

Lab 1

Getting Started

Hello World!

Our first program

```
#include <stdio.h>
int main() {
    printf("Hello World!");
    return 0;
}
```

Our first C code is to simply print a string Hello World! in the screen

Hello World!

Our first program

```
#include <stdio.h> +
                                                  For now, always start with these two lines
int main() {
    printf("Hello World!");
     return 0;
                                  and always end with these
```

Our First Lab Example (1)

- 1. Use Firefox/Chrome, go to https://codecast.france-ioi.org/v6/
- 2. Type the code

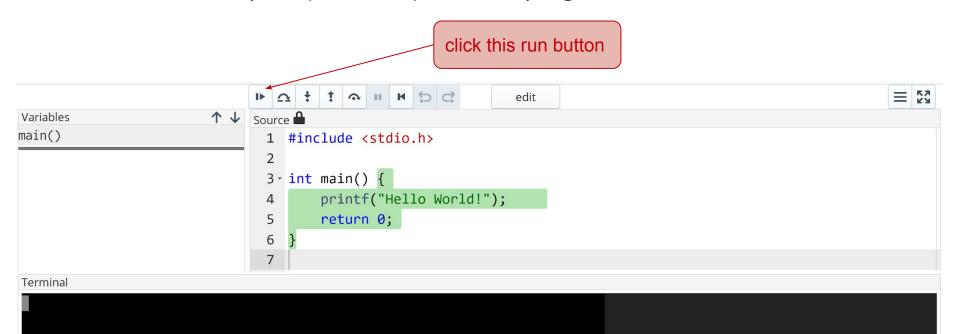
```
#include <stdio.h>
int main() {
    printf("Hello World!");
    return 0;
}
```

this button

3. Click compile

Our First Lab Example (2)

4. If the code compiles (no errors), run the program



Our First Lab Example (3)

5. The program runs and prints in the console/terminal

The string in printf is printed here

Our First Lab Example (4)

6. Click edit if you want to continue write and debug your C code

```
this button
                             D Ω † ↑ Ω II K 5 C
                                                              edit
                        ↑ ↓ Source •
Variables
                               1 #include <stdio.h>
                               3 int main() {
                                      printf("Hello World!");
                                     return 0;
Terminal
Hello World!
```

From now on, you will write and test your code using this Codecast!

The First Lab Exercise

- We now continue with the Lab Exercise
- Just like the Lab Example, you will use Codecast to write and test your code
- However, since it is graded, you will also need to submit your code using the LMO VPL.

- In the next slide, you will see the Lab Exercise
- Lab Exercise slides will consist of
 - Description of the problem
 - One or more test cases
 - Hints and skeleton code (optional)

After that, we will guide you to solve and submit the Lab Exercise

Exercise Learning C in Linux

- Complete the code to print in 2 lines: Hello World!
 I'm learning "C in Linux" coding
 - Hint: Use the escape sequence \" and new line character \n
- Skeleton code:

```
#include <stdio.h>
int main() {
    return 0;
}
```

Our First Lab Exercise (1)

- Use Firefox/Chrome, open Codecast in https://codecast.france-ioi.org/ v6/
- 2. Copy paste the skeleton code and complete the code in Codecast using printf
 - use the escape sequence \" in the string to print the double quote
 - use the new line character \n in the string to change line
 - IMPORTANT: from now on, always ends the last printf with \n
 - o for example:

```
printf("Always end last \"printf\" with a newline\n");
```

the LMO VPL

otherwise, the ICE VPL grader will mark your code incorrect!

Our First Lab Exercise (2)

Continue write, test, edit your code in Codecast until it displays the correct 2 lines as specified in the Lab Exercise description

After you are satisfied with your code, go to LMO and click LMO VPL Lab Exercise below



Exercise - Learning C in Linux

Our First Lab Exercise (3)

5. You will see the following screen, click Edit

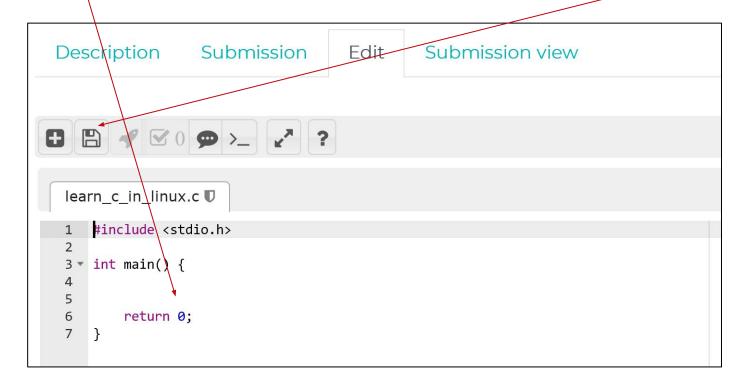


Requested files

Ex.1.1.c

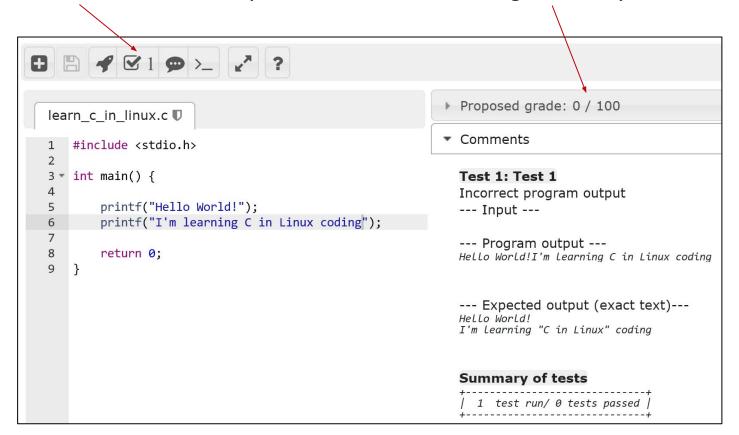
Our First Lab Exercise (4)

6. Copy Paste your code from Codecast, and then click Save



Our First Lab Exercise (5)

7. Click Evaluate and then you will see the following result if you made mistake



Our First Lab Exercise (6)

8. You can go back to code, debug, and test again in Codecast, and return to LMO VPL, Copy Paste, Save, Evaluate again; you get 100 if you pass all test cases

