# Introduction Please comply with the following rules:

- Remain polite, courteous, respectful and constructive throughout the
- 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.

- the project is the one expected. Also, check that 'git clone' is used in an empty folder.
- evaluate something that is not the content of the official repository.
- 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 appropriate flag.
- **Attachments** Lesubject.pdf Leschecker\_Mac Leschecker\_linux

### is active thoughout the whole defence. Memory leaks

grade is 0.

Mandatory part

Throughout the defence, pay attention to the amount of memory 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

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

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

 $\times$ N $_{\circ}$ 

 $\times$ No

 $\times$ N $_{\circ}$ 

 $\times$ N $_{\circ}$ 

 $\times$ No

#### Run push\_swap with non numeric parameters. The program must display "Error".

**Error management** 

section. Move to the next one.

must display "Error".

Push\_swap - Identity test

section. Move to the next one.

(0 instruction).

 Run push\_swap without any parameters. The program must not display anything and give the prompt back. ✓ Yes

In this section, we'll evaluate push\_swap's behavior when given

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

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

program should display nothing (0 instruction).

program should display nothing (0 instruction).

than MAXINT. The program must display "Error".

In this section, we'll evaluate the push\_swap's error management.

· Run push\_swap with a duplicate numeric parameter. The program

Run push\_swap with only numeric parameters including one greater

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

 Run the following command "\$>./push\_swap 42". The program should display nothing (0 instruction). Run the following command "\$>./push\_swap 2 3". The

Run the following command "\$>./push\_swap 0 1 2 3". The

Run the following command "\$>./push\_swap 0 1 2 3 4 5 6 7 8

- The program should display nothing (0 instruction). Run the following command "\$>./push\_swap 'Between 0 and 9 randomly sorted values chosen>'. The program should display nothing
- Push\_swap - Simple version
- If the following tests fails, no points will be awarded for this section. Move to the next one. Use the checker binary given on the attachments.

Run "\$>ARG="2 1 0"; ./push\_swap \$ARG | ./checker\_OS \$ARG".

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

"OK" and that the size of the list of instructions from push\_swap

is between 0 AND 3. Otherwise the test fails.

✓ Yes

size of the list of instructions from push\_swap is 2 OR 3. Otherwise the test fails. Run "\$>ARG="Between 0 and 3 randomly values chosen'"; ./push\_swap \$ARG | ./checker\_OS \$ARG". Check that the checker program displays

#### 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 binary given on the attachments.

Another simple version

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

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 it.

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

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

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

Push\_swap - Middle version

binary given on the attachments. • 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 the list of instructions. Give points in accordance: less than 700: 5 less than 900: 4 less than 1100: 3 less than 1300: 2 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 permutations before you validate it.

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

Run "\$>ARG="<500 random values>"; ./push\_swap \$ARG | ./checker\_OS \$ARG" and replace the

placeholder by 500 random valid values (One is not called John/Jane Script for nothing). Check that the

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)

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

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

 $\times$ N $_{\circ}$ 

 $\times$ N $_{\circ}$ 

#### less than 7000: 4 less than 8500: 3 less than 10000: 2 less than 11500: 1 You'll have to specifically check that the program wasn't developed to only answer

less than 5500: 5

binary given on the attachments.

Push\_swap - Advanced version

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

permutations before you validate it.

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

checker program displays "OK" and that the size of the list of instructions

Bonus Reminder: Remember that for the duration of the defence, no segfault, nor other unexpected, premature, uncontrolled or unexpected termination of the program, else the final grade is 0. Use the appropriate flag. This rule

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

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 without any parameters. The program must not

Run checker with valid parameters, and write an action that

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

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

than MAXINT. The program must display "Error".

display anything and give the prompt back.

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

section. Move to the next one.

display "Error".

display "Error".

must display "Error".

 Run checker with valid parameters, and write an action with one or several spaces before and/or after the action during the instruction phase. The program must display "Error".

✓ Yes

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

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

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

awarded for this section. Move to the next one.

Checker program - False tests

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

write a valid instruction list that doesn't order the

✓ Yes

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

Checker program - Right tests

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

- answer correctly on the test included in this scale. You should repeat this test couple of times with several permutations before you validate it.
- this section. Move to the next one. Don't forget to press CTRL+D to stop reading during the instruction phase. Run checker with the following command "\$>./checker 0 1 2" then press CTRL+D without writing any instruction. The program
  - 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
- Ratings Don't forget to check the flag corresponding to the defense ✓ Ok

Invalid compilation 🎜 Norme

- Check carefully that no malicious aliases was used to fool you and make you To avoid any surprises and if applicable, review together any scripts used

**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

evaluation process. The well-being of the community depends on it. Identify with the student or group whose work is evaluated the possible

Empty work Incomplete work T Crash ▲ Concerning situation

Leaks

should display "OK". Run checker with the following command "\$>./checker 0 9 1 8 2" then write the following valid action list "[pb, ra, pb, ra, sa, ra, pa, pa]". The program should display "OK".

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

write a valid instruction list that order the integers.

it.

couple of times with several permutations before you validate

★ Outstanding project

Cheat Forbidden function