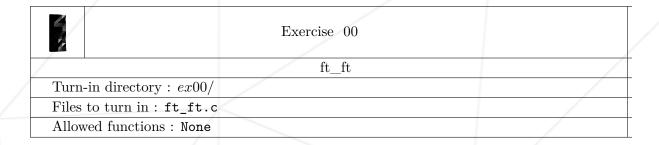
Today's threshold

The validation threshold for this project is 50%.

It is up to you to determine which exercises allow you to reach this threshold, and whether you want to complete more.

Chapter III

Exercise 00: ft_ft



- Create a function that takes a pointer to an int as a parameter and sets the value of that int to "42".
- The function should be prototyped as follows:

void ft_ft(int *nbr);

Chapter IV

Exercise 01: ft_ultimate_ft

Exercis	e 01
ft_ult	imate_ft
Turn-in directory : $ex01/$	
Files to turn in : ft_ultimate_ft.c	
Allowed functions: None	

- Create a function that takes a pointer to an int as a parameter and sets the value of that int to "42".
- The function should be prototyped as follows:

void ft_ultimate_ft(int *******nbr);

Chapter V

Exercise 02: ft_swap

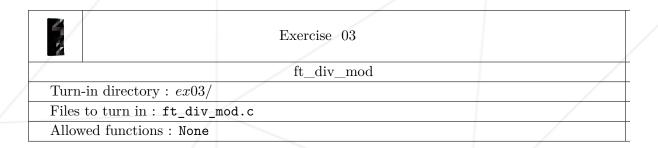
	Exercise 02		
/	ft_swap		
Turn-in directory : $ex02/$			
Files to turn in : ft_swap.c			
Allowed functions : None			

- Create a function that swaps the values of two integers using their addresses as parameters.
- \bullet The function should be prototyped as follows:

void ft_swap(int *a, int *b);

Chapter VI

Exercise 03: ft_div_mod



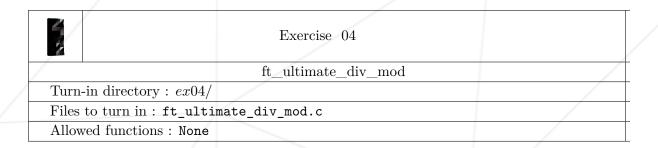
 \bullet Create a function $\mathbf{ft} _\mathbf{div} _\mathbf{mod}$ with the following prototype:

void ft_div_mod(int a, int b, int *div, int *mod);

• This function divides 'a' by 'b' and stores the result in the integer pointed to by 'div'. It also stores the remainder of the division of 'a' by 'b' in the integer pointed to by 'mod'.

Chapter VII

Exercise 04: ft_ultimate_div_mod



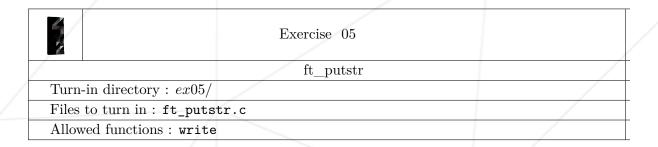
• Create a function **ft_ultimate_div_mod** with the following prototype:

void ft_ultimate_div_mod(int *a, int *b);

• This function divides the value pointed to by 'a' by the value pointed to by 'b'. The result of the division is stored in the integer pointed to by 'a', while the remainder is stored in the integer pointed to by 'b'.

Chapter VIII

Exercise 05: ft_putstr

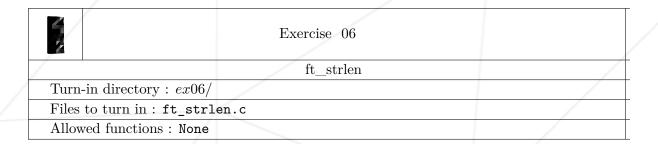


- Create a function that displays a string of characters on the standard output.
- The function should be prototyped as follows:

void ft_putstr(char *str);

Chapter IX

Exercise 06 : ft_strlen

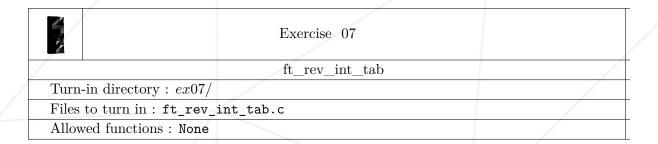


- Create a function that counts and returns the number of characters in a string.
- The function should be prototyped as follows:

int ft_strlen(char *str);

Chapter X

Exercise 07: ft_rev_int_tab

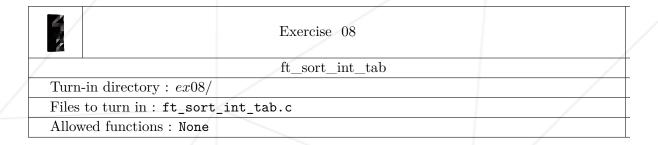


- Create a function that reverses a given array of integers (the first element becomes the last, and so on).
- The function takes two arguments: a pointer to an int and the number of elements in the array.
- The function should be prototyped as follows:

void ft_rev_int_tab(int *tab, int size);

Chapter XI

Exercise 08: ft_sort_int_tab



- Create a function that sorts an array of integers in ascending order.
- The function takes two arguments: a pointer to an int and the number of elements in the array.
- The function should be prototyped as follows:

void ft_sort_int_tab(int *tab, int size);

Chapter XII

Submission and peer-evaluation

Submit your assignment in your Git repository as usual. Only the work inside your repository will be evaluated during the defense. Make 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.