Introduction

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
- 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

to facilitate the grading.

- Only grade the work that is in the student or group's GiT repository.

and debate the problems you have identified.

- 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 was 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
- project yet, it is mandatory for this student to read the entire subject before starting the defense. Use the flags available on this scale to signal an empty repository,

- If the evaluating student has not completed that particular

the grading is over and the final grade is 0 (or -42 in case of cheating). However, except for cheating, you are encouraged to continue to discuss your work (even if you have not finished it) 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 defense, no segfault,

non-functioning program, norm error, cheating etc. In these cases,

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.

no other unexpected, premature, uncontrolled or unexpected

termination of the program, else the final grade is 0. Use the

- 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. **Attachments** subject.pdf minilibx_opengl.tgz minilibx_mms_20200219_beta.tgz

Executable name

Mandatory part

command and that the executable name is cub3D. If not, use the invalid compilation flag at the end of the scale.

imes No Configuration file

Check that the project compiles well (without re-link) when you execute the make

Check that you can configure ALL the following elements in the configuration file. The formating has to be as described in the subject.

 \times No

 \times No

 \times No

≤No

 \times No

north texture path - NO

• east texture path - EA • south texture path - SO • west texture path - WE

- floor color F
- ceiling color C
- the map (see subject for the map configuration details) Also, check that the program returns an error and exits properly when
- the configuration file is misconfigured (for example an unknown key, double keys, an invalid path..) or if the filename doesn't end with the .cub extension.
- If not, the defense is over and use the appropriate flag incomplete work, crash...

✓ Yes Technical elements of the display

We're going to evaluate the technical elements of the display. Run the program and execute the following tests. If at least one

It must stay open during the whole execution. An image representing the inside of a maze must be displayed inside the window.

must remain consistent.

Move to the next one.

Movements

· Hide all or part of the window either by using another window or by using the screen's borders, then minimize the windows and maximize it back. In all cases, the content of the window

fails, no points will be awarded for this section. Move to the next one.

A window must open at the launch of the program.

✓ Yes

fails, this means that no points will be awarded for this section.

Click the red cross at the top left of the window. The

window must close and the program must exit cleanly.

User basic events In this section, we're going to evaluate the program's user generated events. Execute the 3 following tests. If at least one

 Press the ESC key. The window must close and the program must exit cleanly. In the case of this test, we will accept that another key exits the program, for example, Q.

Press the four movement keys (we'll accept WASD or ZQSD keys)

visible result on the window, such as a player's movement/rotation.

✓ Yes

in the order of your liking. Each key press must render a

In this section, we'll evaluate the implementation of the player's movement/orientation inside the maze. Execute the 5 following tests. If at least one fails, this means that no points will be awarded for this section. The player's spawning orientation on the first image must be in accordance with the configuration file, test for each cardinal orientation (N, S, E, W).

The player's view must go forward and then backward in a

The player's view must go to the left and then to the right in a

During those four movements, was the display smooth? By

smooth we mean is the game "playable" or is it slow.

The player's view must rotate to the left then to the right as if the player's head was moving.

Press W (or Z) then S.

straight line.

Walls

Press the left arrow then the right arrow.

In this section, we'll evaluate the walls in the maze.

Execute the 4 following tests. If at least one

visible and correct.

straight line. Press A (or Q) then D.

- ✓ Yes
- The wall's texture vary depending on which compass point the wall is facing (north, south, east, west). Check that the textures on the walls and perspective are

fails, this means that no points will be awarded for this section.

it modifies the rendered texture when the program is re-executed. Also check that if you set a non-existent path it raises an error.

Check that if you modify the path of a wall texture in the configuration file,

Error management

Run the program using numerous arguments and random values.

top or leaks command in another shell to monitor that the memory

Even if the program doesn't require any arguments, it is

Check that there are no memory leaks. You can use the

Yes

In this section, we'll evaluate the program's error management

fails, this means that no points will be awarded for this section.

and reliability. Execute the 4 following tests. If at least one

critical that those arguments don't alternate or create unhandled errors.

Check that the floor and ceiling colors are well handled when you modify them in the configuration file.

use is stable. The memory used must not increase each time an action is made. Roll either your arm or your face on the keyboard. The program

Move to the next one.

 Modify the map. The program must not show any strange behaviors and it must stay functional if the map is well configured, if not it must raise an error.

✓ Yes

Look at the subject bonus part and add one point for each bonus

must not show any strange behaviors and it must stay functional.

 \times No

We will look at your bonuses if and only if your mandatory part is excellent. This means that you must complete the mandatory part, beginning to end, and your error management must be flawless, even in cases of twisted or bad

Bonus

usage. So if the mandatory part didn't score all the points during this defense bonuses will be totally ignored. When I'll be older I'll be John Carmack

implemented and fully functional. Rate it from 0 (failed) through 5 (excellent)