

You should evaluate 1 student in this team

CPP Module 02

Please follow the rules below:

Introduction

- Identify with the student or group whose work is being evaluated the possible dysfunctions in their project. Take the time to discuss and debate the problems that may have been identified.

- You must consider that there might be some differences in how your peers might have understood the project's instructions and the scope of its functionalities. Always keep an open mind and grade them as honestly as possible. The pedagogy is useful only if the peer-evaluation is done seriously.

Remain polite, courteous, respectful, and constructive throughout the evaluation process. The well-being of the community depends on it.

Only grade the work that was turned in to the Git repository of the evaluated student or group.

Guidelines

- Double-check that the Git repository belongs to the student(s). Ensure that the project is the one expected. Also, check that 'git clone' is used in an empty folder.

Please follow the guidelines below:

✓ - Check carefully that no malicious aliases were used to fool you into evaluating something that is not the content of the official repository.

- To avoid any surprises and if applicable, review together any scripts used to facilitate the grading (scripts for testing or automation). - If you have not completed the assignment you are going to evaluate, you must read the entire subject prior to starting the evaluation process.

- Use the available flags to report an empty repository, a non-functioning program, a Norm error, cheating, and so forth. In these cases, the evaluation process ends and the final grade is 0, or -42 in the case of cheating. However, except for cheating, students are strongly encouraged to review together the work that was turned in, in order to identify any mistakes that shouldn't be repeated in the future.

- Remember that for the duration of the defense, no segfaults or other unexpected, premature, or uncontrolled terminations of the program will be tolerated, 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 explain the reasons with the evaluated student and make sure both of you are okay with this.

appropriate flag.

Attachments Please download the attachments below:

Mandatory Part

subject.pdf

Exercise 04

Exercise 04

✓ The program must read from the file using an ifstream or equivalent, and write using an ofstream or equivalent.

This is not C anymore!

Yes

HI THIS IS BRAIN

The variable content is displayed using the stringPTR and the stringREF.

✓ The code must compile with c++ and the flags -Wall -Wextra -Werror

On't forget this project has to follow the C++98 standard. Thus,

Any of these means you must not grade the exercise in question:

Use of a function not allowed in the exercise guidelines.

Use of a "C" function (*alloc, *printf, free).

There is a function replace (or other name) that works as specified in the subject.

HI THIS IS BRAIN

There is a string containing "HI THIS IS BRAIN".

✓ - If you can find an error that isn't handled, and isn't completely esoteric, no points for this exercise.

 - stringPTR is a pointer to the string. - stringREF is a reference to the string. The address of the string is displayed using the string variable, the

No Yes

- stringPTR and the stringREF.

✓ Function":

caution.

Prerequisites

 - A function is implemented in a header file (except for template functions). A Makefile compiles without the required flags and/or another compiler than c++. Any of these means that you must flag the project with "Forbidden"

 Use of an external library, or features from versions other than C++98. Yes

Use of "using namespace <ns_name>" or the "friend" keyword.

Zombie Class Zombie Class

✓ - It has a member function announce(void) that prints: "<name>: BraiiiiiinnnzzzZ..."

The destructor prints a debug message that includes the name of the zombie.

The getType() function returns a const reference to the type string.

Yes No

There is a Zombie Class.

It has a private name attribute.

It has at least a constructor.

Weapon There is a Weapon class that has a type string, a getType() and a setType().

Yes

Exercise 05: Harl 2.0

Makefile and tests

Yes

Makefile and tests

Yes

No

The goal of this exercise is to understand how to allocate memory in C++.

There is a Makefile that compiles using the appropriate flags.

There is at least a main to test the exercise.

There are tests to prove everything works.

The zombie is deleted correctly before the end of the program.

Exercise 00: BraiiiiiinnnzzzZ

Weapon

 There is a Makefile that compiles using the appropriate flags. There is at least a main to test the exercise.

 There is a Makefile that compiles using the appropriate flags. There is at least a main to test the exercise.

The goal of this exercise is to use pointers to class member functions. Also, this is the opportunity to discover the different log levels.

Demystify references! Demystify references! Demystify references! Demystify references! Demystify references! Demystify references! references! Demystify references! Demystify references! Demystify references! Demystify references! Makefile and tests

Yes

newZombie

Yes

Our beloved Harl

Our beloved Harl

Exercise 02: HI THIS IS BRAIN

newZombie There is a newZombie() function prototyped as: [Zombie* newZombie(std::string name);] It should allocate a Zombie on the heap and return it.

 There is a class Harl with at least the 5 functions required in the subject. The function complain() executes the other functions using a pointer to them. - Ideally, the student should have implemented a way of matching the different strings corresponding to the log level to the pointers of the corresponding member function.

Yes

The Zombie Class has a default constructor.

Like: calling announce() on all the zombies.

Exercise 04: Sed is for losers

Last, all the zombies should be deleted at the same time in the main.

Thanks to this exercise, the student should have gotten familiar with ifstream and ofstream.

- There is a randomChump() function prototyped as: [void randomChump(std::string name);]

It should create a Zombie on the stack, and make it announce itself.

 It allocates N zombies on the heap explicitly using new[]. After the allocation, there is an initialization of the objects to set their name. It returns a pointer to the first zombie. There are enough tests in the main to prove the previous points.

Yes

zombieHorde

zombieHorde

 There is a Makefile that compiles using the appropriate flags. There is at least a main to test the exercise. Yes

randomChump

explicitly deleted.

Yes

Yes

Exercise 06: Harl filter

the switch statement.

Makefile and tests

Yes

Makefile and tests

HumanA and HumanB

The student must justify their choices.

There are tests to prove everything works.

randomChump

Makefile and tests

Exercise 01: Moar brainz! The goal of this exercise is to allocate a number of objects at the same time using new[], initialize them, and to properly delete them. Makefile and tests

Exercise 03: Unnecessary violence

depending on the use and the lifecycle of the object used.

There is a Makefile that compiles using the appropriate flags.

- HumanA can have a reference or a pointer to the Weapon.

from creation until destruction, and never changes.

Ideally, it should be implemented as a reference, since the Weapon exists

- HumanB must have a pointer to a Weapon since the field is not set at

No

There is at least a main to test the exercise.

There is a Makefile that compiles using the appropriate flags.

creation time, and the weapon can be NULL. Yes No

Yes

Switching Harl Off

Bonus Part

Yes

Ratings

 OK Cheat

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Empty Work

Concerning Situations

Incomplete Work

Leaks

✓ - 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 The error management is efficient: try to pass a file that does not exist, change the permissions, pass it empty, etc. ✓ - The implementation of the function should be done using functions from std::string, no by reading the string character by character. If cheating is suspected, the evaluation stops here. Use the "Cheat" flag to report it. Take this decision calmly, wisely, and please, use this button with

 Ideally, it should call the constructor that takes a string and initializes the name. ✓ The exercise should be marked as correct if the Zombie can announce itself with the name passed to the function.

✓ - If the implementation is different but the exercise works, you should mark it as valid. The only thing that is not allowed is using a ugly if/elseif/else. ✓ The student could have chosen to change the message Harl displays or to display the examples given in the subject, both are valid. There is a zombieHorde() function prototyped as: [Zombie* zombieHorde(int N, std::string name);]

 There is a Makefile that compiles using the appropriate flags. There is at least a main to test the exercise. Now that you are experienced coders, you should use new instruction types, statements, loops, etc. The goal of this last exercise is to make you discover

- Ideally the zombie should be allocated on the stack (so implicitly deleted at the end of the function). It can also be allocated on the heap and then

 There is at least a main to test the exercise. Yes **HumanA and HumanB**

The objective of this exercise is to understand that pointers and references present some small differences that make them less or more appropriate

Switching Harl Off - The program harlFilter takes as argument any of the log levels ("DEBUG", "INFO", "WARNING" or "ERROR"). It should then display just the messages that are at the same level or above (DEBUG < INFO < WARNING < ERROR). This must be implemented using a switch statement with a default case. Once again, no if/elseif/else anymore please.

No

no bonus no bonus on bonus No

☆ Outstanding Cannot Support/Explain code

Nalid Compilation

Forbidden Functions