**42** Evals

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Introduction
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Please follow the rules below:

Back to all evaluation sheets

 Remain polite, courteous, respectful, and constructive throughout the evaluation process. The well-being of the community depends on it. - Identify with the student or group whose work is being evaluated the possible dysfunctions in their project. Take the time to discuss and debate the

problems that may have been identified.

- You must consider that there might be some differences in how your peers might have understood the project's instructions and the scope of its functionalities. Always keep an open mind and grade them as honestly as possible. The pedagogy is useful only if the peer-evaluation is done seriously.

Minishell

You should evaluate 2 student in this team

**Guidelines** Please follow the guidelines below:

Only grade the work that was turned in to the Git repository of the evaluated student or group.

- Double-check that the Git repository belongs to the student(s). Ensure that the project is the one expected. Also, check that 'git clone' is used in an empty folder.

 Check carefully that no malicious aliases were used to fool you into evaluating something that is not the content of the official repository. To avoid any surprises and if applicable, review together any scripts used to facilitate the grading (scripts for testing or automation).

If you have not completed the assignment you are going to evaluate, you must read the entire subject prior to starting the evaluation process.

- Use the available flags to report an empty repository, a non-functioning program, a Norm error, cheating, and so forth. In these cases, the evaluation oprocess ends and the final grade is 0, or -42 in the case of cheating. However, except for cheating, students are strongly encouraged to review together the work that was turned in, in order to identify any mistakes that shouldn't be repeated in the future.

- Remember that for the duration of the defense, no segfaults or other unexpected, premature, or uncontrolled terminations of the program will be tolerated, else the final grade is 0. Use the appropriate flag. - You should never have to edit any file except the configuration file if it exists. If you want to edit a file, take the time to explain the reasons with the

evaluated student and make sure both of you are okay with this. ✓ - You must also verify the absence of memory leaks. Any memory allocated on the heap must be properly freed before the end of execution. - You are allowed to use any of the different tools available on the computer, such as leaks, valgrind, or e\_fence. In case of memory leaks, tick the

**Attachments** Please download the attachments below:

**Mandatory Part** 

subject.pdf

appropriate flag.

**Simple Command & global variables** 

Simple Command & global variables

## Whow many global variables are used? Why? Ask the evaluated student to give you a concrete example of why it feels mandatory or logical. Oheck the global variable. This global variable cannot provide any other information or data access than the number of a received signal.

Test an empty command. Test only spaces or tabs. ✓ If something crashes, select the "crash" flag.

✓ If something doesn't work, select the "incomplete work" flag. Yes

Repeat multiple times with different commands and arguments and sometimes change > with >>

Oheck if multiple tries of the same redirections fail. ✓ Test << redirection (it doesn't have to update the history).
</p> Yes

Execute commands with redirections < and/or >

env

Yes

Oheck if env shows you the current environment variables.

export export

Export environment variables, create new ones and replace old ones.

echo echo

Execute the echo command with or without arguments, or the -n option. Repeat multiple times with different arguments.

✓ If something crashes, select the "crash" flag.

✓ If something doesn't work, select the "incomplete work" flag.

Compile Compile

✓ Use "make -n" to see if compilation use "-Wall -Wextra -Werror". If not, select the "invalid compilation" flag.

Execute a simple command with an absolute path like /bin/ls, or any other command with arguments but without any quotes or double quotes. Repeat multiple times with different commands and arguments. ✓ If something crashes, select the "crash" flag. ✓ If something doesn't work, select the "incomplete work" flag.

## Unset the \$PATH and ensure commands are not working anymore. Set the \$PATH to a multiple directory value (directory1:directory2) and ensure that directories are checked in order from left to right.

Yes

Go Crazy and history ✓ Type a command line, then use ctrl-C and press "Enter". The buffer should be clean and there should be nothing left to execute.

**Go Crazy and history** 

On we navigate through history using Up and Down? Can we retry some command? Execute commands that should not work like 'dsbksdgbksdghsd'. Ensure minishell doesn't crash and prints an error. ✓ 'cat | cat | Is' should behave in a "normal way".

Yes

Repeat multiple times with different arguments. On't forget to relaunch the minishell ✓ If something crashes, select the "crash" flag. ✓ If something doesn't work, select the "incomplete work" flag.

Pipes Execute commands with pipes like 'cat file | grep bla | more' Repeat multiple times with different commands and arguments. ✓ Try some wrong commands like 'ls filethatdoesntexist | grep bla | more'

Try to mix pipes and redirections.

 $\bigcirc$  ctrl-D in an empty prompt should quit minishell  $\rightarrow$  RELAUNCH! ctrl-C in a prompt after you wrote some stuff should display a new line with a new prompt. ✓ The buffer should be clean too. Press "Enter" to make sure nothing from the previous line is executed. ctrl-D in a prompt after you wrote some stuff should not do anything. ctrl-\ in a prompt after you wrote some stuff should not do anything.

Signals

Signals

**Single Quotes** Single Quotes Execute commands with single quotes as arguments.

✓ If something doesn't work, select the "incomplete work" flag.

pwd

Use the command pwd.

Yes

Yes

Return value of a process

✓ Try anything like expr \$? + \$?

✓ If something crashes, select the "crash" flag.

✓ If something doesn't work, select the "incomplete work" flag.

Return value of a process

execute echo \$?

pwd

Yes

✓ Try a command like : echo "cat lol.c | cat > lol.c" Try anything except \$. ✓ If something crashes, select the "crash" flag. ✓ If something doesn't work, select the "incomplete work" flag.

**Relative Path** Relative Path Execute commands but this time use a relative path.

Yes

unset

unset

Yes

**Environment variables** 

**Environment variables** 

Yes

Repeat multiple times with working and not working cd Also, try '.' and '..' as arguments.

Yes

Wildcard

Wildcard

And, Or

OK

(i) Norme

Forbidden Functions

**Bonus Part** 

Surprise! (or not...)

Set the USER environment variable.

echo '"\$USER"' should print "\$USER".

echo "'\$USER'" should print the value of the USER variable.

Surprise! (or not...)

☆ Outstanding

Cheat

Use wildcards in arguments in the current working directory. Yes

Use &&, || and parenthesis with commands and ensure minishell behaves the same way bash does. Yes

usage. In case all the mandatory points were not passed during the defense, bonus points must be totally ignored.

Evaluate the bonus part if, and only if, the mandatory part has been entirely and perfectly done, and the error management handles unexpected or bad

Incomplete Work

⚠ Concerning Situations

Nalid Compilation

Leaks

Execute a simple command with an absolute path like /bin/ls, or any other command without any options.

Redirection Redirection

env

Oheck the result with env. Yes

Yes

inishell compiles without any errors. If not, select the flag. The Makefile must not re-link. If not, select the flag.

Yes

**Arguments** 

Arguments

**Environment path** 

**Environment path** 

Yes

exit

**Pipes** 

exit

Try to execute a long command with a ton of arguments.

Execute exit command with or without arguments.

Execute commands but this time without any path (Is, wc, awk and so forth).

Yes

Yes

ctrl-C in an empty prompt should display a new line with a new prompt.

✓ Try ctrl-C after running a blocking command like cat without arguments or grep "something". ✓ Try ctrl-\ after running a blocking command like cat without arguments or grep "something". ✓ Try ctrl-D after running a blocking command like cat without arguments or grep "something". Repeat multiple times using different commands.

✓ If something crashes, select the "crash" flag.

ctrl-\ in an empty prompt should not do anything.

Yes

Try empty arguments. Try environment variables, whitespaces, pipes, redirection in the single quotes. echo '\$USER' must print "\$USER". Nothing should be interpreted.

**Double Quotes Double Quotes** 

Execute a simple command with arguments and, this time, use also double quotes (you should try to include whitespaces too).

Repeat multiple times with different commands and arguments. Try some wrong commands like '/bin/ls filethatdoesntexist'

Oheck the printed value. You can do the same in bash in order to compare the results.

Repeat multiple times in different directories with a complex relative path (lots of ..).

Execute echo with some environment variables (\$variable) as arguments.

Oheck that \$ is interpreted as an environment variable.

echo "\$USER" should print the value of the USER variable.

Oheck that double quotes interpolate \$.

Check that USER exists. Otherwise, set it.

Execute a simple command with an absolute path like /bin/ls, or any other command with arguments but without any quotes and double quotes. Then

Repeat multiple times in different directories.

Yes

Export environment variables, create new ones and replace old ones. Use unset to remove some of them. Oheck the result with env.

cd cd Use the command cd to move the working directory and check if you are in the right directory with /bin/ls

Ratings

Empty Work

Cannot Support/Explain code

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