

### Function prototype

```
int main(argc, **argv){
    int age = 19;
    printf("I'm %d years
old\n", age);
    return 0;
}
```

`%d` formatting correspond to the (only) parameter after the comma `age`. This function must return an int (specify in prototype).

### Low level programming

Fast and memory efficient 👍

Powerfull 👍

Direct contact with hardware 👍

More control 👍

Machine dependent 🗨

Unsafe 🗨

Requires a high level of knowledge 🗨

Difficult to developp and debug 🗨

### Type formating

signed char	%c
unsigned char	%c
short signed int	%d
short unsigned int	%u
singed int	%d
unsigned int	%u
long signed int	%ld
long unsigned int	%lu
float	%f
double	%lf
long double	%Lf

### Compiler - gcc

```
$ gcc -Wall -Wextra -Werror -O3
-o name_exe name_c_file.c
$ ls
name_exe name_c_file.c
$ ./name_exe
```

First command to compile (cpp, gcc, as, ld) and second to launch your executable file.

### Best text editor / IDE for C

Vim 🐱

Sublime Text

Emacs

Visual Studio Code

CLion

CodeBlocks

XCode 🍏

Atom

C

By [hugo.buissez](https://hugo.buissez.com)  
[cheatography.com/hugo-buissez/](https://cheatography.com/hugo-buissez/)

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