

Introduction to Programming II

Compilers and Design

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6-2: Stages of Compilation

- What are the stages of the compilation of a program?

6-3: Stages of Compilation

- What are the stages of the compilation of a program?
- Lexing - separate source code into tokens.
- Parsing - evaluate statements and generate assembly code
- Assembly - transform assembly code into binary code.
 - In Java, these are .class files.
 - Java stops here and uses an interpreter to control runtime execution.
- Other languages produce a single executable. This requires a fourth stage:
 - Linking - Multiple object files are merged into a single executable.