

(https://profile.intra.42.fr)

Remember that the quality of the defenses, hence the quality of the school on the labor market depends on you. The remote defenses 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 DUREX (/PROJECTS/42CURSUS-DUREX)

You should evaluate 1 student in this team



Git repository

`git@vogsphere.msk.21-school.ru:vogsphere/intra-uuid-61aa6`



## Introduction

For the smooth running of this evaluation, please respect the following rules:

- Remain polite, kind, respectful and constructive whatever happens during this conversation. It's a matter of confidence between you and the 42 community.
- Highlight the potential problems you've had with the work you're presented to the person or the group you're grading, and take the time to talk about and discuss those issues.
- Accept the fact that the exam subject or required functions might lead to different interpretations. Listen to your discussion partner's perspective with an open mind (are they right or wrong ?) and grade them as fairly as possible.  
42's teaching methods can make sense only if peer-evaluation is taken seriously.

## Guidelines

- You must only evaluate what you will find in the student's or group's GiT repository.
- Take the time to check that the GiT repository matches the student or group and the project.

- Double check that no malicious alias was used to mislead you and make you grade something different from the official repository content.
- If a script supposed to help evaluate the exam is supplied by either side, the other side will have to strictly check it to avoid nasty surprises.
- If the evaluating student has not yet taken this project, they will have to read the exam subject in its entirety before starting the evaluation.
- Use the flags available on this grading system to signal an empty or non-functional project, a norm flaw, cheating, etc. In that case, evaluation stops and final grade is 0 (or -42 if it's a cheating problem). However, if it's not a cheating problem, you are invited to keep talking about the work that has been done (or not done, as a matter of fact) in order to identify the issues that lead to this stalemate and avoid it next time.

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## Attachments

 subject.pdf (<https://cdn.intra.42.fr/pdf/pdf/13240/en.subject.pdf>)

## Durex source

*Preleminaries.*

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### Preleminaries

Before evaluation begins, make sure:

- The evaluation takes place in a virtual machine running on the OS chosen by the student owning root rights.
- The project is in C or assembler.
- The project uses fork chdir functions.
- A Makefile containing the usual rules is included.

Also make sure the project doesn't use libraries that might impair the educationnal value of the project. In other words, the library(ies) shouldn't be able to make cofee by itself (or themselves).

If one of these points is invalid, evaluation stops.

 Yes

 No

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## Durex usage

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### Trojan launch

The assessed student must be able to show that the 4242 port is not in LISTEN mode.

Launch the program as the root user. The student's login must be visible on the standard out port. The program quits without any error.

The assessed student must be able to show that the 4242 port is now in LISTEN mode. No error should be visible.

If one of these conditions is not observed, evaluation stops.

✓ Yes

✗ No

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### Trojan usage attempt

Try to connect using the command "netcat 4242" on the distant machine. A prompt should ask for a password.

If the password is incorrect, the prompt should ask for a new password. When the password is correct, a new prompt opens.

In the source code, make sure the required password is not coded in clear.

If one of these conditions is not observed, evaluation stops.

✓ Yes

✗ No

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### Trojan usage

Now, relaunch the VM and try to reconnect on this machine using the command "netcat 4242".

When the password is entered, a new prompt appears. Launch the command to open the second shell Lorsque le password entré est correct, un nouveau prompt est alors ouvert. Lancer la commande pour ouvrir le second shell with the root rights.

Finally, when quitting the reverse shell, connection shuts correctly.

If one of these conditions is not observed, evaluation stops.

✓ Yes

✗ No

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## Trojan attempt error

## Basic trojan

Try to connect more than 3 clients on the daemon simultaneously. An error message should appear to show the problem on the client side only.

Except for this specific prompt, the trojan should never show any error message on the infected computer (outport or log).

If one of these conditions is not observed, evaluation stops..

✓ Yes

✗ No

## Advanced trojan

Assessed student can try to crash their trojan. In case of unexpected quitting, the daemon should quit properly and no message should appear on the computer of the infected person.

If one of these conditions is not observed, evaluation stops.

✓ Yes

✗ No

# Trojan implementation

## Implementation

The chosen implementation method is completely adapted to the usage. Lowest grade will be given to a basique turn-in with very few explanations.

Highest grade will be given if a quine is used and its implementation is clearly explained.

If one of these conditions is not observed, evaluation stops.

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



## Trojan bonus

*Bonus will be taken into account only if the mandatory part is PERFECT. PERFECT meaning it is completed, that its behavior cannot be faulted, even because of the slightest mistake, improper use, etc... Practically, it means that if the mandatory part is not validated, none of the bonus will be taken in consideration.*

## Bonuses for this project

Bonuses should be remotely useful and implemented correctly. Grade them at your discretion.

Here are examples of valid bonuses:

- Useful functions.
- Use of packing.
- Advanced system authentication.
- ...



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

## 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



Incomplete group



Forbidden function

## Conclusion

Leave a comment on this evaluation

Finish evaluation

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