

C Piscine C 09

Summary: This document is the subject for the module C 09 of the C Piscine @ 42.

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Chapter I

Instructions

- Only this page will serve as reference: do not trust rumors.
- Watch out! This document could potentially change 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 chea G i4s2ti1o7(elraded)-326(wi326(as)-327(on)-326(y)27feto)-326(folltia

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- 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!!!



Norminette must be launched with the $\mbox{-}R$ CheckForbiddenSourceHeader flag. Moulinette will use it too.

Chapter II

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...

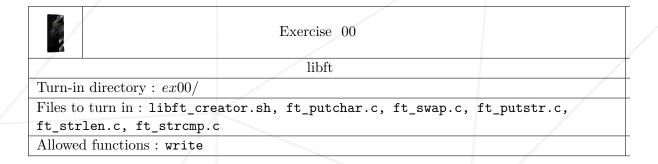
Walter Sobchak: [shouting] You think I'm fucking around here? Mark it zero!

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

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

Chapter III

Exercise 00: libft



- Create your ft library. It'll be called libft.a.
- A shell script called <code>libft_creator</code>. sh will compile source files appropriately and will create your library.
- ullet This library should contain <u>all</u> of the following functions :

```
void ft_putchar(char c);
void ft_swap(int *a, int *b);
void ft_putstr(char *str);
int ft_strlen(char *str);
int ft_strcmp(char *s1, char *s2);
```

• We'll launch the following command-line :

sh libft_creator.sh

Chapter IV

Exercise 01: Makefile

	Exercise 01	
/	Makefile	
Turn-in directory : $ex01/$		
Files to turn in : Makefile		
Allowed functions : None		

- Create the Makefile that'll compile a library libft.a.
- Your makefile should print all the command it's running.
- Your makefile should not run any unnecessary command.
- The Makefile will get its source files from the "srcs" directory.
- Those files will be: ft_putchar.c, ft_swap.c, ft_putstr.c, ft_strlen.c, ft_strcmp.c
- The Makefile will get its header files from the "includes" directory.
- Those files will be: ft.h
- It should compile the .c files with gcc and with -Wall -Wextra -Werror flags in that order.
- The lib should be at the root of the exercise.
- .o files should be near their .c file.
- The Makefile should also implement the following rules: clean, fclean, re, all and of course libft.a.
- Running just make should be equal to make all
- The rule all should be equal to make libft.a.
- The rule Clean should remove all the temporary generated files.

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- The rule fclean should be like a make clean plus all the binary made with make all.
- The rule re should be like a make fclean followed by make all.
- Your makefile should not compile any file for nothing.
- We'll only fetch your Makefile and test it with our files.



Watch out for wildcards!

Chapter V

Exercise 02: ft_split

	Exercise 02			
/	ft_split			
Turn-in directory : $ex02/$				
Files to turn in: ft_split.c				
Allowed functions: malloc				

- Create a function that slits a string of character depending on another string of characters.
- You'll have to use each character from the string charset as a separator.
- The function returns an array where each box contains the address of a string wrapped between two separators. The last element of that array should equal to 0 to indicate the end of the array.
- There cannot be any empty strings in your array. Draw your conclusions accordingly.
- The string given as argument won't be modifiable.
- Here's how it should be prototyped:

char **ft_split(char *str, char *charset);