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) parrameter 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 |