Cadam

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Scale for project Piscine CPP (/projects/piscine-cpp) / D07 (/projects/piscine-cpp-d07 You should correct 1 student in this team



Git repository

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Introduction

The subject of this project is rather vague and leaves a lot to the user's choice. This is INTENDED. The questions in this grac however, are very focused and concentrate on what we think is the core of each exercise, what we want you to grasp. So w you to do the same: You can and should tolerate moderate deviations in filenames, function names, etc ... as long as the expansion basically works as intended. Of course, in case the student you are grading really strayed too far, you should not grade the question at all. We leave it to your good judgement to determine what constitutes "straying too far".

Guidelines

You must compile with clang++, with -Wall -Wextra -Werror

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++
- A class is not in Coplien's form

Any of these means that you must flag the project as Cheat:

- Use of a "C" function (*alloc, *printf, free)
- Use of a function not allowed in the subject
- Use of "using namespace" or "friend" (Unless explictly allowed in the subject)
- Use of an external library, or C++11 features (Unless explictly allowed in the subject)
- Use of "C" legacy cast

Ratings

Define the type of error (if there is an error), which ended the correction.

✓ Ok

Empty work

Incomplete work

No author file

Invalid compilation

Norme

Cheat

Attachments

Subject (https://cdn.intra.42.fr/pdf/pdf/128/d07.en.pdf)

Sections

Exercice 00: A few functions

In this exercice, 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.

 \times No ✓ Yes Complex types Do the functions also work with complex types such as: class Awesome { public: Awesome(int n):_n(n){} bool operator==(Awesome const & rhs) { return (this->_n == rhs._n); } bool operator!=(Awesome const & rhs) { return (this-> n!= rhs. n); } bool operator>(Awesome const & rhs) { return (this->_n > rhs._n); } bool operator<(Awesome const & rhs) { return (this->_n < rhs._n); } bool operator>=(Awesome const & rhs) { return (this-> n >= rhs. n); } bool operator<=(Awesome const & rhs) { return (this->_n <= rhs._n); } private: int _n; **}**; ?

Exercice 01: Iter

The aim of this exercice is to write a generic iteration function through arrays.

✓ Yes

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() {</pre>
```

int tab[] = { 0, 1, 2, 3, 4 }; // <--- J'ai jamais compris pourquoi on peut pas ecrire int[] tab. Ca aurait plus de sens vous trouvez pa

 \times No

X No	
X No	
X No	
×No	
e operator[] (or just for reading if the instance is const). Acco	
X No	
size ?	
proove her/his work with arrays of simple and complex typ	
naves like an array. If the inner allocation of the actual array	
×No	
y:	
)	