```
Tr function_name(T1 v1, T2 v2, ...., Tn vn)
{
    // BODY
}
```

Header

Body

Header :

   1) Return Type

   2) Name of function

   3) Number of formal Parameters.

   4) Type of each formal parameter.

Body:

   Any Number of Statements

Auto-call:

   1) Return Type

   2) Name of function

   3) Number of formal Parameters.

   4) Type of each formal parameter.

At least one, at most all will be decided by C++ lang. Syntax.

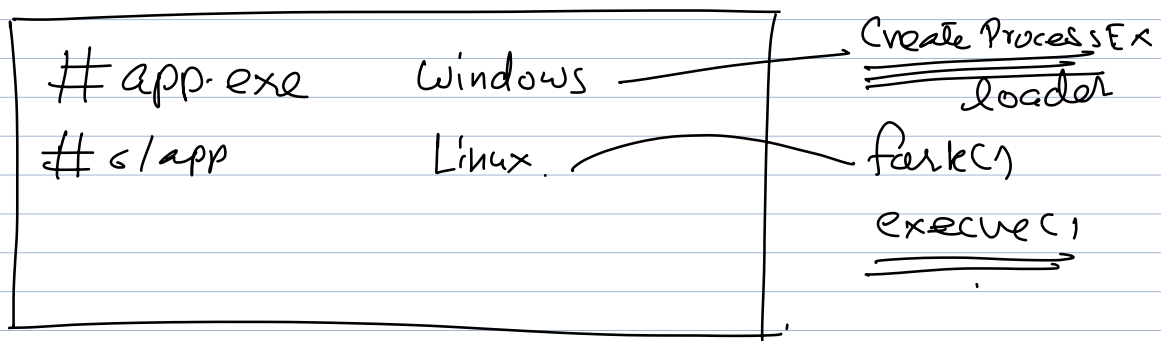Body will always be written by programmer.
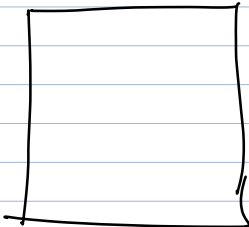
No interference from lang.

int main(void)

or

int main(int argc, char* argv[])

or

int main(int argc, char* argv[], char* envp[])

```
#app.exe        Windows
#s/app          Linux
```

Create ProcessEx
loader

fork()

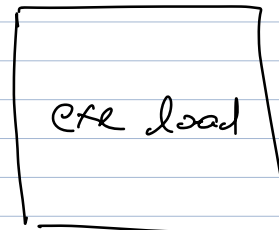execue()

Create ProcessEx

new Proc.
Addr. Space
+
exe load.

fork()

new addr. space

exe load

execue

Control flow

loader → CRT

Linux:

execve () ⟶ _start ⟶ __libc_main() ⟶ main()

Win:

CreateProcessEx() ⟶ mainCRTStartup() ⟶ main()

Console App   Desktop App

ASCII   main()   WinMain()

Unicode   wmain()   wWinMain()

        mainCRTStartup()   WinMain CRT StartUp()

        wmainCRTStartup()   wWinMain CRTStartup()

details   O.S. ✗