prochell

(https://profile.intra.42.fr)

SCALE FOR PROJECT CPP MODULE 04 (/PROJECTS/CPP-MODULE-04)

You should evaluate 1 student in this team



Git repository

git@vogsphere.kzn.21-school.ru:vogsphere/intra-uuid-6e89d0b0-39a9-47



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 before starting the defense.
- Use the flags available on this scale to signal an empty repository, non-functioning program, 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 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"
- Use of an external library, or C++20 features

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subject.pdf (https://cdn.intra.42.fr/pdf/pdf/35344/en.subject.pdf)

ex00

As usual, there has to be the 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.

Thorough testing

Animal class is present and has one attribute:

One string called type.

You must be able to instantiate and use this class.

 \times_{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.

 ${\it extstyle arphi}$ Yes

 $imes_{
m No}$

Easy subclass

The attribute type is set to the good value at init for every animal.

♂ Yes	×No
Animal	
Using makeSound() function always called the appropriate makeSound() funct makeSound() should be virtual! Look the code. virtual void makeSound() const	ion
return value is not important but virtual is mandatory.	
there should be an example with a WrongAnimal and WrongCat that doesn't u The WrongCat must output the WrongCat makeSound() only when used as a w	
⊗ Yes	$ imes_{No}$
ex01	
As usual, there has to be a main function that contains enough tests to prove the grade this exercise. If any non-interface class is not in orthodox canonical class	
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.	
⊘ Yes	$ imes_{No}$
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.	
And mip will delete me brain at me end of me scope.	
the copy constructor should do a deep copy too.	ours of pain.
the copy constructor should do a deep copy too.	ours of pain.
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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 c	lass being abstract.
⊘ Yes	$ imes_{No}$
Concrete Animal	
Class Cat and Dog are still present and work exactly like in	ex02.
⊘ Yes	imesNo
Assignment and copy	
The copy and assignation behaviors of the Cat and Dog are	e like the subject required.
That means deep copy, you need to create a new Brain for	
Check that te canonical form is really implemented (IE. no e	empty copy operators)
nothing should be public without reason.	
Overall this code is very simple so it needs to be clean!	
⊗ Yes	\times No
ex03	
	ugh tests to prove the program works as required. If there isn't, do not
As usual, there has to be a main function that contains enougrade this exercise. If any non-interface class is not in cano	
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