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.

student or group. - Double-check that the Git repository belongs to the student(s). Ensure that

Guidelines

the project is the one expected. Also, check that 'git clone' is used in an empty folder.

Only grade the work that was turned in the Git repository of the evaluated

- 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. - 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 subject.pdf checker_Mac checker_linux

uncontrolled or unexpected termination of the program, else the final grade is 0. Use the appropriate flag. This rule is active thoughout the whole defence.

Mandatory part

appropriate flag.

Memory leaks Throughout the defence, pay attention to the amount of memory

Reminder: Remember that for the duration of the defence, no segfault, nor other unexpected, premature,

 \times N $_{\circ}$

 \times No

 \times N $_{\circ}$

 \times N $_{\circ}$

 \times N $_{\circ}$

Error management

section. Move to the next one.

grade is 0.

 Run push_swap with non numeric parameters. The program must display "Error". Run push_swap with a duplicate numeric parameter. The program must display "Error".

than MAXINT. The program must display "Error".

display anything and give the prompt back.

used by push_swap (using the command top for example) in order

to detect any anomalies and ensure that allocated memory is

properly freed. If there is one memory leak (or more), the final

✓ Yes

In this section, we'll evaluate the push_swap's error management.

If at least one fails, no points will be awarded for this

✓ Yes

Run push_swap without any parameters. The program must not

Run push_swap with only numeric parameters including one greater

tests. If at least one fails, no points will be awarded for this section. Move to the next one. Run the following command "\$>./push_swap 42". The program

In this section, we'll evaluate push_swap's behavior when given

a list, which has already been sorted. Execute the following 3

should display nothing (0 instruction). Run the following command "\$>./push_swap 2 3". The program should display nothing (0 instruction).

• Run the following command "\$>./push_swap 0 1 2 3". The

program should display nothing (0 instruction).

Run the following command "\$>./push_swap 0 1 2 3 4 5 6 7 8 9". The program should display nothing (0 instruction).

Otherwise the test fails.

Another simple version

Push_swap - Identity test

sorted values chosen>'. The program should display nothing (O instruction). ✓ Yes

Run the following command "\$>./push_swap 'Between 0 and 9 randomly

Push_swap - Simple version

section. Move to the next one. Use the checker binary given on the

If the following tests fails, no points will be awarded for this

attachments. Run "\$>ARG="2 1 0"; ./push_swap \$ARG | ./checker_OS \$ARG".

Check that the checker program displays "OK" and that the

size of the list of instructions from push_swap is 2 OR 3.

✓ Yes

Execute the following 2 tests. If at least one fails, no points

will be awarded for this section. Move to the next one. Use the checker

than 12. Kudos if the size of the list of instructions is 8.

- Run "\$>ARG="'Between 0 and 3 randomly values chosen'"; ./push_swap \$ARG | ./checker_OS \$ARG". Check that the checker program displays "OK" and that the size of the list of instructions from push_swap is between 0 AND 3. Otherwise the test fails.
- binary given on the attachments. Run "\$>ARG="1 5 2 4 3"; ./push_swap \$ARG | ./checker_OS \$ARG". Check that the checker program displays "OK" and that the size of the list of instructions from push_swap isn't more

Run "\$>ARG="<5 random values>"; ./push_swap \$ARG | ./checker_OS

\$ARG" and replace the placeholder by 5 random valid values.

Check that the checker program displays "OK" and that the

specifically check that the program wasn't developed to only

size of the list of instructions from push_swap isn't more

than 12. Otherwise this test fails. You'll have to

✓ Yes

If the following test fails, no points will be awarded for this

the list of instructions. Give points in accordance:

permutations before you validate it.

section. Move to the next one. Move to the next one. Use the checker

answer correctly on the test included in this scale. You should repeat this test couple of times with several permutations before you validate it.

binary given on the attachments.

less than 700: 5

less than 900: 4

less than 1100: 3

less than 1300: 2

Push_swap - Middle version

section. Move to the next one. Move to the next one. Use the checker

Push_swap - Advanced version If the following test fails, no points will be awarded for this

Run "\$>ARG="<500 random values>"; ./push_swap \$ARG | ./checker_OS \$ARG" and replace the

less than 11500: 1 You'll have to specifically check that the program wasn't developed to only answer

correctly on the test included in this scale. You should repeat this test couple of times with several

Rate it from 0 (failed) through 5 (excellent)

uncontrolled or unexpected termination of the program, else the final grade is 0. Use the appropriate flag. This rule

EXCELLENT. This means that you must complete the mandatory part, beginning to end, and your error management

is active throughout the whole defence. We will look at your bonuses if and only if your mandatory part is

Rate it from 0 (failed) through 5 (excellent)

Run "\$>ARG="<100 random values>"; ./push_swap \$ARG | ./checker_OS \$ARG" and replace the

placeholder by 100 random valid values. Check that the checker program displays "OK" and that the size of

less than 1500: 1 You'll have to specifically check that the program wasn't developed to only answer

correctly on the test included in this scale. You should repeat this test couple of times with several

placeholder by 500 random valid values (One is not called John/Jane Script for nothing). Check that the checker program displays "OK" and that the size of the list of instructions less than 5500: 5

less than 7000: 4

less than 8500: 3

o less than 10000: 2

binary given on the attachments.

Bonus Reminder: Remember that for the duration of the defence, no segfault, nor other unexpected, premature,

permutations before you validate it.

needs to be flawless, even in cases of twisted or bad usage. So if the mandatory part didn't score all the point during this defence bonuses will be totally IGNORED. Checker program - Error management

section. Move to the next one.

display "Error".

display "Error".

must display "Error".

In this section, we'll evaluate the checker's error management.

Run checker with non numeric parameters. The program must

Run checker with a duplicate numeric parameter. The program

Run checker with only numeric parameters including one greater

· Run checker with valid parameters, and write an action that

doesn't exist during the instruction phase. The program must

• Run checker with valid parameters, and write an action with

the instruction phase. The program must display "Error".

one or several spaces before and/or after the action during

If at least one fails, no points will be awarded for this

than MAXINT. The program must display "Error". Run checker without any parameters. The program must not display anything and give the prompt back.

Checker program - False tests

In this section, we'll evaluate the checker's ability to manage

a list of instructions that doesn't sort the list. Execute the

following 2 tests. If at least one fails, no points will be

pb, rrr]". Checker should display "KO".

✓ Yes

awarded for this section. Move to the next one. Don't forget to press CTRL+D to stop reading during the intruction phase.

7 3 6 4 5" then write the following valid action list "[sa,

Run checker with a valid list as parameter of your choice then

specifically check that the program wasn't developed to only

Run checker with the following command "\$>./checker 0 9 1 8 2

answer correctly on the test included in this scale. You should repeat this test couple of times with several permutations before you validate it.

write a valid instruction list that doesn't order the

integers. Checker should display "KO". You'll have to

Checker program - Right tests In this section, we'll evaluate the checker's ability to manage a list of instructions that sort the list. Execute the following 2 tests. If at least one fails, no points will be awarded for this section. Move to the next one.

 Run checker with the following command "\$>./checker 0 1 2" then press CTRL+D without writing any instruction. The program

Don't forget to press CTRL+D to stop reading during the

instruction phase.

it.

should display "OK".

then write the following valid action list "[pb, ra, pb, ra, sa, ra, pa, pa]". The program should display "OK".

• Run checker with the following command "\$>./checker 0 9 1 8 2"

- Run checker with a valid list as parameter of your choice then write a valid instruction list that order the integers.
- Checker must display "OK". You'll have to specifically check that the program wasn't developed to only answer correctly on the test included in this scale. You should repeat this test couple of times with several permutations before you validate

✓ Yes

 \times No

 \times N $_{\circ}$

×N∘