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## Scale for project Piscine CPP (/projects/piscine-cpp) / D01 (/projects/piscine-cpp-d01)

You should correct 1 student in this team



### Git repository

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## 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 grade however, are very focused and concentrate on what we think is the core of each exercise, what we want you to grasp. So we want 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 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 person 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++

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 explicitly allowed in the subject)
- Use of an external library, or C++11 features (Unless explicitly allowed in the subject)

## Ratings

Define the type of error (if there is an error), which ended the correction.

☒ Ok
 ☐ Empty work
 ☐ Incomplete work
 ☐ No author file
 ☐ Invalid compilation
 ☐ Norme
 ☐ Cheat

## Attachments

<https://cdn.intrav2.42.fr/pdf/pdf/51/6246ab590b54c4ed58054a04160a2a6f-d01.en.pdf>  
 (https://cdn.intrav2.42.fr/pdf/pdf/51/6246ab590b54c4ed58054a04160a2a6f-d01.en.pdf)

Subject (/uploads/document/document/115/d01.en.pdf)

## Sections

### ex00

As the subject says, this exercise requires the student to turn in a "main" function, and it must, when run, demonstrate that it works as intended (For example, using console output, etc ... The student has to be able to explain how it proves anything). If you MUST NOT grade this part.

#### ex00

There must be a `ponyOnTheHeap` function that allocates a new Pony using "new", then deletes it (Using "delete", obviously). There must be a `ponyOnTheStack` function that allocates a new Pony on the stack (WITHOUT using "new" or "malloc", then.)

✓ Yes

✗ No

### ex01

#### ex01

Theoretically, two choices here are right : Either changing the allocation to be on the stack and not on the heap (So, don't use anymore, and handle a `std::string` without using the pointer), or adding a "delete panthere;" after the `std::cout`. Ask the student to explain WHY he did what he did before marking this as done. He has to answer something other than "Mel works".

✓ Yes

✗ No

### ex02

As the subject says, this exercise requires the student to turn in a "main" function, and it must, when run, demonstrate that it works as intended (For example, using console output, etc ... The student has to be able to explain how it proves anything). If you MUST NOT grade this part.

#### ex02

All the classes and functions required by the subject must exist and work as specified, otherwise, count as wrong. The Zombies must be destroyed when appropriate. In `newZombie`, it should be allocated on the heap, returned, and then `del` main(). The student must explain why. The Zombies created by `randomChump` must either be allocated on the stack (so implicitly deleted at the end of the function), on the heap then explicitly deleted. The student must justify his choice.

✓ Yes

✗ No

### ex03

As the subject says, this exercise requires the student to turn in a "main" function, and it must, when run, demonstrate that it works as intended (For example, using console output, etc ... The student has to be able to explain how it proves anything). If you MUST NOT grade this part.

#### ex03

All the classes and functions required by the subject must exist and work as specified, otherwise, count as wrong. The Zombies must be allocated in the constructor of the `ZombieHorde`, and should be allocated as an array, either on the stack explicitly using `new[]`, in which case they should be deleted in the destructor. The student must explain his choice.

✓ Yes

✗ No

## ex04

### ex04

There is a string containing "HI THIS IS BRAIN", then a pointer to it, then a reference to it, and it is displayed through the pointer through the reference. As the subject says, really, that's it, no tricks or anything.

✓ Yes

✗ No

## ex05

As the subject says, this exercise requires the student to turn in a "main" function, and it must, when run, demonstrate that it works as intended (For example, using console output, etc ... The student has to be able to explain how it proves anything). If you MUST NOT grade this part.

### ex05

All the classes and functions required by the subject must exist and work as specified, otherwise, count as wrong.

The "identify" function in the "Brain" must return the representation of "this", or any other trick that equates to "the address of instance".

The "getBrain" function should return a REFERENCE to the Brain of the current Human. With the main() that the subject provides, the subject says, display two identical addresses.

The student should be able to explain why he did this.

✓ Yes

✗ No

## ex06

As the subject says, this exercise requires the student to turn in a "main" function, and it must, when run, demonstrate that it works as intended (For example, using console output, etc ... The student has to be able to explain how it proves anything). If you MUST NOT grade this part.

### ex06

All the classes and functions required by the subject must exist and work as specified, otherwise, count as wrong.

The student must choose to store the Weapon either as pointer or as a reference in HumanA and HumanB.

In HumanA, BOTH are acceptable if justified, even if theoretically the reference is better, since the Weapon exists from creation and never changes.

In HumanB, only the pointer is acceptable, since the field is not set at creation time, so it can not be a reference.

The student must justify his choices correctly.

✓ Yes

✗ No

## ex07

### ex07

The program must work as the subject specifies.

A reasonable amount of errors must be handled. If you can find an error that isn't handled, and isn't completely esoteric, count it.

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

✓ Yes

✗ No

## ex08

As the subject says, this exercise requires the student to turn in a "main" function, and it must, when run, demonstrate that it works as intended (For example, using console output, etc ... The student has to be able to explain how it proves anything). If you MUST NOT grade this part.

### ex08

All the classes and functions required by the subject must exist and work as specified, otherwise, count as wrong.  
The "action" function must use an array of pointer to member functions to choose which action should be called. Any if/elseif/other crap like this counts as wrong.

☒ Yes☐ No

## ex09

As the subject says, this exercise requires the student to turn in a "main" function, and it must, when run, demonstrate that it works as intended (For example, using console output, etc ... The student has to be able to explain how it proves anything). If you MUST NOT grade this part.

### ex09

All the classes and functions required by the subject must exist and work as specified, otherwise, count as wrong.  
Must work exactly as the subject requires.

As with the previous exercise, the action to take when using "log" must be determined using an array of pointers to member functions.

☒ Yes☐ No

## ex10

### ex10

The program must work as the subject specifies.  
Any error that isn't handled = count as wrong.

☒ Yes☐ No

## Conclusion

**Leave a comment on this correction**

**\* (required) Comment**