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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 CPP MODULE 06 (/PROJECTS/CPP-MODULE-06)

You should evaluate 1 student in this team



Git repository

git@vogosphere-v2-bg.1337.ma:vogosphere/intra-uuid-827d499f-e



Introduction

- 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 were 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 before 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, except for cheating, you are

encouraged to continue to discuss your work (even if you have not finished it) 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 defense, 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.

Disclaimer

Please respect 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 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

You must compile with clang++, with -Wall -Wextra -Werror

As a reminder, this project is in C++98.

C++11 members functions or containers are NOT expected.

Any of these means you must not grade the exercise in question:

- A function is implemented in a header (except in a template)
- A Makefile compiles without flags and/or with something other than clang++

Any of these means that you must flag the project as Forbidden Function:

- Use of a "C" function (*alloc, *printf, free)

- Use of a function not allowed in the subject
- Use of "using namespace" or "friend"
- Use of an external library, or C++11 (and later) features

Attachments

 subject.pdf (<https://cdn.intra.42.fr/pdf/pdf/28409/en.subject.pdf>)

Exercise 00: Scalar conversion

This exercise shows usage of the `static_cast`.

Scalar conversion

Is the program running as intended, and did the student use the `static_cast` to convert values? We'll accept the use of implicit casts for promotion casts only.

Anyway, please don't be too uncompromising towards the exercise's outputs if the spirit of the exercise is respected. Failing this exercise does not prevent grading the next ones.

☒ Yes

☐ No

Exercise 01: Serialization

This exercise shows usage of the `reinterpret_cast`.

Retyping of raw data

Is the program running as intended?
`reinterpret_cast<>` should be used twice
Once from `data*` to `uintptr_t`.
The second from `uintptr_t` to `data*`.
And the final data struct should be usable.

☒ Yes

☐ No

Exercise 02: Identify real type

This exercise shows usage of the `dynamic_cast`.

Real type identification

Is the program running as intended?

Check the code and did the student use the

dynamic_casts to identify the real type?

void identify(Base* p) should check if the cast return is NULL.

void identify(Base& p) should use a try-catch to check if the cast failed.

(In case you're wondering, the header must not appear anywhere.)

 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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