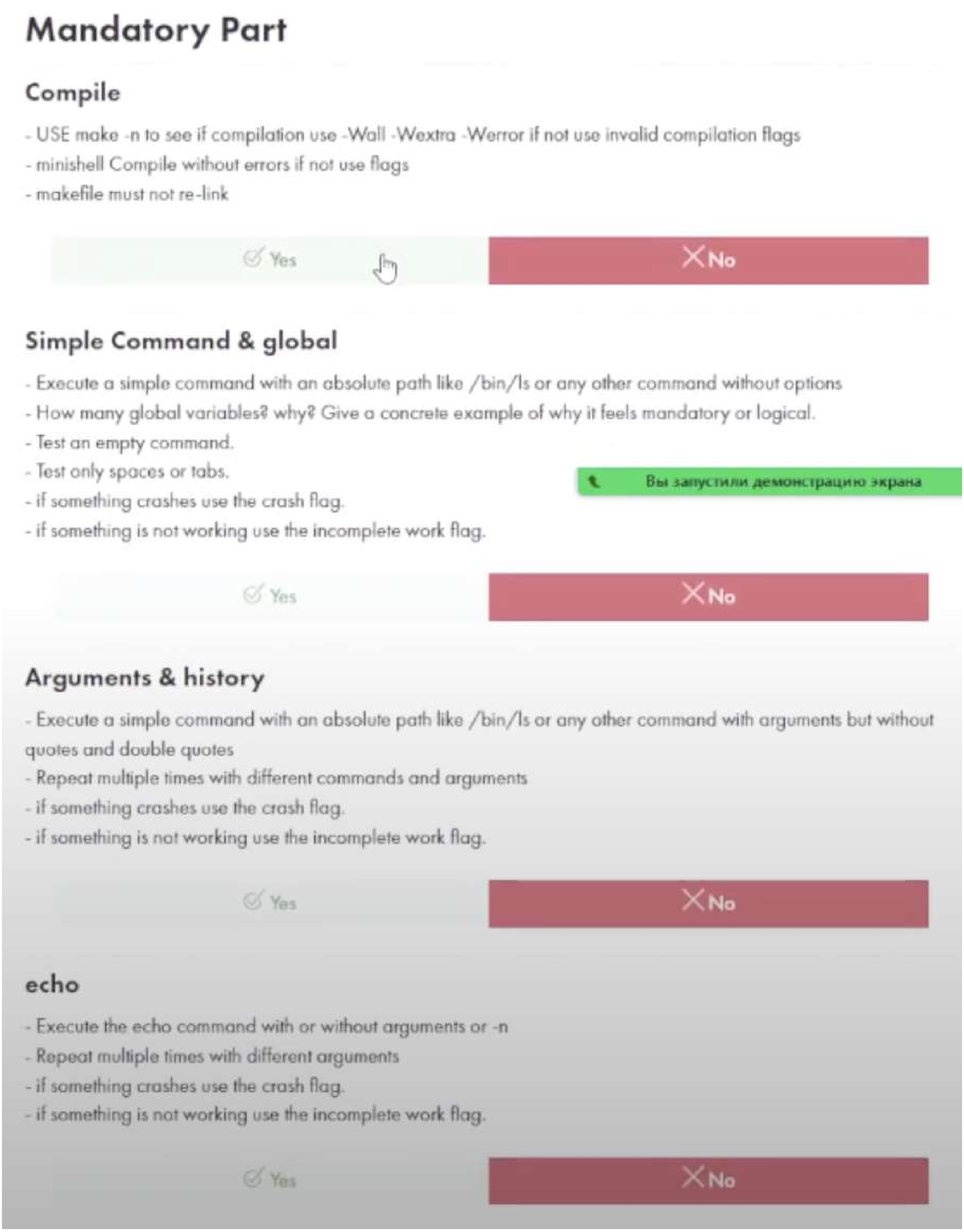


Mandatory Part

Compile

- USE make -n to see if compilation use -Wall -Wextra -Werror if not use invalid compilation flags
- minishell Compile without errors if not use flags
- makefile must not re-link

✓ Yes ✗ No

Simple Command & global

- Execute a simple command with an absolute path like /bin/ls or any other command without options
- How many global variables? why? Give a concrete example of why it feels mandatory or logical.
- Test an empty command.
- Test only spaces or tabs.
- if something crashes use the crash flag.
- if something is not working use the incomplete work flag.

Вы запустили демонстрацию экрана

✓ Yes ✗ No

Arguments & history

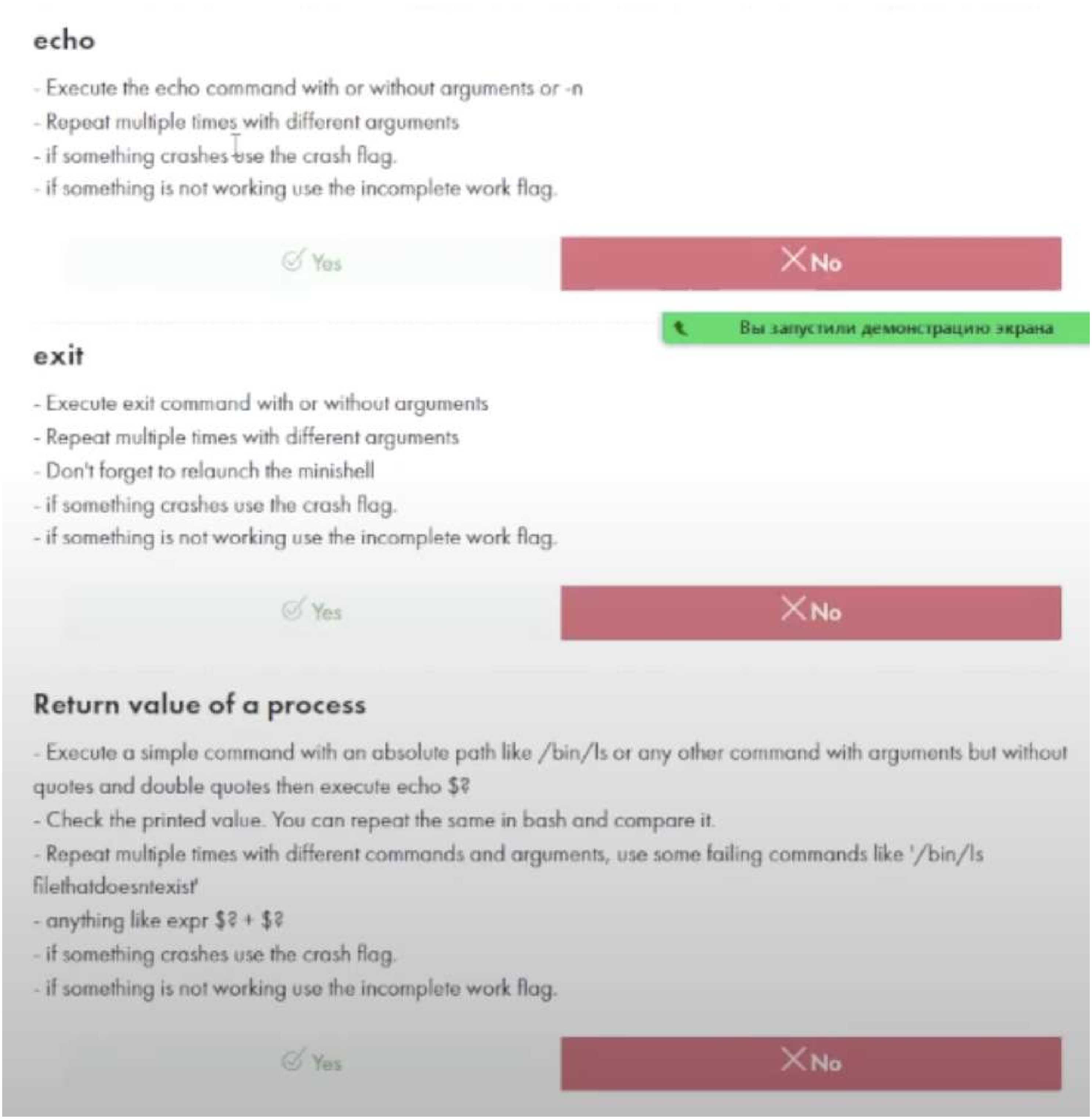
- Execute a simple command with an absolute path like /bin/ls or any other command with arguments but without quotes and double quotes
- Repeat multiple times with different commands and arguments
- if something crashes use the crash flag.
- if something is not working use the incomplete work flag.

✓ Yes ✗ No

echo

- Execute the echo command with or without arguments or -n
- Repeat multiple times with different arguments
- if something crashes use the crash flag.
- if something is not working use the incomplete work flag.

✓ Yes ✗ No



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- Repeat multiple times with different arguments
- if something crashes use the crash flag.
- if something is not working use the incomplete work flag.

✓ Yes ✕ No

Вы запустили демонстрацию экрана

exit

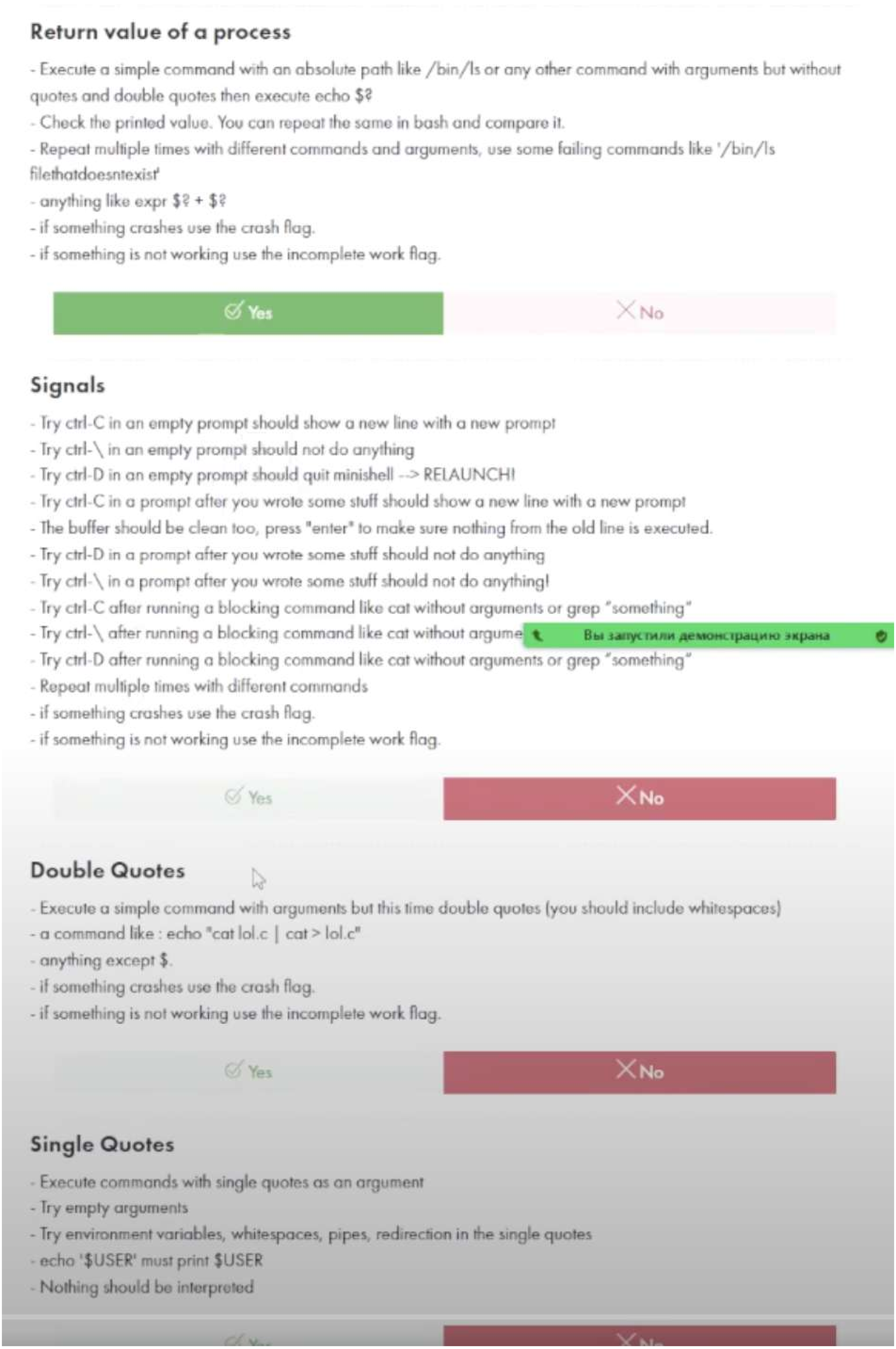
- Execute exit command with or without arguments
- Repeat multiple times with different arguments
- Don't forget to relaunch the minishell
- if something crashes use the crash flag.
- if something is not working use the incomplete work flag.

✓ 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 quotes and double quotes then execute echo $?
- Check the printed value. You can repeat the same in bash and compare it.
- Repeat multiple times with different commands and arguments, use some failing commands like '/bin/ls filethatdoesntexist'
- anything like expr $? + $?
- if something crashes use the crash flag.
- if something is not working use the incomplete work flag.

✓ Yes ✕ No



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[✓ Yes] ✕ No

Signals

- Try ctrl-C in an empty prompt should show a new line with a new prompt
- Try ctrl-\ in an empty prompt should not do anything
- Try ctrl-D in an empty prompt should quit minishell --> RELAUNCH!
- Try ctrl-C in a prompt after you wrote some stuff should show a new line with a new prompt
- The buffer should be clean too, press "enter" to make sure nothing from the old line is executed.
- Try ctrl-D in a prompt after you wrote some stuff should not do anything
- Try 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 argume

- Try ctrl-D after running a blocking command like cat without arguments or grep "something"
- Repeat multiple times with different commands
- if something crashes use the crash flag.
- if something is not working use the incomplete work flag.

✓ Yes [✕ No]

Double Quotes

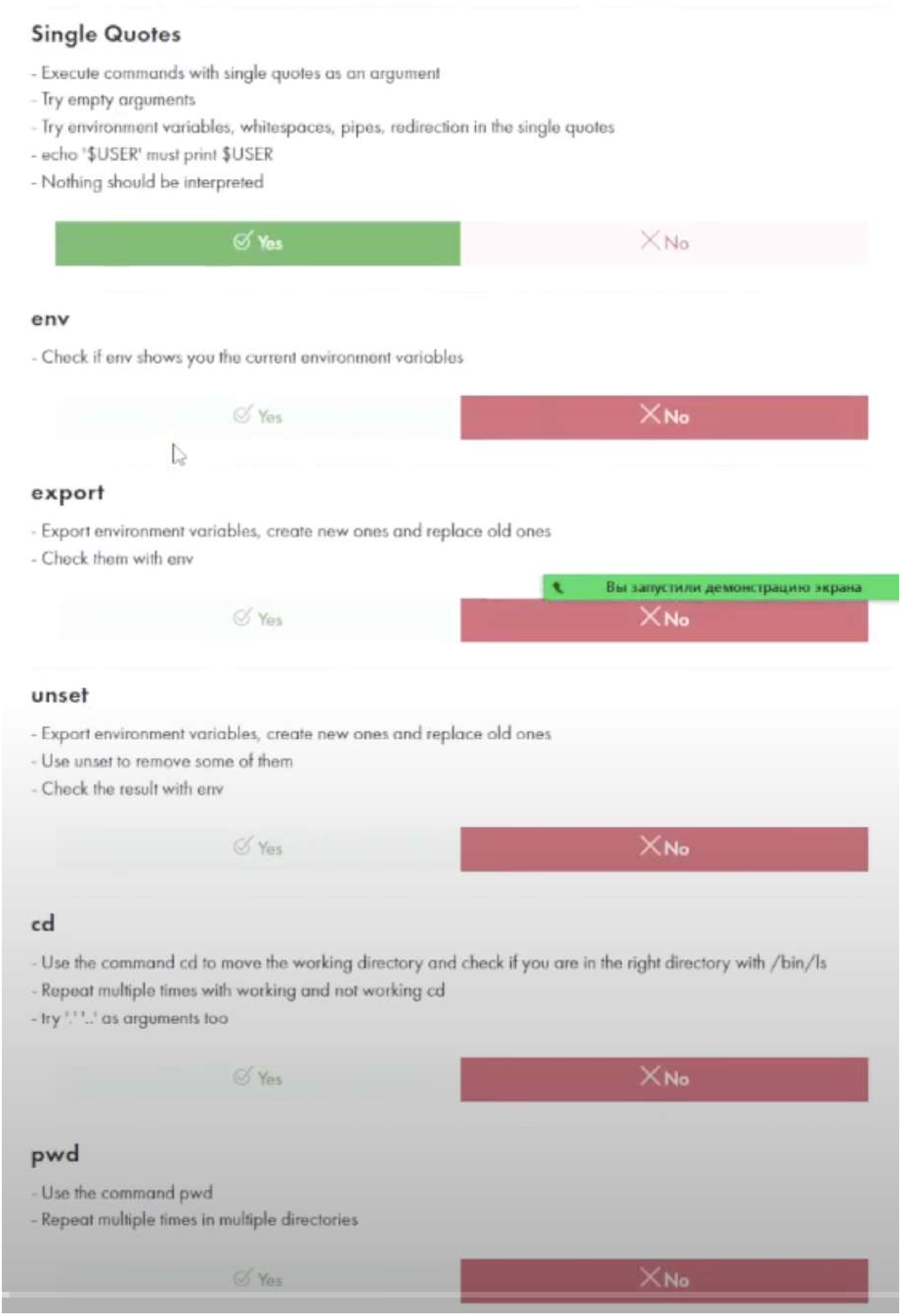
- Execute a simple command with arguments but this time double quotes (you should include whitespaces)
- a command like : echo "cat lol.c | cat > lol.c"
- anything except $.
- if something crashes use the crash flag.
- if something is not working use the incomplete work flag.

✓ Yes [✕ No]

Single Quotes

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

✓ Yes [✕ No]



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[✓ Yes] No

env

- Check if env shows you the current environment variables

Yes [✓ No]

export

- Export environment variables, create new ones and replace old ones
- Check them with env

Вы запустили демонстрацию экрана

Yes [✓ No]

unset

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

Yes [✓ No]

cd

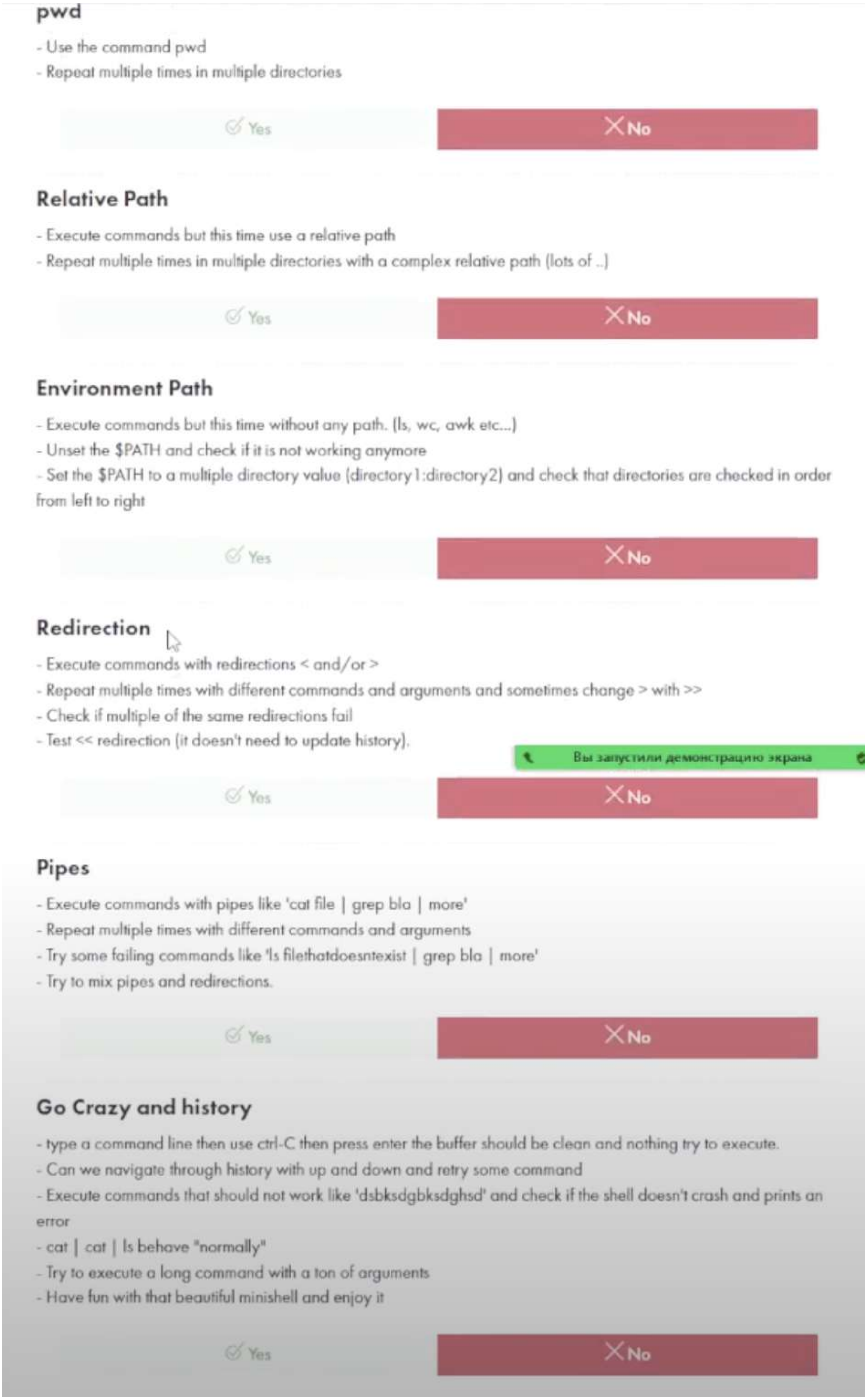
- Use the command cd to move the working directory and check if you are in the right directory with /bin/ls
- Repeat multiple times with working and not working cd
- try '.' '..' as arguments too

Yes [✓ No]

pwd

- Use the command pwd
- Repeat multiple times in multiple directories

Yes [✓ No]



pwd

- Use the command pwd
- Repeat multiple times in multiple directories

Relative Path

- Execute commands but this time use a relative path
- Repeat multiple times in multiple directories with a complex relative path (lots of ..)

Environment Path

- Execute commands but this time without any path. (ls, wc, awk etc...)
- Unset the $PATH and check if it is not working anymore
- Set the $PATH to a multiple directory value (directory1:directory2) and check that directories are checked in order from left to right

Redirection

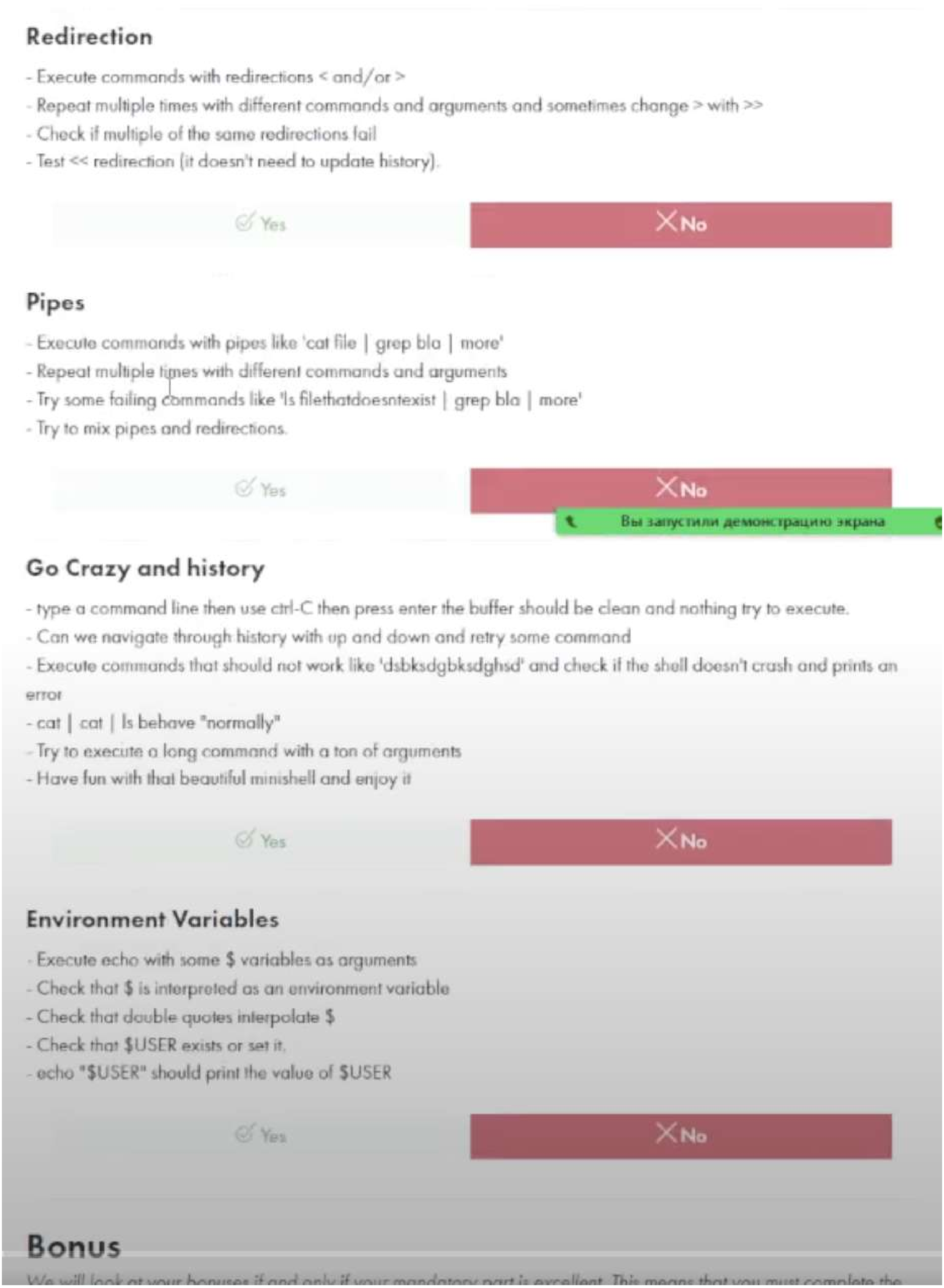
- Execute commands with redirections < and/or >
- Repeat multiple times with different commands and arguments and sometimes change > with >>
- Check if multiple of the same redirections fail
- Test << redirection (it doesn't need to update history).

Pipes

- Execute commands with pipes like 'cat file | grep bla | more'
- Repeat multiple times with different commands and arguments
- Try some failing commands like 'ls filethatdoesntexist | grep bla | more'
- Try to mix pipes and redirections.

Go Crazy and history

- type a command line then use ctrl-C then press enter the buffer should be clean and nothing try to execute.
- Can we navigate through history with up and down and retry some command
- Execute commands that should not work like 'dsbksdgbksdghsd' and check if the shell doesn't crash and prints an error
- cat | cat | ls behave "normally"
- Try to execute a long command with a ton of arguments
- Have fun with that beautiful minishell and enjoy it



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Environment Variables

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

Bonus

We will look at your bonuses if and only if your mandatory part is excellent. This means that you must complete the