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Remember that the quality of the defenses, hence the quality of the of the school on the labor market depends on you. The remote defences during the Covid crisis allows more flexibility so you can progress into your curriculum, but also brings more risks of cheat, injustice, laziness, that will harm everyone's skills development. We do count on your maturity and wisdom during these remote defenses for the benefits of the entire community.

## SCALE FOR PROJECT GET\_NEXT\_LINE (/PROJECTS/42CURSUS-GET\_NEXT\_LINE)

You should evaluate 1 student in this team

Git repository



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## Introduction

- Remain polite, courteous, respectful and constructive throughout the evaluation process. The well-being of the community depends on it.
- Identify with the person (or the group) evaluated the eventual dysfunctions of the work. Take the time to discuss and debate the problems you have identified.
- You must consider that there might be some difference in how your peers might have understood the project's instructions and the scope of its functionalities. Always keep an open mind and grade him/her as honestly as possible. The pedagogy is valid only and only if peer-evaluation is conducted seriously.

## Guidelines

- Only grade the work that is in the student or group's GiT repository.
- Double-check that the GiT repository belongs to the student or the group. Ensure that the work is for the relevant project and 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 other than the content of the official repository.
- To avoid any surprises, carefully check that both the evaluating and the evaluated students have reviewed the possible scripts used to facilitate the grading.
- If the evaluating student has not completed that particular project yet, it is mandatory for this student to read the entire subject prior to starting the defence.
- Use the flags available on this scale to signal an empty repository, non-functioning program, a norm error, cheating etc. In these cases, the grading is over and the final grade is 0 (or -42 in case of cheating). However, with the exception of cheating, you are encouraged to continue to discuss your work (even if you have not finished it) in order to identify any issues that may have caused this failure and avoid repeating the same mistake in the future.
- Remember that for the duration of the defence, no segfault, no other unexpected, premature, uncontrolled or unexpected termination of the program, else the final grade is 0. 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.

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## Attachments

📄 [subject.pdf \(https://cdn.intra.42.fr/pdf/pdf/26401/en.subject.pdf\)](https://cdn.intra.42.fr/pdf/pdf/26401/en.subject.pdf)

## Mandatory Part

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Norminette

Run the norminette.

If there is an error the evaluation stops here.

You can keep going and discuss the implementation of the code,  
but it will not be graded.

☐ Yes☐ No

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### Error Management

Carry out AT LEAST the following tests to try to stress the error  
management

- Pass an arbitrary file descriptor to the `get_next_line` function  
on which it is not possible to read, for example 42. The  
function must return NULL.
- Check the error returns for read and malloc.

If there is an error the evaluation stops here.

You can keep going and discuss the implementation of the code,  
but it will not be graded.

☐ Yes☐ No

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### Testing

As the evaluator, you are expected to provide a main which will always check:

- The return value of the `get_next_line` is NULL in case of error.
- Otherwise, the function returns the line read, always with a `\n`  
at the end. Test all the possible combinations of the following  
rules:

- Large `BUFFER_SIZE` (>1024)
- Small `BUFFER_SIZE` (< 8, and 1)
- `BUFFER_SIZE` exactly the length of the line to read
- 1 byte variant (+/-) between the line and the `BUFFER_SIZE`

- Read on stdin
- Read from a file

- (Multiple/Single) Long line (2k+ characters)
- (Multiple/Single) Short line (< 4 characters, even 1)
- (Multiple/Single) Empty line

These tests should allow you to verify the strength of the  
student's `get_next_line`.

If there is an error the evaluation stops here.

☐ Yes☐ No

## Bonus

*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 must be flawless, even in cases of twisted or bad usage. So if you didn't score all the points on the mandatory part during this defence bonuses will be totally ignored.*

### Multiple fd reading

Perform the same tests as you did before, this time launch multiple instances of `get_next_line` with a different file descriptor on each. Make sure that each `get_next_line` is returning the correct line, combine with a non-existing fd to check for errors.

☒ Yes

☐ No

### Single static variable

Check the code and verify if there is indeed a single static variable. Give the points if that's the case.

☒ Yes

☐ No

## Ratings

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

☒ Ok

☐ Outstanding project

☐ Empty work

☐ No author file

☐ Invalid compilation

☐ Norme

☐ Cheat

☐ Crash

☐ Leaks

☐ Forbidden function

## Conclusion

Leave a comment on this evaluation

**Finish evaluation**

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