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

You should evaluate 1 student in this team

★

Git repository

git@vogsphere.42urduliz.com:vogsphere/intra-uuid-22b8fac4-416a-4c2a-⧈ 📋

Introduction

- 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 were 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, except for cheating, you are
encouraged to continue to discuss your work (even if you have not
finished it) 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 defense, 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 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.

Disclaimer

Please respect 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 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

You must compile with clang++, with -Wall -Wextra -Werror
As a reminder, this project is in C++98
C++11 (and later) member 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 (except in a template)
- A Makefile compiles without flags and/or with something other than clang++

Any of these means that you must flag the project as Forbidden Function:
- Use of a "C" function (*alloc, *printf, free)
- Use of a function not allowed in the subject
- Use of "using namespace" or "friend"
- Use of an external library, or C++20 features

Attachments

⌷ subject.pdf (https://cdn.intra.42.fr/pdf/pdf/27285/en.subject.pdf)

⌷ main.cpp (/uploads/document/document/4406/main.cpp)

Exercise 00: A few functions

In this exercise, the student must write 3 simple function templates: swap, min and max.

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 such as:
class Awesome
{
public:
Awesome(void) : _n(0) { }
Awesome(int n) : _n(n) { }
Awesome & operator= (Awesome & a) { _n = a._n; return *this; }
bool operator==(Awesome const & rhs) const { return (this->_n == rhs._n); }
bool operator!=(Awesome const & rhs) const{ return (this->_n != rhs._n); }
bool operator>(Awesome const & rhs) const { return (this->_n > rhs._n); }

```
bool operator<( Awesome const & rhs ) const { return (this->_n < rhs._n); }
bool operator>=( Awesome const & rhs ) const { return (this->_n >= rhs._n); }
bool operator<=( Awesome const & rhs ) const { return (this->_n <= rhs._n); }
int get_n() const { return _n; }
private:
int _n;
};
std::ostream & operator<<(std::ostream & o, const Awesome &a) { o << a.get_n(); return o; }

int main(void)
{
Awesome a(2), b(4);

swap(a, b);
std::cout << a << " " << b << std::endl;
std::cout << max(a, b) << std::endl;
std::cout << min(a, b) << std::endl;
return (0);
}
?
```

✓ Yes   ✗ No

Exercise 01: Iter

This exercise aims to write a generic iteration function through arrays.

Does it work???

Test the following code with the student's iter:

```
class Awesome
{
public:
Awesome( void ) : _n( 42 ) { return; }
int get( void ) const { return this->_n; }
private:
int _n;
};
std::ostream & operator<<( std::ostream & o, Awesome const & rhs ) { o << rhs.get(); return o; }
template< typename T >
void print( T const & x ) { std::cout << x << std::endl; return; }
int main() {
int tab[] = { 0, 1, 2, 3, 4 }; // <--- I never understood why you can't write int[] tab. Wouldn't that make more sense?
Awesome tab2[5];

iter( tab, 5, print );
iter( tab2, 5, print );

return 0;
}
```

If everything went well, it should display:

```
0
1
2
3
4
42
42
42
42
```

42

⬲ Yes   ✕ No

Exercise 02: Array

In this exercise, the student must write a class template that behaves like an array. If the inner allocation of the actual array does not come from a use of new[], don't grade this exercise. Ask the student to prove the class template works with arrays of simple and complex types before grading.

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 just for reading if the instance is const). Access to an element out of
the limits must throw an std::exception.

⬲ Yes   ✕ No

Ratings

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

✔ Ok   ★ Outstanding project

📓 Empty work   💬 No author file   👾 Invalid compilation   🎵 Norme   🖥 Cheat   ♟ Crash   💧 Leaks

🚫 Forbidden function

Conclusion

Leave a comment on this evaluation

Todo muy bien hecho y
explicado!!!!

Finish evaluation

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