

B1 - Unix & C Lab Seminar

B-CPE-101

Bistro-matic

Kind of Basic Calculator





Bistro-matic

binary name: calc

repository name: CPool_bistro-matic_\$ACADEMICYEAR

repository rights: ramassage-tek

language: C

compilation: via Makefile, including re, clean and fclean rules



• Your repository must contain the totality of your source files, but no useless files (binary, temp files, obj files,...).

- All the bonus files (including a potential specific Makefile) should be in a directory named bonus.
- Error messages have to be written on the error output, and the program should then exit with the 84 error code (O if there is no error).



Only the project submitted by your project leader will be checked-out.

The goal of this project is to write a program that will display the result of an evaluated mathematical expression. The expression will be composed of infinite integers that can be expressed in any base. The program must handle the following operators: +-*/%, parentheses, operation priorities and syntax errors, but not float numbers.

Terminal



man bc

\sim /B-CPE-101> ./calc -h USAGE

./calc base operators size_read

DESCRIPTION

- base: all the symbols of the base
- operators: the symbols for the parentheses and the 5 operators
- size_read: number of characters to be read



If a syntax error occurs, the program must display the string defined by the SYNTAX ERROR_MSG macro.

For any other error, the program must display the string defined by the ERROR_MSG macro.







The libC is forbidden, except the following functions: read, write, malloc, free, exit.



The given main.c and bistromatic.h files are given as-is, feel free to use them (or not). They are not guaranteed to be fully compliant with the coding style.