	Izins	(https://projects.intra.42.fr/scale_teams/3241693/edit#)

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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 (HTTPS://PROJECTS.INTRA.42.FR/PROJECTS/CPP-MODULE-04)

You should evaluate 1 student in this team

Git repository

git@vogsphere-v2.42lyon.fr:vogsphere/intra-uuid-3228cad8-f4a1-4b8a-bf [

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

Attachments

□ subject.pdf (https://cdn.intra.42.fr/pdf/pdf/21424/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.

□ Yes □ No

I want sheeps!

The Victim can getPolymorphed() const, with the correct output. The Sorcerer can polymorph(Victim const &) const.

	□ Yes	□ No
Destructor chaining		
The destructors in Victim	and derived are virtual.	
	□ Yes	□No
	□ les	LINO
Easy subclass		
There is a Peon class that the correct outputs.	it inherits publicly from Victim. It has	
	□ Yes	□ No
Victim		
on construction and dest	t has a name. The required outputs truction are present. If operator << to ostream is present a	nd works
	□ Yes	□ No
Sorcerer		
	construction and destruction are pres f operator << to ostream is present a Yes	
	-	gh tests to prove the program works as required. If ass is not in Coplien's form, do not grade this
Concrete enemies		
from Enemy, obviously) They have the required of The SuperMutant	erMutant and RadScorpion enemies (7 attributes. ad of takeDamage() and it works as r	
	□ Yes	□No
Character		
the subject: name, AP, p	ehavior: 40 on start, it looses X AP or	n attack

with recoverAP up to a maximum of 40. attack() fails if there aren't enough AP.	
□ Yes	□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() functions work as required. The << overload works as required.	
□ Yes	□No
Destructor chaining 2	
The destructors in AWeapon and its derived classes are virtual.	
□ Yes	□No
Thorough testing	
There are tests in the main with more derived weapons and more derived	enemies.
□ Yes	□No
Destructor chaining AGAIN	
The destructors in Enemy and its derived classes are virtual.	
□ Yes	□No
Enemy	
There is an Enemy class. It has the attributes required by the subject: type, number of HP Its member functions are implemented coherently. It has the required check in takeDamage to prevent going under 0 HP.	
□ Yes	□No
Weapon	
There is an AWeapon class. It is abstract (attack() must be a pure virtual function). It has the attributes required by the subject : name, damage, AP cost. Its member functions are implemented coherently	
□ Yes	□No

ex	O	2
$oldsymbol{-}$	v	

	a main function that contains enough tests to prove the his exercise. If any non-interface class is not in Coplie	
Interfaces		
The ISquad and ISpaceM the ones in the subject.	arine interfaces are present and are exactly like	
	□Yes	□No
Concrete squad		
The Squad class is presen functions work as required lts destructor destroys the		
	□Yes	□No
Concrete units		
The TacticalMarine and A from ISpaceMarine. Their member functions w	ssaultTerminator classes are present and inherit	
	□Yes	□No
Assignment and copy		
	behaviours of the Squad are as the subject required. nd upon assignation, exiting units must be e replaced.	
	□ Yes	□No
	a main function that contains enough tests to prove the	
Interfaces		
The ICharacter and IMate exactly like in the subject.	riaSource interfaces are present and are	
	□Yes	□No
Source		
The MateriaSource class i member functions work as	s present and implements IMateriaSource. The sintended.	
	□ Yes	□No

Concrete materia		
	and Cure classes that inherit from AMateria Their	
	ctly implemented. Their outputs are correct.	
	□Yes	□No
Character		
an inventory of 4 mater	resent and implements ICharacter. It has ias. re implemented as the subject requires.	
	□Yes	□No
Materia base		
	ass. It has a type. It's abstract (clone is pure). nented as the subject requires.	
	□Yes	□No
Assignation and cop) y	
The copy and assignation	on of a Character are implemented as required (= ike the previous exercise).	
	□Yes	□No
there isn't, do not grade exercise. Basics	ne a main function that contains enough tests to prove this exercise. If any non-interface class is not in Co ngLaser interfaces are present. Concrete	
Asteroids and MiningLa	· ·	
	□Yes	□ No
DD's patcher!		
The mine/beMined disp there should be a beMi and the mine() method which would dispatch th asteroid (subtype polym Basically the double-dis Now the clever bit: if th uses typeid, dynamic_ca select the output, MARK	patch mechanism works as required. In theory, ned(StripMiner *) and a beMined(DeepCoreMiner * should call beMined passing "this" as parameter, ne call to a method that depends on the type of the norphism) and the type of the laser (adhoc polymorp patcher design pattern, just a bit dumber. e student tries to pass off a technique that ast, the names of the lasers/asteroids, etc. to CTHE WHOLE PROJECT AS CHEAT and leave it at the forbidden by the subject.	ohism).
	□Yes	□No

uthor file W Invalid compi		orme □ Chec	at d Crash
	l Fo	rbidden function	
uluation			
_	aluation	aluation	aluation

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