marza-ga

(https://profile.intra.42.fr)

SCALE FOR PROJECT MINISHELL (/PROJECTS /42CURSUS-MINISHELL)

You should evaluate 2 students in this team



Git repository

git@vogsphere.42barcelona.com:vogsphere/intra-uuid-045fe8a6-7848-4e4



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 O. 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://cdn.intra.42.fr/pdf/pdf/65120/en.subject.pdf)

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.

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.
- 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.

arnothing Yes imes 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

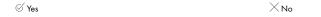
- Execute exit command with or without arguments.
- Repeat multiple times with different arguments.

- · Don't forget to relaunch the minishell
- If something crashes, select the "crash" flag.
- If something doesn't work, select the "incomplete work" flag.



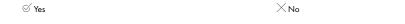
Return value of a process

- 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.



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.



Double Quotes

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



Single Quotes

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

⊗ Yes ×No

env

• Check if env shows you the current environment variables.

	⊗ Yes	×N₀
export		
	nvironment variables, create new ones and repla	ace old ones.
 Check the 	e result with env.	
		×No
unset		
	nvironment variables, create new ones and replo to remove some of them.	ace old ones.
	e result with env.	
	✓ Yes	×No
ad		
e Use the co	ammand ad to make the working directors and	check if you are in the right directory with /bin/ls
	sultiple times with working and not working cd	check if you die in the right directory with / bill/ is
• Also, try '.	'.' and '' as arguments.	
	⊘ Yes	×No
	⊕ les	XING
pwd		
 Use the co 	ommand pwd.	
	ommand pwd. Jultiple times in different directories.	
	ultiple times in different directories.	V.,
		imesNo
• Repeat mi	ultiple times in different directories.	×No
Repeat mu Relative Path	ultiple times in different directories.	×No
Repeat mo Relative Path Execute co	ultiple times in different directories.	
Repeat mo Relative Path Execute co	commands but this time use a relative path.	lex relative path (lots of).
Repeat mo Relative Path Execute co	ultiple times in different directories.	
Repeat mu Relative Path Execute cooking Repeat mu	ultiple times in different directories. Yes commands but this time use a relative path. ultiple times in different directories with a compl	lex relative path (lots of).
Repeat mu Relative Path Execute co Repeat mu Environment pe	ultiple times in different directories. Yes commands but this time use a relative path. ultiple times in different directories with a compl	lex relative path (lots of).
Relative Path Execute co Repeat mo Environment po Execute co Unset the	commands but this time use a relative path. Wes The second of the seco	lex relative path (lots of). × No , awk and so forth). anymore.
Relative Path Execute co Repeat mo	commands but this time use a relative path. Wes The second of the seco	lex relative path (lots of). × No , awk and so forth).
Relative Path Execute co Repeat mo Environment po Execute co Unset the	commands but this time use a relative path. Wes The second of the seco	lex relative path (lots of). × No , awk and so forth). anymore.
Relative Path Execute co Repeat mo	commands but this time use a relative path. Wes The second of the seco	lex relative path (lots of). × No , awk and so forth). anymore.
Relative Path Execute co Repeat mo	commands but this time use a relative path. We yes Commands but this time use a relative path. We yes We yes Commands but this time without any path (Is, wc, \$PATH and ensure commands are not working PATH to a multiple directory value (directory 1:di	lex relative path (lots of). No awk and so forth). anymore. irectory2) and ensure that directories are checked in order from left to
Relative Path Execute of Repeat model Environment path Execute of Unset the Set the \$Pright.	commands but this time use a relative path. Wes Commands but this time use a relative path. Wes Yes Yes PATH and ensure commands are not working PATH to a multiple directory value (directory 1:di	lex relative path (lots of). No awk and so forth). anymore. irectory2) and ensure that directories are checked in order from left to
Relative Path Execute co Repeat mo Environment pa Execute co Unset the Set the \$Pright. Redirection Execute co	commands but this time use a relative path. We yes Commands but this time use a relative path. We yes Wes Commands but this time without any path (Is, wc, PATH and ensure commands are not working PATH to a multiple directory value (directory 1:di Wes Commands with redirections < and/or >	lex relative path (lots of). No No awk and so forth). anymore. irectory2) and ensure that directories are checked in order from left to
Relative Path Execute co Repeat mode Environment path Execute co Unset the Set the \$P right. Redirection Execute co Repeat mode	commands but this time use a relative path. In the commands but this time use a relative path. In the commands but this time without any path (Is, wc, \$PATH and ensure commands are not working PATH to a multiple directory value (directory 1:di	lex relative path (lots of). No No awk and so forth). anymore. irectory2) and ensure that directories are checked in order from left to
Relative Path Execute co Repeat mo Execute co Unset the Set the \$P right. Redirection Execute co Repeat mo Check if m	commands but this time use a relative path. We yes Commands but this time use a relative path. We yes Wes Commands but this time without any path (Is, wc, PATH and ensure commands are not working PATH to a multiple directory value (directory 1:di Wes Commands with redirections < and/or >	lex relative path (lots of). No awk and so forth). anymore. irectory2) and ensure that directories are checked in order from left to No
Relative Path Execute co Repeat mo Execute co Unset the Set the \$P right. Redirection Execute co Repeat mo Check if m	commands but this time use a relative path. Inultiple times in different directories with a complete times in different directories with a complete times in different directories with a complete times with this time without any path (Is, wc, \$PATH and ensure commands are not working PATH to a multiple directory value (directory 1:disparation). Yes	lex relative path (lots of). No awk and so forth). anymore. irectory2) and ensure that directories are checked in order from left to No

- 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.

arnothing Yes imes No

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
- 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!

extstyle ext

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.

 $ext{$ee}$ Yes $ext{$ imes$ 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.

Wildcard

• Use wildcards in arguments in the current working directory.

 $ilde{ ilde{\lor}}$ Yes imes No

Surprise! (or not...)

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

Ratings

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

	✓ Ok		★ Outstan		
■ Emp	■ Empty work ■ Incomplete work		npilation # Norme	■ Cheat 1	Crash
10	• Incomplete group		♦ Leaks	⊘ Forbidden functi	ion
Cone	clusion				
	omment on this evaluation				
		Finish e	valuation		
Rules of procedure	Declaration on the use of cookies	Privacy policy (https://profile.intra.42.fr	General term of use of the site	Terms of use for video surveillance	Legal notices (https://profile.intra.42.fr
/legal/terms/4)	(https://profile.intra.42.fr /legal/terms/2)	/legal/terms/5)	(https://profile.intra.42.fr /legal/terms/6)	(https://profile.intra.42.fr /legal/terms/1)	/legal/terms/3)

(ht