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SCALE FOR PROJECT PISCINE CPP (/PROJECTS/PISCINE-CPP) / DAY 03 (/PROJECTS/42-PISCINE-C-**FORMATION-PISCINE-CPP-DAY-03)**

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 grading scale, however, are very focused and concentrate on what we think is the core of each exercise, what we want you to grasp. So we would like you to do the same: You can and should tolerate moderate deviations in filenames, function names, etc ... as long as the exercise basically works as intended. Of course, in case the student you are grading really strayed too far, you should not grade the exercise in question at all. We leave it to your good judgement to determine what constitutes "straying too far".

The usual obvious rules apply: Only grade what's on the git repository of the student, don't be a dick, and basically be the grader you would like to have grading you.

Do NOT stop grading when an exercise is wrong.

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)

Attachments

Subject (/uploads/document/document/1039/d03.en.pdf)

Class and attributes	
There is a FragTrap class present.	
It has all the required attributes.	
Its attributes are initialized to the required values.	
∀Yes	\times No
Member functions	
The following member functions are present and work as specified	:
- rangedAttack	
- meleeAttack	
- takeDamage - beRepaired	
Also, the constraints about the HP limits and the armor reduction m	ust be
taken into account.	
✓ Yes	imesNo
Special attack	
There is a vaulthunter_dot_exe function that works as specified by the subject.	
∀Yes	imesNo
It's called style, look it up.	
How elegant do you think the method used to determine the attack	c in

	Rate it from 0 (failed) through 5 (excell	lent)
ex01		
As usual, there has to be a main function the grade this exercise.	at contains enough tests to prove the pro	gram works as required. If there isn't, do not
Class and attributes		
There is a ScavTrap class present.		
It has all the required attributes.		
Its attributes are initialized to the required v	alues.	
⊗ Yes		imesNo
Member functions		
The following member functions are presen	and work as specified:	
- rangedAttack		
- meleeAttack		
- takeDamage		
- beRepaired	al les el	
Also, the constraints about the HP limits and taken into account.	the armor reduction must be	
The outputs of the constructor, destructor, re	naedAttack and meleeAttack	
must be different from the ones in the previous	_	
⊗́ Yes		imesNo
Wow, what a t-t-terrific audience!		
How funny are the output messages ?		

Special features

There is a challengeNewcomer function that works as specified by the subject.



 \times 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.

Parent class

There is a ClapTrap class present, and both ScavTrap and FragTrap inherit publicly from it.

All the functions and attributes that were shared between both ScavTrap and FragTrap are now in ClapTrap, namely:

- Hit points
- Max hit points
- Energy points
- Max energy points
- Level
- Name
- Melee damage
- Ranged damage
- Armor damage reduction
- takeDamage
- beRepaired

rangedAttack and meleeAttack can either be in the ClapTrap class and use an attribute to have a different output depending on the child class, or remain in the child classes. Whatever.

The attributes specific to each class (vaulthunter_dot_exe, challengeNewcomer, and whatever the student created to help with these) must of course remain where they are.



 \times No

	reate a FragTrap it must first display the , and if you delete it, it must display the rap's.\r\nThe tests have to show that."	
	⊗ Yes	×N₀
ex03		
As usual, there has to be a m grade this exercise.	nain function that contains enough tests	to prove the program works as required. If there isn't, do not
But once, he break out o	f his cage, and he "get this"! Very	y nice.
The ninjaShoebox function he f it's different for each ClapT	as to do something funny ! Even better rap type	
	Rate it from 0 (failed)	through 5 (excellent)
Special attack		
	ction that is present multiple times in ClapTrap concrete type that can be tal agTrap and NinjaTrap).	cen as parameter
		imesNo
Subclass		
	esent.\r\nlt inherits from ClapTrap, r appropriate values.	
There is a NinjaTrap class pro and sets the attributes to thei		×N₀
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Ultimate shoebox			
There is a SuperTrap class po It inherits from both the Frag It sets the attributes to the ap It uses virtual inheritance to a	Trap and the NinjaTrap.	tance.	
	⊗ Yes		imesNo
Choose wisely			
The SuperTrap uses the rang of the NinjaTrap. It has the special attacks of I	edAttack of the FragTrap and the mooth its parents.	neleeAttack	
			×No
•	a corresponding to the defense		
•	g corresponding to the defense	/ Ok	
•		∕ Ok ∮ No author file	♠ Invalid compilation
_	•		Invalid compilationForbidden function
Don't forget to check the fla	■ Incomplete work	No author file	
Don't forget to check the fla	▲ Incomplete work	No author file	

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