## **SCALE FOR PROJECT CPP MODULE 02**

ing to evaluate, you ha

the evaluation stops here. Use the "Cheat" flag to report it. Take this decision calmly, wisely, on with caution.

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 $\times_{\mathsf{No}}$ 

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ΧNο

ase comply with the following rule

Introduction

main polite, courteous, respectful and constructive throughout th luation process. The well-being of the community depends on it.

Identify with the student or group whose work is evaluated the post 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 pee 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 extudent 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 togeth

to facilitate the grading (scripts for testing or automation).

- If you have not completed the assignment you are going to eva 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 on 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 alloct the heap must be properly freed before the end of execution. You are allowed to use any of the different tools available on the comps such as leaks, volgrind, or e\_fence. In case of memory leaks, lick the

Preliminary tests

The code must compile with c++ and the flags -Wall -Wextra -W.
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 A function is implemented in a neader file (except for template functions).
 A Makefile compiles without the required flags and/or another compiler than c++.

C++98.

eating is suspected, the

Any of these means that you must flag the project with "Forbidde

⊗ Yes

There is a Makefile that compiles using the appropriate flags

The Fixed class (or whatever its na the raw value: - int getRawBits( void ) const;

Canonical

class

<< operator

A canonical class must pro - A default constructor - A destructor - A copy constructor An copy assignment operator

Are these elements present and function

void setRawBits( nt const raw ); Are these member functions present and function

There is a Makefile that compiles using the appropriate flags. ⊗ Yes

⊗ Yes

erload and is it function

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

A member function \"float toFloat( void ) const;\" that converts the fixed-point value to a float value must be present. Is it functional?

Is it possible to construct an instance from an integer value?

Ex02: Now we are talking This exercise add comparison and arithmetic features to the class.

There is a Makefile that compiles using the appropriate flags.  $\varnothing$  Yes

Are the six comparison operators (>, <, >=, <=, == and !=) imple

Are the six arithmetic operators (+, -,  $\star$  and /) implem

Static member functions overloads

Last but not least, test the the min() and max() static member functions are implemented and working properly.

There is a class Point which has two attributes (x and y) of type Fixed const. It also has a constructor that takes two floats and initialize x and y with those values.

There is at least a main to test that the function bsp() works as required. Run several test to make sure that the return value is correct. ⊘ Yes

There is a function bsp{| which prototype is "bool bsp{ Point const a, Point const b, Point const point|". The function returns True if the point is inside of the triangle described by the vertices a, b, and c

Other operators

ble to construct an in

Fixed-point value to integer value

Fixed-point value to floating point value

Ex00: My First Class in Orthodox Canonical Form

Ex01: Towards a more useful fixed-point number

Ex00 was a good start, but our class is still pretty useless since it is only able to represent the fixed-point value 0.0.

nce from a floating-point value?

Function\*:

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

- Use of a function not allowed in the exercise guidel

- Use of "using namespace" or the "friend" keyword.

- Use of an external library, or features from versions

There is a Makefile that compiles using the appropriate flags ⊗ Yes Class Point

Function bsp

It returns False otherwise.

Ex03: BSP