

ft_printf

Because ft_putnbr() and ft_putstr() aren't enough

Summary: The goal of this project is quite straightforward: you will reimplement printf(). This will primarily teach you how to handle a variable number of arguments.

How cool is that? Actually, it's pretty cool! :)

Version: 10.2

Contents

Ι	Introduction	2
II	Common Instructions	3
III	Mandatory part	5
IV	Bonus part	7
\mathbf{V}	Submission and peer-evaluation	8

Chapter I

Introduction

You will explore one of the most popular and versatile functions in C: printf(). This exercise provides an excellent opportunity to improve your programming skills. It is considered moderately difficult.

You will discover variadic functions in C.

The key to a successful ft_printf is well-structured and extensible code.



Once you have successfully completed this assignment, you will be allowed to add your ft_printf() to your libft, making it available for use in your school C projects.

Chapter II

Common Instructions

- Your project must be written in C.
- Your project must be written in accordance with the Norm. If you have bonus files/functions, they are included in the norm check, and you will receive a 0 if there is a norm error.
- Your functions should not quit unexpectedly (segmentation fault, bus error, double free, etc.) except for undefined behavior. If this occurs, your project will be considered non-functional and will receive a 0 during the evaluation.
- All heap-allocated memory must be properly freed when necessary. Memory leaks will not be tolerated.
- If the subject requires it, you must submit a Makefile that compiles your source files to the required output with the flags -Wall, -Wextra, and -Werror, using cc. Additionally, your Makefile must not perform unnecessary relinking.
- Your Makefile must at contain at least the rules \$(NAME), all, clean, fclean and re.
- To submit bonuses for your project, you must include a bonus rule in your Makefile, which will add all the various headers, libraries, or functions that are not allowed in the main part of the project. Bonuses must be placed in _bonus. {c/h} files, unless the subject specifies otherwise. The evaluation of mandatory and bonus parts is conducted separately.
- If your project allows you to use your libft, you must copy its sources and its associated Makefile into a libft folder. Your project's Makefile must compile the library by using its Makefile, then compile the project.
- We encourage you to create test programs for your project, even though this work does not need to be submitted and will not be graded. It will give you an opportunity to easily test your work and your peers' work. You will find these tests especially useful during your defence. Indeed, during defence, you are free to use your tests and/or the tests of the peer you are evaluating.
- Submit your work to the assigned Git repository. Only the work in the Git repository will be graded. If Deepthought is assigned to grade your work, it will occur