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 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.

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 and C++20 members 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"

As usual, there has to be the main function that contains enough tests to prove the program works as required. If

- Use of an external library, or C++20 features

Attachments

2 subject.pdf (https://cdn.intra.42.fr/pdf/pdf/26606/en.subject.pdf)

ex00

there isn't, do not grade this exercise. If any non-interface class is not in orthodox canonical class form, do not grade this exercise.		
Thorough testing		
Animal class is present and has one attribute: One string called type. You must be able to instantiate and use this class.		
2 Yes	2 No	
inheritants		
They are at least two classes that inherit from animal.		
Cat and Dog. The constructor and destructor outputs must have clear outputs.		
Ask the student about constructor and destructor orders.		
	2 No	
Easy subclass		
The attribute type is set to the good value at init for every animal. Cat must use "Cat" and Dog must use "Dog".		
2 Yes	2 No	
Animal		
Using makeSound() function always called the appropriate makeSound makeSound() should be virtual! Look the code.	I() function	
virtual void makeSound() const return value is		
not important but virtual is mandatory.		
there should be an example with a WrongAnimal and WrongCat that d	oesn't use virtual.	

The WrongCat must output the WrongCat makeSound() only when used as a wrongCat.

? Yes

? No

ex01

As usual, there has to be a main function that contains enough tests to prove the program works as required. If there isn't, do not grade this exercise. If any non-interface class is not in orthodox canonical class form, do not grade this exercise.

Concrete Animal

There is a new class called Brain.

Cat and Dog have the required private Brain attribute.

The brain attribute should not be in Animal class.

The brain class has specific output upon creation and deletion.

2 Yes

Concrete Brain

The copy operation of Cat and Dog should create a deep copy.

test something like:

Dog basic;
{
Dog tmp = basic
}

if the copy is not deep tmp and basic will use the same Brain.

And tmp will delete the Brain at the end of the scope.

the copy constructor should do a deep copy too.

That's why a clean implementation of orthodox canonical form will save you hours of pain.

2 Yes 2 No

Destructor chaining

The destructors in Animal and its derived classes are virtual.

Ask an explanation of what will happens without virtual.

Test it.

2 Yes 2 No

ex02

As usual, there has to be a main function that contains enough tests to prove the program works as required. If there isn't, do not grade this exercise. If any non-interface class is not in orthodox canonical class form, do not grade this exercise.

Abstract

The Animal class is present and is exactly like

the one in the subject.

The Animal::makeSound function is pure virtual.

something like : virtual void makeSound() const = 0;

the = 0 part is mandatory.

You should not be able to instantiate an animal.

Animal test; //should give you a compile error about the class being abstract.

2 Yes		No No	
Concrete Animal Class Cat and Dog are still present	and work exactly like in ex02.		
☑ Yes	,	☑ No	
Assignment and copy			
The copy and assignation behavior. That means deep copy, you need to Check that te canonical form is recoperators) nothing should be put Overall this code is very simple so	to create a new Brain for the I ally implemented (IE. no empt blic without reason.	Dog or cat.	

ex03

As usual, there has to be a main function that contains enough tests to prove the program works as required. If there isn't, do not grade this exercise. If any non-interface class is not in canonical form, do not grade this exercise.

? No

Interfaces

The ICharacter and IMateriaSource interfaces are present and are exactly like in the subject.

? Yes

Yes

? No

Source

The MateriaSource class is present and implements IMateriaSource. The member functions work as intended.

2 Yes

② No

Concrete materio						
		nat inherit from AMateria Th	eir			
		Their outputs are correct.				
	ill abstract (clone is pu	re).				
virtual ~AMateria()						
AMateria contains	a protected string attrib	oute to store the type.				
	⊗ Yes		×	No		
Character						
The Character class an inventory of 4 m	s is present and implem naterias.	ents ICharacter. It has				
he member functio	ns are implemented as	the subject requires.				
he copy and assig	nation of a Character	are implemented as require	d => deep copy			
			×	, No		
	· 163		, ,	INO		
Ratings	ck the flag correspondi	to the defense				
Jon't forger to chec		ng to the detense				
✓ Ok			★ Outstanding project			
Empty work	No author file	nvalid compilation	₽ Norme	🖷 Cheat	🕏 Crash	
	♦ Leaks		O Forbidde	n function		
^ .l'						
Conclusi	on					
eave a comment o	n this evaluation					

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