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ckandy

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# SCALE FOR PROJECT CPP MODULE 02 (/PROJECTS/CPP-MODULE-02)

You should evaluate 1 student in this team



Git repository

git@vogsphere.kzn.21-school.ru:vogsphere/intra-uuid-cf91



## 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/52150/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" or the "friend" keyword.
- Use of an external library, or features from versions other than C++98.



## **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. XNo ✓ Yes **Accessors** The Fixed class (or whatever its name) must provide accessors to the raw value: - int getRawBits(void) const; - void setRawBits( int const raw ); Are these member functions present and functional? ✓ Yes XNo Canonical A canonical class must provide at least: - A default constructor - A destructor - A copy constructor - An copy assignment operator Are these elements present and functional? XNo ✓ Yes

## Exercise 01: Towards a more useful fixed-point number class

The previous exercise was a good start, but the class was still pretty useless since it was only able to represent the fixed-point value 0.0.

#### Makefile

There is a Makefile that compiles using the appropriate flags.

XNo ✓ Yes

Floating-point constructor

	✓ Yes	×No
<< operator		
s there a << ope	rator overload and is it functional?	
	⊗ Yes	XNo
Fixed-point va	lue to integer value	
	on "int toInt( void ) const;" that converts the to an integer value must be present. Is it fu	nctional?
	⊗ Yes	XNo
Fixed-point va	lue to floating point value	
	on \"float toFloat( void ) const;\" that convalue to a float value must be present. Is it fur	
		XNo
nteger constru	ıctor	
s it possible to co	onstruct an instance from an integer value?	
	⊗ Yes	×No
	e 02: Now we are	talking
	ls comparison and arithmetic features to the	e class.
		e class.
This exercise add		
This exercise add	ls comparison and arithmetic features to the	
This exercise add	ls comparison and arithmetic features to the	j.
This exercise add  Makefile  There is a Makefi  Comparison or	ls comparison and arithmetic features to the	s. ×No

⊗ Yes		X No			
Other operators					
Are the pre-increment, post-increment, pre-decrement and post-decrement operators implemented and working properly?					
⊗ Yes		XNo			
Static member functions over	rloads				
Last but not least, test the the min() are implemented and working pro		r functions			
⊗ Yes		XNo			
work as intended. Makefile		o implement complex algorithms once the basics			
work as intended.					
work as intended. Makefile					
work as intended.  Makefile  There is a Makefile that compiles t		gs.			
work as intended.  Makefile  There is a Makefile that compiles t	using the appropriate flag	gs. × No ype Fixed			
work as intended.  Makefile  There is a Makefile that compiles the second of the secon	using the appropriate flag	gs. × No ype Fixed			
Makefile  There is a Makefile that compiles to   Yes  Class Point  There is a class Point which has two const. It also has a constructor that and y with those values.	using the appropriate flag	gs.  ×No  ype Fixed ialize x			
work as intended.  Makefile  There is a Makefile that compiles to Yes  Class Point  There is a class Point which has two const. It also has a constructor that and y with those values.	using the appropriate flag  vo attributes (x and y) of too  attributes two floats and inite  ototype is  anst b, Point const c, Point of	gs.  No  ype Fixed ialize x  No			

			XNo	
Ratings				
Don't forget to check	the flag corresponding to t	the defense		
<b>✓</b> Ok		★ Outstanding project		
Empty work	▲ Incomplete work	nvalid compilation	<b>₽</b> Cheat <b>\$</b> Crash	
▲ Concernin	g situation	<b>♦</b> Leaks	<b>⊘</b> Forbidden function	
Conclusio	n			
Leave a comment on t	his evaluation			
	<i>(</i> )			

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