C Bootcamp

Mini-project 00 : Sastantua

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Summary: First mini-project of the C Bootcamp @ WeThinkCode_.

Contents

Chapter I

Foreword

The Top 10 most expensive cars in the world

```
1. Maybach Exelero ($8 million)
2. Lamborghini Veneno ($4.5 million)
3. Lykan Hypersport ($3.4 million)
4. Bugatti Veyron Super Sports ($2.4 million)
5. Lamborghini Reventon ($2 million)
6. Pagani Zonda Cinque Roadster ($1.85 million)
7. Aston Martin One-77 ($1.85 million)
8. Zenvo ST1 ($1.8 million)
9. Koenigsegg Agera R ($1.6 million)
10. Pagani Huayra( $1.6 million)
```

As usual it's totally not related to the subject of today.
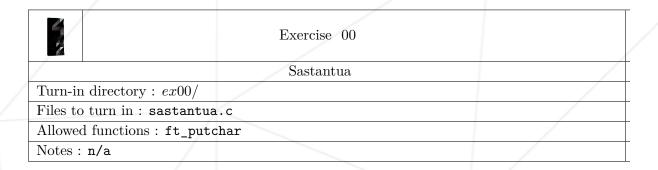
Chapter II

Instructions

- Only this page will serve as reference: do not trust rumors.

- Watch out! This document could potentially change up to an hour 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 you can be.

- 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 `Norminator` to check if your files respect the norm. TL;DR: it would be idiotic to submit a piece of work that doesn't pass `Norminator`'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.

- If ft_putchar() is an authorized function, we will compile your code with our `ft_putchar.c`.

- 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 `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 the neighbor on your right. Otherwise, try the neighbor on your left.

- Your reference guide is called `Google / man / the Internet / ....`

- Try checking out the "C Bootcamp" 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 III

Subjet

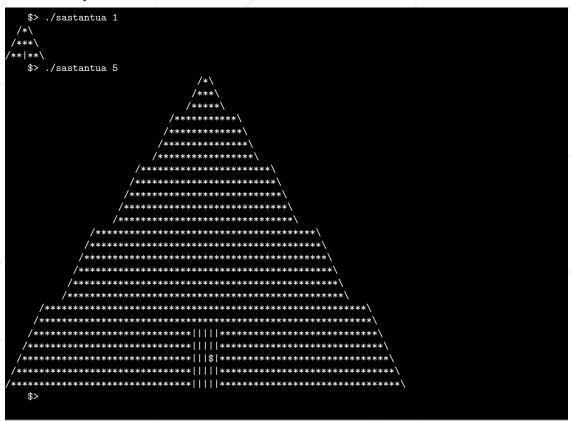|	Exercise 00
	Sastantua
Turn-in directory : *ex*00/	
Files to turn in : `sastantua.c`	
Allowed functions : `ft_putchar`	
Notes : `n/a`	

- Create a function that displays Sastantua's pyramid onscreen. Its size will be passed as argument. A pyramid of size `0` displays nothing.

- Here's how it should be prototyped :

```
void        sastantua(int size);
```

- Some examples :

```
    $> ./sastantua 1
  /*\
 /***\
/**|**\
    $> ./sastantua 5
                                /*\
                               /***\
                              /*****\
                           /***********\
                          /*************\
                         /***************\
                        /*****************\
                     /***********************\
                    /*************************\
                   /***************************\
                  /*****************************\
                 /*******************************\
              /*************************************\
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   /***************************|||$|***************************\
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 /***************************|||||***************************\
    $>
```

You'll find a sastantua binary in this directory :
/nfs/ring_nfs/others/resources/piscine/sastantua