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

You should evaluate 2 students in this team



Git repository

git@vogsphere.42lisboa.com:vogsphere/intra-uuid-5b216ec2-c61c-4ba5-8 🖺

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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
- 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.

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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/65486/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

 \otimes Yes \times 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.
- 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.

 \otimes Yes \times 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.

 $ilde{ ilde{eta}}$ Yes

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.
- $\bullet\,$ If something doesn't work, select the "incomplete work" flag.

igotimes Yes igotimes 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.

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 ✓ Yes ΧNο 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 \times_{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. $\bullet \ \, {\sf ctrl-D} \ \, {\sf in} \ \, {\sf an} \ \, {\sf empty} \ \, {\sf prompt} \ \, {\sf should} \ \, {\sf quit} \ \, {\sf minishell} \ \, {\sf -->} \ \, {\sf RELAUNCH!} \\$ • 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. ullet ctrl-ackslash 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 ΧNο **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. Yes \times No **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. Ves \times No · Check if env shows you the current environment variables. ✓ Yes ΧNο export

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| Check the resu | iment variables, create new ones and | . 10 1000 010 011001 |
|--|---|--|
| G.100K 1110 1000 | ılt with env. | |
| | ⊗ Yes | $	imes_{No}$ |
| unset | | |
| Export environ | ment variables, create new ones and | d replace old ones. |
| Use unset to re | emove some of them. | |
| Check the resu | ılt with env. | |
| | | |
| | ⊘ Yes | ×N₀ |
| cd | | |
| Repeat multiple | and cd to move the working directory e times with working and not working d'' as arguments. | y and check if you are in the right directory with /bin/ls g cd |
| | ⊘ Yes | × _{No} |
| | | |
| pwd | | |
| Use the commo | and pwd. e times in different directories. | |
| Kepear multiple | e times in different directories. | |
| | ⊘ Yes | \times_{No} |
| Relative Path | | |
| Evecute comm. | ands but this time use a relative path | |
| | e times in different directories with a | |
| Kopodi mompio | o miles in american aneciones with a v | complex totalite pain (loss of). |
| | ⊗ Yes | $	imes_{No}$ |
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| Environment path | | |
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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!

 ${\it ext{$ec ext{Yes}}}$

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.



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.



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



Conclusion

Leave a comment on this evaluation

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