

=

rrouille

SCALE FOR PROJECT MINISHELL (HTTPS://PROJECTS.INTRA.42.FR/PROJECTS/42CURSUS MINISHELL)

You should evaluate 2 students in this team

Introduction

Please comply with the following rules:

- 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 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 and only if the peer-evaluation is done seriously.

Guidelines

- Only grade the work that was turned in 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 was used to fool you and make you evaluate 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 have to 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 process ends and the final grade is 0, or -42 in case of cheating. However, except for cheating, student 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 segfault, no other unexpected, premature, uncontrolled or unexpected termination of the program, 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 explicit 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 appropriate flag.

Attachments

subject.pdf (https://github.com/rphlr/42-Subjects/)

Mandatory Part

Compile

- Use "make -n" to see if compilation use "-Wall -Wextra -Werror". If not, select the "invalid compilation" flag.
- · minishell compiles without any errors. If not, select the flag.
- The Makefile must not re-link. If not, select the flag.

Yes		No

Simple Command & global variables

- Execute a simple command with an absolute path like /bin/ls, or any other command without any options.
- How many global variables are used? Why? Ask the evaluated student to give you a concrete example of
 why it feels mandatory or logical.
- Check 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 No

Arguments

- 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.

	Yes	No
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.

Yes No

exit

- Execute exit command with or without arguments.
- Repeat multiple times with different arguments.
- Don't forget to relaunch the minishell
- If something crashes, select the "crash" flag.
- If something doesn't work, select the "incomplete work" flag.

Yes No

Return value of a process

- 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 execute echo \$?
- Check the printed value. You can do the same in bash in order to compare the results.
- Repeat multiple times with different commands and arguments. Try some wrong commands like '/bin/ls filethatdoesntexist'
- Try anything like expr \$? + \$?
- · If something crashes, select the "crash" flag.
- If something doesn't work, select the "incomplete work" flag.

Yes No

Signals

- ctrl-C in an empty prompt should display a new line with a new prompt.
- ctrl-\ in an empty prompt should not do anything.
- ctrl-D in an empty prompt should quit minishell --> 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.
- · 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.
- If something doesn't work, select the "incomplete work" flag.

Yes	No
Double Quotes	
 Execute a simple command with arguments and, this time, u whitespaces too). 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. 	
Yes	No
Single Quotes	
 Execute commands with single quotes as arguments. Try empty arguments. Try environment variables, whitespaces, pipes, redirection in echo '\$USER' must print "\$USER". Nothing should be interpreted. 	n the single quotes.
Yes	No
Check if env shows you the current environment variables.	No
Yes	No
exportExport environment variables, create new ones and replace	old ones.
Check the result with env.	
Yes	No
unset	
 Export environment variables, create new ones and replace Use unset to remove some of them. Check the result with env. 	old ones.
Yes	No
cd	

- Use the command cd to move the working directory and check if you are in the right directory with /bin/ls
- Repeat multiple times with working and not working cd
- Also, try '.' and '..' as arguments.

	Yes	No
 Use the command pw Repeat multiple times	vd. s in different directories.	
	Yes	No
Relative Path		
	out this time use a relative path. s in different directories with a com	plex relative path (lots of).
	Yes	No
Environment path		
 Unset the \$PATH and 	out this time without any path (ls, w l ensure commands are not workin nultiple directory value (directory1:	
order from left to right	t.	
order from left to right	t. Yes	No
order from left to right		No
Redirection • Execute commands v • Repeat multiple times • Check if multiple tries	Yes vith redirections < and/or >	uments and sometimes change > with >>
Redirection • Execute commands v • Repeat multiple times • Check if multiple tries	Yes with redirections < and/or > s with different commands and arg of the same redirections fail.	uments and sometimes change > with >>
Redirection • Execute commands v • Repeat multiple times • Check if multiple tries	Yes with redirections < and/or > s with different commands and arg of the same redirections fail. doesn't have to update the history	uments and sometimes change > with >> /).
Redirection • Execute commands v • Repeat multiple times • Check if multiple tries • Test << redirection (it	vith redirections < and/or > s with different commands and arg of the same redirections fail. doesn't have to update the history Yes vith pipes like 'cat file grep bla n s with different commands and arg mands like 'ls filethatdoesntexist	uments and sometimes change > with >> /). No nore' uments.

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.
- Can 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 | ls' should behave in a "normal way".
- Try to execute a long command with a ton of arguments.
- · Have fun with that beautiful minishell and enjoy it!

Yes No

Environment variables

- Execute echo with some environment variables (\$variable) as arguments.
- Check that \$ is interpreted as an environment variable.
- · Check that double quotes interpolate \$.
- Check that USER exists. Otherwise, set it.
- echo "\$USER" should print the value of the USER variable.

Yes No

Bonus

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

And, Or

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

Yes No

Wildcard

· Use wildcards in arguments in the current working directory.

Yes No

Surprise! (or not...)

- Set the USER environment variable.
- echo "'\$USER'" should print the value of the USER variable.
- · echo ""\$USER"" should print "\$USER".

Yes No

Ratings

Don't forget to check the flag corresponding to the defense

Ok			Outstanding project			
Empty work	Incomplete work	W Invalid compilation	Norme	Cheat	Crash	
Incomplete group Conce		cerning situation	Leaks	l Forbidden function		
Can't support / explain code						
Give this repository a star. ★ (https://github.com/rphlr/42-Evals)						