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## SCALE FOR PROJECT CPP MODULE 02 (HTTPS://PROJECTS.INTRA.42.FR/PROJECTS/CPP-MODULE-02)

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**

□ subject.pdf (https://cdn.intra.42.fr/pdf/pdf/102895/en.subject.pdf)

## **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) 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: My First Class in Orthodox Canonical Form**

This exercise introduces the notion of canonical class with a simple arithmetic example: the fixed-point numbers.

### Makefile

There is a Makefile that compiles using the appropriate flags.

	□ Yes	□ No
Accessors		
The Fixed class (or wha the raw value:	atever its name) must provide	accessors to
<ul><li>int getRawBits( vo</li><li>void setRawBits(</li></ul>		nber functions present and functional?
	□ Yes	□ No
Canonical		
A canonical class must	provide at least:	
A default construction	ctor	
A destructor		
A copy constructo		ate present and function -10
An copy assignm	ent operator Are these elemer	nis present and functional?
		nore useful fixed-point
number cla	I: Towards a nuss	
number cla	I: Towards a nuss	nore useful fixed-point
number cla The previous exercise verepresent the fixed-point Makefile	I: Towards a nuss	nore useful fixed-point was still pretty useless since it was only able to
number cla The previous exercise verepresent the fixed-point Makefile	1: Towards a nass uss was a good start, but the class of value 0.0.	nore useful fixed-point was still pretty useless since it was only able to
number cla The previous exercise verepresent the fixed-point Makefile	1: Towards a name of the start of the class	nore useful fixed-point  was still pretty useless since it was only able to  te flags.
number cla The previous exercise v represent the fixed-poin  Makefile There is a Makefile that  Floating-point constru	1: Towards a name of the start of the class	nore useful fixed-point  was still pretty useless since it was only able to  te flags.
number cla The previous exercise v represent the fixed-poin  Makefile There is a Makefile that  Floating-point constru	1: Towards a name of the class	nore useful fixed-point  was still pretty useless since it was only able to  te flags.
number cla The previous exercise v represent the fixed-poin  Makefile There is a Makefile that  Floating-point constru	1: Towards a name of the class	nore useful fixed-point  was still pretty useless since it was only able to  te flags.  No  No
number cla The previous exercise verepresent the fixed-point Makefile There is a Makefile that Floating-point constructs it possible to constructs  << operator	1: Towards a name of the class	nore useful fixed-point  was still pretty useless since it was only able to  te flags.  No  No
number cla The previous exercise verepresent the fixed-point Makefile There is a Makefile that Floating-point constructs it possible to constructs  << operator	I: Towards a name of the second start, but the class of value 0.0.  compiles using the appropriate a yes  contactor  cont	nore useful fixed-point  was still pretty useless since it was only able to  te flags.  No  No

### Fixed-point value to integer value

A member function "int toInt( void ) const;" that converts the fixed-point value to an integer value must be present. Is it functional?

	□ Yes	□ No
Fixed-point value	to floating point value	
	n \"float toFloat( void ) const;\" that converts ue to a float value must be present. Is it functional?	
	□ Yes	□ No
Integer construct	or	
Is it possible to cor	nstruct an instance from an integer value?	
	□ Yes	□ No
	02: Now we are talking s comparison and arithmetic features to the class.	
Makefile		
There is a Makefile	e that compiles using the appropriate flags.	
	□ Yes	□ No
Comparison oper Are the 6 comparis	rators son operators (>, <, >=, <=, == and !=) implemented a	and working properly?
	□ Yes	□ No
Arithmetic operat	tors	
Are the 4 arithmeti	ic operators (+, -, * and /) implemented and working p	
(if you ever do a di	ivision by 0, it is acceptable that the program crashes	)
(if you ever do a di	ivision by 0, it is acceptable that the program crashes  ☐ Yes	) □ No
(if you ever do a di		
Other operators Are the pre-increm		□ No
<b>Other operators</b> Are the pre-increm	□ Yes nent, post-increment, pre-decrement and post-decrem	□ No
Other operators Are the pre-increm operators impleme	□ Yes  nent, post-increment, pre-decrement and post-decremented and working properly?	□ No nent
Other operators Are the pre-increm operators impleme Static member fu	□ Yes  nent, post-increment, pre-decrement and post-decremented and working properly?  □ Yes	□ No nent

# **Exercise 03: BSP**

This exercise should have make you realize how easy it is to implement complex algorithms once the basics work as intended.

Makefile					
There is a Makefile the	at compiles using the app	ropriate flags.			
	□ Yes		□ No		
Class Point					
	which has two attributes nstructor that takes two fl es.				
	□ Yes		□ No		
Function bsp					
	a, Point const b, Point corue if the point is inside the.	onst c, Point const point)". ne triangle described by			
	□ Yes		□ No		
Main and tests					
	in to test that the function ake sure that the return va				
	□ Yes		□ No		
Ratings					
Don't forget to check the flag corresponding to the defense					
□ Ok		□ Outstanding project			
Empty work	☐ Incomplete work	W Invalid compilation	□ Cheat	d Crash	
□ Concerning situati	on □ Leaks	1 Forbidden function	□ Can't support	/ explain code	

## Conclusion

Leave a comment on this evaluation

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Finish evaluation			

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