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

Remember that the quality of the defenses, hence the quality of the of the school on the labor market depends on you. The remote defences during the Covid crisis allows more flexibility so you can progress into your curriculum, but also brings more risks of cheat, injustice, laziness, that will harm everyone's skills development. We do count on your maturity and wisdom during these remote defenses for the benefits of the entire community.

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

You should evaluate 1 student in this team



Git repository

git@vogsphere-v2.42.fr:vogsphere/intra-uuid-922054f4-1687-4



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, with the exception of cheating, you are

encouraged to continue to discuss your work (even if you have not finished it) in order 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 defence, 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

subject.pdf (https://cdn.intra.42.fr/pdf/pdf/15271/en.subject.pdf)					
ex00					
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 Coplien's form, do not grade this exercise.					
Thorough testing					
There are tests in the main with derived classes other than Peon, and everything works well with them.					
	×No				
I want sheeps!					
The Victim can getPolymorphed() const, with the correct output. The Sorcerer can polymorph(Victim const &) const.					
	imesNo				
Destructor chaining					
The destructors in Victim and derived are virtual.					
	imesNo				
Easy subclass					
There is a Peon class that inherits publicly from Victim. It has the correct outputs.					
	imesNo				
Victim					
There is a Victim class. It has a name. The required outputs					
on construction and destruction are present. The required overload of operator << to ostream is present and works correctly					
	XNo				

Attachments

Sorcerer

There is a Sorcerer class. It has a name and a title. It has a constructor with name and title.

It cannot be instanciated without parameters.

That means either the default constructor must be private, or it must be declared but non-implemented, to comply with Coplien's form.

The required outputs on construction and destruction are present.

The required overload of operator << to ostream is present and works correctly.

✓ Yes

 \times 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 Coplien's form, do not grade this exercise.

Concrete enemies

There are concrete SuperMutant and RadScorpion enemies (That inherit from Enemy, obviously)

They have the required attributes.

The SuperMutant

has the required overload of takeDamage() and it works as required.

✓ Yes

 \times No

Character

There is a Character class. It has the attributes required by the subject: name, AP, pointer to AWeapon.

It has the required AP behavior: 40 on start, it looses X AP on attack depending on the weapon, and recovers 10 AP with recoverAP up to a maximum of 40. attack(...) fails if there aren't enough AP.

✓ Yes

 \times No

Concrete weapons

There are concrete PlasmaRifle and PowerFirst weapons. (So, they inherit from AWeapon)
They have the attributes and attack() outputs specified by the subject.

	⊘ Yes	×No	
Utility and output			
The equip() and attack(works as required.) functions work as required. The << overload		
		×No	
Destructor chaining	2		
The destructors in AWed	apon and its derived classes are virtual.		
	⊗ Yes	×No	
Thorough testing			
There are tests in the mo	ain with more derived weapons and more derived e	enemies. "	
		imesNo	
Destructor chaining	AGAIN		
The destructors in Enem	y and its derived classes are virtual.		
	∀ Yes	×No	
Enemy			
subject: type, number o			
	e implemented coherently. k in takeDamage to prevent going under 0 HP.		
	✓ Yes	×No	
Weapon			
·	class. It is abstract (attack() must be a		
pure virtual function). It has the attributes read	uired by the subject : name,		
damage, AP cost.	silve and the state of the stat		
	e implemented coherently		
	∀ Yes	×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 Coplien's form, do not grade this exercise.

Interfaces

The ISquad and ISpaceMarine interfaces are present and are exactly like the ones in the subject.

✓ Yes

 \times No

Concrete squad

The Squad class is present and inherits from ISquad Its member functions work as required.

Its destructor destroys the contained units.

✓ Yes

 \times No

Concrete units

The TacticalMarine and AssaultTerminator classes are present and inherit from ISpaceMarine.

Their member functions work as required.

 \times_{No}

Assignment and copy

The copy and assignation behaviours of the Squad are as the subject required. That means deep copy, and upon assignation, exiting units must be destroyed before they are replaced.

✓ Yes

 \times No

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 Coplien's form, do not grade this exercise.

Interfaces

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

✓ Yes	×No
✓ Yes	×No
	imesNo
aterias.	
	×No
	imesNo
сору	
·	
∀ Yes	ΧNο
	ce and Cure classes that inherit from AMateria Their prectly implemented. Their outputs are correct.

isn't, do not grade this exercise. If any non-interface class is not in Coplien's form, do not grade this exercise.

Basics

	MiningLaser interfaces ngLasers are implement	•			
	✓ Yes		>	Ńο.	
DD's patcher!					
here should be a beand the mine() method which would disput asteroid (subtype passically the double Now the clever bit: uses typeid, dynamicalect the output, Medical parts.	eMined(StripMiner *) nod should call beMine ch the call to a method olymorphism) and the t e-dispatcher design pa if the student tries to po ic_cast, the names of the	ne lasers/asteroids, etc. to DJECT AS CHEAT and leav	eMiner*), eter, of the olymorphism).		
			>	⟨No	
Ratings					
Don't forget to ched	k the flag correspondi	ng to the defense			
	✓ Ok		★ Outstandir	ng project	
Empty work	No author file	nvalid compilation	₿ Norme	🖷 Cheat	🛣 Crash
	▲ Leaks	⊘ Forbidden function			
Conclusi Leave a comment o					

terms or use for viaeo surveillance (mips://signin.inira.4z.fr/legal/lerms/1)