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C Piscine

Day 02

- Moulinette compiles with these flags: -Wall -Wextra -Werror, and uses gcc.
- 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.
- 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!!!



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

Chapter II

Foreword

Cod liver oil is a nutritional supplement derived from liver of cod fish (Gadidae).

As with most fish oils, it has high levels of the omega-3 fatty acids, eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA). Cod liver oil also contains vitamin A and vitamin D.

It has historically been taken because of its vitamin $\mbox{\bf A}$ and vitamin $\mbox{\bf D}$ content.

It was once commonly given to children, because vitamin D has been shown to prevent rickets and other symptoms of vitamin D deficiency.

Contrary to Cod liver oil, C is good, eat some!

Chapter III

Exercise 00: ft_print_alphabet

Exercice: 00	
ft_print_alphabet	/
Turn-in directory : $ex00/$	
Files to turn in : ft_print_alphabet.c	
Allowed functions: ft_putchar	
Remarks: n/a	

- Create a function that displays the alphabet in lowercase, on a single line, by ascending order, starting from the letter 'a'.
- Here's how it should be prototyped :

void ft_print_alphabet(void);

Chapter IV

Exercise 01:

 $ft_print_reverse_alphabet$



Exercice: 01

 $ft_print_reverse_alphabet$

Turn-in directory : ex01/

Files to turn in : ft_print_reverse_alphabet.c

Allowed functions: ft_putchar

Remarks: n/a

- Create a function that displays the alphabet in lowercase, on a single line, by descending order, starting from the letter 'z'.
- Here's how it should be prototyped :

void ft_print_reverse_alphabet(void);

Chapter V

Exercise 02: ft_print_numbers

Exercice: 02	
ft_print_numbers	
Turn-in directory : $ex02/$	
Files to turn in: ft_print_numbers.c	
Allowed functions: ft_putchar	
Remarks: n/a	

- Create a function that displays all digits, on a single line, by ascending order.
- Here's how it should be prototyped :

void ft_print_numbers(void);

Chapter VI

Exercise 03: ft_is_negative

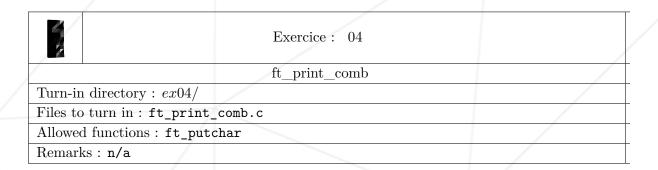
	Exercice: 03	
	ft_is_negative	
Turn-in directory : $ex03/$		
Files to turn in : ft_is_ne		
Allowed functions: ft_put		
Remarks : n/a		

- Create a function that displays 'N' or 'P' depending on the integer's sign entered as a parameter. If n is negative, display 'N'. If n is positive or null, display 'P'.
- Here's how it should be prototyped :

void ft_is_negative(int n);

Chapter VII

Exercise 04: ft_print_comb



- Create a function that displays all different combinations of three different digits in ascending order, listed by ascending order yes, repetition is voluntary.
- Here's the intended output :

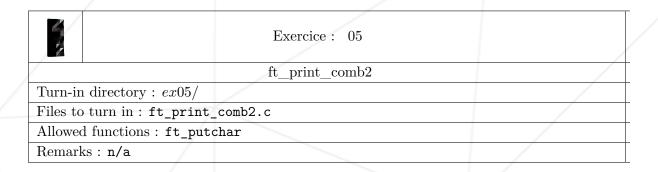
```
$>./a.out | cat -e
012, 013, 014, 015, 016, 017, 018, 019, 023, ..., 789$>
```

- 987 isn't there because 789 already is.
- 999 isn't there because the digit 9 is present more than once.
- Here's how it should be prototyped:

void ft_print_comb(void);

Chapter VIII

Exercise 05: ft_print_comb2



- Create a function that displays all different combination of two digits between 00 and 99, listed by ascending order.
- Here's the expected output :

```
$>./a.out | cat -e
00 01, 00 02, 00 03, 00 04, 00 05, ..., 00 99, 01 02, ..., 97 99, 98 99$>
```

• Here's how it should be prototyped:

void ft_print_comb2(void);

Chapter X

Exercise 07: ft_print_combn

Exercice: 07

ft_print_combn

Turn-in directory: ex07/

Files to turn in: ft_print_combn.c

Allowed functions: ft_putchar

Remarks: n/a

- Create a function that displays all different combinations of n numbers by ascending order.
- n will be so that : 0 < n < 10.
- If n = 2, here's the expected output:

```
$>./a.out | cat -e
01, 02, 03, ..., 09, 12, ..., 79, 89$>
```

• Here's how it should be prototyped:

void ft_print_combn(int n);