## {EPITECH}

# DAY 06 IOSTREAM, STRING AND OBJECTS



#### **DAY 06**

All your exercises will be compiled with g++ and the -std=c++20 -Wall -Wextra -Werror flags, unless specified otherwise.

All output goes to the standard output, and must be ended by a newline, unless specified otherwise.



None of your files must contain a main function, unless specified otherwise. We will use our own main functions to compile and test your code. It will include your header files.

For each exercise, the files must be turned-in at the root of your repository unless specified otherwise.



Read the examples CAREFULLY. They might require things that weren't mentioned in the subject...



The \*alloc, free, \*printf, open and fopen functions, as well as the using namespace keyword, are forbidden in C++. By the way, friend is forbidden too, as well as any library except the standard one.



#### **Unit Tests**

It is highly recommended to test your functions as you implement them. It is common practice to create and use what are called **unit tests**.

From now on, we expect you to write unit tests for your functions (when possible). To do so, please follow the instructions in the **"How to write Unit Tests"** document on the intranet, available here.

For them to be executed and evaluated, put a Makefile at the root of your directory with the tests \_run rule as mentionned in the documentation linked above.

Here is a sample set of unit tests for the **string** class:

```
#include <criterion/criterion.h>
Test(string, default_value)
{
    std::string s;
    cr_assert_eq(s, "");
}

Test(string, assign)
{
    std::string s;
    s = "test";
    cr_assert_eq(s, "test");
}

Test(string, append)
{
    std::string s("test");
    s += "ing";
    cr_assert_eq(s, "testing");
}
```



### Exercise O - Z is (still) for Zorglub



Turn in : Makefile, Z.cpp in ex00/
Makefile rules : all, clean, fclean, re
Executable name : z (uppercase 'Z')

Our Lord and Genuis Zorglub, master of Zorgland, requires your services. Your brillant zorgmanizer character selection software must be converted to a much more evoluted programming language. Rewrite your program in C++.



As we use the CamelCase naming convention in C++, be careful to correctly name your source files and binary.

```
Terminal - + x

~/B-PDG-300> ~/B-PDG-300> ./Z ''0x42242112'' | cat -e

z$

~/B-PDG-300> ./Z ''invalid_ID'' ; echo $?

z
0
```

