

C Piscine C 01

Summary: This document is the subject for the module C 01 of the C Piscine @ 42.

Version: 5.4

Contents

1	THSU decions	4
II	Foreword	4
III	Exercise 00 : ft_ft	6
IV	Exercise 01 : ft_ultimate_ft	7
V	Exercise 02 : ft_swap	8
VI	Exercise 03 : ft_div_mod	9
VII	Exercise 04 : ft_ultimate_div_mod	10
VIII	Exercise 05 : ft_putstr	11
IX	Exercise 06 : ft_strlen	12
\mathbf{X}	Exercise 07 : ft_rev_int_tab	13
XI	Exercise 08 : ft_sort_int_tab	14
XII	Submission and peer-evaluation	15

Chapter I

Instructions

- Only this page will serve as reference: do not trust rumors.
- Watch out! This document could potentially change up before submission.
- Make sure you have the appropriate permissions on your files and directories.
- You have to follow the submission procedures for all your exercises.
- 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 norminette to check if your files respect the norm. TL;DR: it would be idiotic to submit a piece of work that doesn't pass norminette'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.
- 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 cc.
- If your program doesn't compile, you'll get 0.
- You <u>cannot</u> leave <u>any</u> 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, or the slack Piscine.
- 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!!!



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 exercise allows you to reach this threshold, and if you want to complete more exercises.

Chapter III

Exercise 00: ft_ft

	Exercise 00	
	${ m ft_ft}$	
Turn-in directory : $ex00$	/	
Files to turn in : ft_ft.	С	
Allowed functions: None		

- Create a function that takes a pointer to int as a parameter, and sets the value "42" to that int.
- Here's how it should be prototyped :

Chapter IV

Exercise 01: ft_ultimate_ft

Exercise	01
ft_ultin	mate_ft
Turn-in directory : ex01/	
Files to turn in : ft_ultimate_ft.c	
Allowed functions : None	

- Create a function that takes a pointer to int as a parameter and sets the value "42" to that int.
- Here's how it should be prototyped:

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

Chapter V

Exercise 02: ft_swap

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

- Create a function that swaps the value of two integers whose addresses are entered as parameters.
- Here's how it should be prototyped :

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

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

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

Int c;

c = * 9;

* 4 = * b

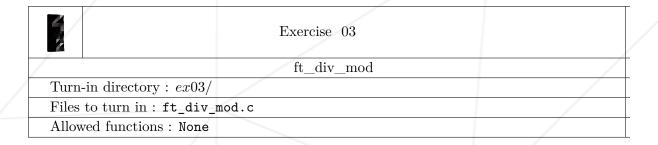
* b = C;

Int m(IN (VOID)

4
```

Chapter VI

Exercise 03: ft_div_mod



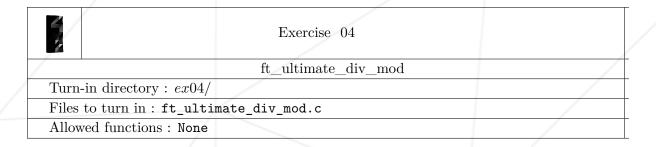
• Create a function ft_div_mod prototyped like this :

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

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

Chapter VII

Exercise 04: ft_ultimate_div_mod



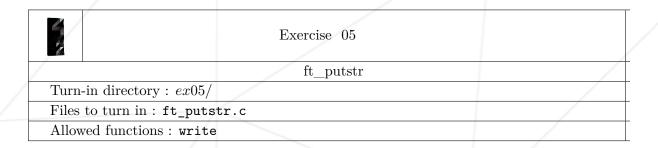
• Create a function ft_ultimate_div_mod with the following prototype :

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

• This function divides parameters a by b. The result of this division is stored in the int pointed by a. The remainder of the division is stored in the int pointed by b.

Chapter VIII

Exercise 05: ft_putstr



- Create a function that displays a string of characters on the standard output.
- Here's how it should be prototyped :

void ft_putstr(char *str);

Chapter IX

Exercise 06: ft_strlen

	Exercise 06	
	ft_strlen	
Turn-in directory : $ex06/$		
Files to turn in : ft_strl	en.c	
Allowed functions: None		

- Create a function that counts and returns the number of characters in a string.
- Here's how it should be prototyped :

Int ft_stilen(char *str);

Int ft_stilen(char *str);

Int stilen(char *str);

Int stilen(char *str);

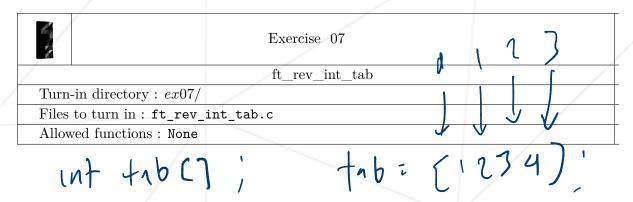
Int stilen(char *str);

Int ft_stilen(char *str);

Int

Chapter X

Exercise 07: ft_rev_int_tab



- Create a function which reverses a given array of integer (first goes last, etc).
- The arguments are a pointer to int and the number of ints in the array.
- Here's how it should be prototyped:

ft_rev_int_tab(int *tab, int size);

0 4 8 12 91 91 102

you reased about address

Chapter XI

Exercise 08: ft_sort_int_tab

	Exercise 08	
	$ft_sort_int_tab$	/
Turn-in directory : $ex08/$		
Files to turn in : ft_sort_int_	_tab.c	
Allowed functions : None		

- Create a function which sorts an array of integers by ascending order.
- The arguments are a pointer to int and the number of ints in the array.
- Here's how it should be prototyped :

Turn in your assignment in your Git repository as usual. Only the work inside your repository will be evaluated during the defense. Don't hesitate 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.