

BLG 252E HOMEWORK 2 REPORT

How to compile...

You can compile with this command -> “ g++ *.cpp -std=c++14 ”
Then you run the program with “ ./a.out ”

Why I use...

I need to use virtual function in Grayling class because if object is child, I want to use child function, not ancestor function. Because Grayling is healthy, but Grayling1, Grayling2, and Grayling3 is not healthy. They have mutation probability and mutation probability increasing. They have also different dead age. So if I do not use virtual, Grayling2 object use ancestor aging, givebirth, and print function, this is a fault.

I need use protected variables in Grayling class because child classes can use this variable. If I do they private, child classes cannot use directly. Protected is less safe than private, but this usage is more fast.

I use public methods in all classes because this methods can be use in main function. And if there are same naming methods, I must use virtual.

I use private variables and functions in Grayling1, Grayling2, and Grayling3 classes, because these variables and functions should only be used by their own methods. This is a more safe.