

## SCALE FOR PROJECT CPP MODULE (/PROJECTS/ CPP-MODULE-07)

You should evaluate 1 student in this team



Git repository

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### Introduction

Please comply with 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 student or group whose work is evaluated the possible 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.

### Guidelines


- Only grade the work that was turned in the Git repository of the evaluated student or group.
- Double-check that the Git repository belongs to the student(s). Ensure that the project is the one expected. 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 that is not the content of the official repository.
- To avoid any surprises and if applicable, review together any scripts used 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 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

 ex00.cpp (https://cdn.intra.42.fr/document/document/29963/ex00.cpp)

 ex01.cpp (https://cdn.intra.42.fr/document/document/29964/ex01.cpp)

 subject.pdf (<https://cdn.intra.42.fr/pdf/pdf/148439/en.subject.pdf>)

 main.cpp (<https://cdn.intra.42.fr/document/document/29965/main.cpp>)

## Preliminary tests

*If cheating is suspected, the evaluation stops here. Use the "Cheat" flag to report it. Take this 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) 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 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 "using namespace <ns\_name>" or the "friend" keyword.
- Use of an external library, or features from versions other than C++98.

☒ Yes

☐ No

## Exercise 00: Start with a few functions

*This exercise is about writing 3 simple function templates: swap(), min() and max().*

### Makefile

There is a Makefile that compiles using the appropriate flags.

If this is not the case, the evaluation of this exercise stops here. you can move on to the next exercise.

☒ Yes

☐ No

### Simple types

Refer to the subject for the expected output with simple types, such as int.

☒ Yes

☐ No

### Complex types

Do the functions also work with complex types? (check with the ex00.cpp file in attachment)

☒ Yes

☐ No

## Exercise 01: Iter

*This exercise is about writing a generic function to iterate through arrays.*

### Makefile

There is a Makefile that compiles using the appropriate flags.

If this is not the case, the evaluation of this exercise stops here. you can move on to the next exercise.

☒ Yes

☐ No

### Does it work?

Test the code ex01.cpp (in attachments) with the iter of the evaluated student.  
If everything went well, it should display:

0  
1  
2  
3  
4  
42  
42  
42  
42  
42

✓ Yes

✕ No

## Exercise 02: Array

*This exercise is about writing a class template that behaves like an array. If the inner allocation does not come from a use of new[], don't grade this exercise. Ask the evaluated student to pro works with arrays of both simple and complex types before grading the exercise.*

### Makefile

There is a Makefile that compiles using the appropriate flags.  
If this is not the case, the evaluation of this exercise stops here. you can move on to the next e

✓ Yes

✕ No

### Constructors

Is it possible to create an empty array and an array of a specific size?

✓ Yes

✕ No

### Access

Elements must be accessible for reading and writing through the operator[]  
(or reading only if the instance is const). Access to an element which is  
out of range must throw an std::exception.

✓ Yes

✕ No

## Ratings

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

✓ Ok

★ Outstanding project

Empty work

📄 Incomplete work

⚙️ Invalid compilation

📋 Cheat

⚠️ Concerning situation

💧 Leaks

🚫 Forbidden function

💬 Can't sup

## Conclusion

Leave a comment on this evaluation ( 2048 chars max )

Finish evaluation