The Compilation Process

Preprocessor

- Takes your C++ source code and evaluates preprocessor directives.
- Produces a preprocessed source file (but usually is just part of compiler).

Compiler

- · Takes preprocessed source code, compiles into object files.
- Checks that your code conforms to all syntax and semantic rules (e.g., no type errors).
- Accepts promises from the code about things defined in other source files.

Linker

- · Takes object files, links them into an executable program.
- Ensures that all of the promises to the compiler are kept.

```
#include <iostream> Use a library

int main() Special function name that the OS calls to run your program

{

std::cout << "Hello, World!" << std::endl; return 0; 
std::cout represents console output << means send the next thing to it
```