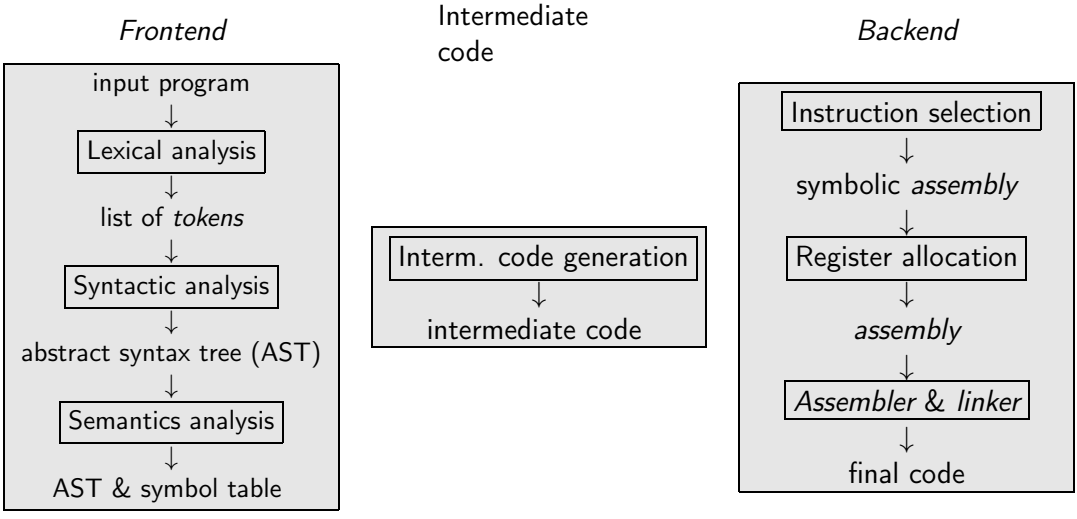
Compiler


Frontend
input program
Lexical analysis
list of tokens
Syntactic analysis
abstract syntax tree (AST)
Semantics analysis
AST & symbol table
Intermediate code
Interm. code generation
intermediate code
Backend
Instruction selection
symbolic assembly
Register allocation
assembly
Assembler & linker
final code