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SCALE FOR PROJECT CPP MODULE 09 (/PROJECTS/ CPP-MODULE-09)

You should evaluate 1 student in this team



Git repository

git@vogsphere.42paris.fr:vogsphere/intra-uuid-ec92f1c1-fba1-417b-a190

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.

Attachments

 [input.csv \(https://cdn.intra.42.fr/document/document/35900/input.csv\)](https://cdn.intra.42.fr/document/document/35900/input.csv)

 [subject.pdf \(https://cdn.intra.42.fr/pdf/pdf/168876/en.subject.pdf\)](https://cdn.intra.42.fr/pdf/pdf/168876/en.subject.pdf)

 [cpp_09.tgz \(https://cdn.intra.42.fr/document/document/35901/cpp_09.tgz\)](https://cdn.intra.42.fr/document/document/35901/cpp_09.tgz)

Preliminary tests

If cheating is suspected, the evaluation stops here. Use the "Cheat" flag to report it. Take this decision calmly, wisely, and please, use this button with caution.

Prerequisites

The code must compile with c++ and the flags -Wall -Wextra -Werror

Don't forget this project has to follow the C++98 standard. Thus, C++11 (and later) are NOT expected.

The purpose of this module is to use the STL. Then, using the containers is authorized.

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

- A function is implemented in a header file (except for template functions).
- A Makefile compiles without the required flags and/or another compiler than c++.

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

- Use of a "C" function (*alloc, *printf, free).
- Use of a function not allowed in the exercise guidelines.
- Use of an external library, or features from versions other than C++98.

☒ Yes

☐ No

Exercise 00: Bitcoin Exchange

For this first exercise, you have to find a makefile with the usual compilation rules and the files requested in the subject.

Code review

Check that a makefile is present with the usual compilation rules.

Check in the code that the program uses at least one container.

The person being evaluated must explain why they chose to use this container and not another.

If not, the evaluation stops here.

☒ Yes☐ No**Error handle**

You must be able to use an empty file or a file with errors (a basic example exists in the subject). The program must not stop its execution before having performed the operations on the whole file passed as argument.

You can use a wrong date.

You can enter a value greater than 1000 or less than 0.

If there is any problem during the execution then the evaluation stops here.

☒ Yes☐ No**Main usage**

You must now use the "input.csv" file located at the top of this page.

You can modify this file with the values you want.

You have to run the program with the input.csv file as parameter.

Please compare some dates manually with the specified value.

If the date does not exist in the database, the program will have to use the nearest lower date.

☒ Yes☐ No

Exercise 01: Reverse Polish Notation

For this second exercise, you have to find a makefile with the usual compilation rules and the files requested in the subject.

Code review

Check that a makefile is present with the usual compilation rules.

Check in the code that the program uses at least one container.

The person being evaluated must explain why they chose to use this container and not another?

If not, the evaluation stops here.

If the container chosen here is present in the first exercise then the evaluation stops here.

☒ Yes☐ No

Main usage

Check that the program runs correctly using different formulas of your choice.

The program is not required to handle expressions with parenthesis or decimals number.

If there is any problem during the execution then the evaluation stops here.

☒ Yes☐ No

Usage advanced

Check that the program runs correctly using different formulas of your choice.

Here is some tests:

```
8 9 * 9 - 9 - 9 - 4 - 1 +
> Result: 42
```

```
9 8 * 4 * 4 / 2 + 9 - 8 - 8 - 1 - 6 -
> Result: 42
```

```
1 2 * 2 / 2 + 5 * 6 - 1 3 * - 4 5 * * 8 /
> Result: 15
```

You can use the examples in the topic if you don't know which formula to use.

If there is any problem during the execution then the evaluation stops here.

☒ Yes☐ No

Exercise 02: PmergeMe

As usual, there has to be enough tests to prove the program works as expected. If there isn't, do not grade this exercise. If any non-interface class is not in orthodox canonical class form, do not grade this exercise.

Code review

Check that a makefile is included with the usual compilation rules.

Check in the code that the program uses at least two containers.

If not, the evaluation stops here.

The person being evaluated must explain why they chose to use these containers and not another?

Check in the code that the merge-insert sort algorithm is present and is used for each container. The Ford-Johnson algorithm **must** be used.

If the Ford-Johnson sorting algorithm is not used, the evaluation stops here and **no points are awarded for any subsequent sections.**

The student must be capable of explaining the following concepts:

- The key aspects of merge insertion, specifically the role of pairs.
- The Jacobsthal sequence and its relevance.
- The process of binary search.

A brief explanation is expected. In case of doubt, the evaluation stops here and no points will be awarded for the subsequent parts of the evaluation.

If one of the containers chosen here is included in one of the previous exercises then the evaluation stops here.

✓ Yes

✗ No

Main usage

If the Ford-Johnson algorithm is used and all code review criteria are satisfied, you can now manually check that the program works correctly by using between 5 and 10 different positive integers of your choice as program arguments.

If this first test works and gives a sorted sequence of numbers you can continue.
If not, the evaluation stops now.

Now you have to check this operation by using the following command as an argument to the program:

For linux:

```
`shuf -r -i 1-1000 -n 3000 | tr "\n" " " `
```

For OSX:

```
`jot -r 3000 1 1000 | tr '\n' ' '`
```

If the command works correctly, the person being evaluated should be able to explain the difference in time used for each container selected.

If there are any problems during the execution and/or explanation then the evaluation stops here.

Note: No points should be awarded for this section if the Ford-Johnson algorithm is not used, as per the Code Review section.

✓ Yes

✗ No

Ratings

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

✓ Ok

★ Outstanding project

Empty work

📄 Incomplete work

⚙️ Invalid compilation

📖 Cheat

💥 Crash

⚠️ Concerning situation

💧 Leaks

🚫 Forbidden function

💬 Can't support / explain code

Conclusion

Leave a comment on this evaluation (2048 chars max)

Yann wrote clear code which works as expected and

Finish evaluation

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