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LEARN DIFFERENT*

42SH

YOU KNOW THE ANSWER

42SH

Preliminaries

binary name: 42sh
language: C
groupe size: 4 - 5
compilation: via Makefile, including re, clean and fclean rules
authorized functions: all functions included in the libC or the ncurses library

- ✓ The totality of your source files, except all useless files (binary, temp files, objfiles,…), must be included in your delivery.
- ✓ 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 same error code as the TCSH should be.

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Project

With the two first projects, your team must now write a whole Unix SHELL based on TCSH.

Once more, **stability** will be much more important that quantity. Don't include an option that will cause a problem for the rest of the program (especially for the mandatory section!).

> For the different commands and compatibility (syntax), the reference shell used will be tcsh.

Here is a list of main features that should be added on top of the minishell :

feature	command
inhibitors	' '
globbings	*, ?, [,]
job control	&, fg, bg
backticks	'
parentheses	(and)
variables	local and env
special variables	term, precmd, cwdcmd, cwd, ignoreof for instance
history	!
aliases	example: alias ls "ls –color"
line edition	multiline, dynamic rebinding, auto-completion dynamic
scripting	a bit harsh though

> **Form a solid group:** make sure that you can really work together, really work together as a group (together and through discussion)
> **Split the work-load intelligently:** what if a member of your team get sick? Can you finish his part of the job, or is it a "black box" for you?
> **Write unit tests:** if you write them as you add features, you will be more confident about the stability of your project as the code base grows.
> **Git is your friend:** commit often! Do you know how to navigate in previous revisions? Do you know how to use branches?

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Bonuses

ℹ️ You have free-rein and can do what you want. However, the entire project's coherence will be taken into consideration.

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