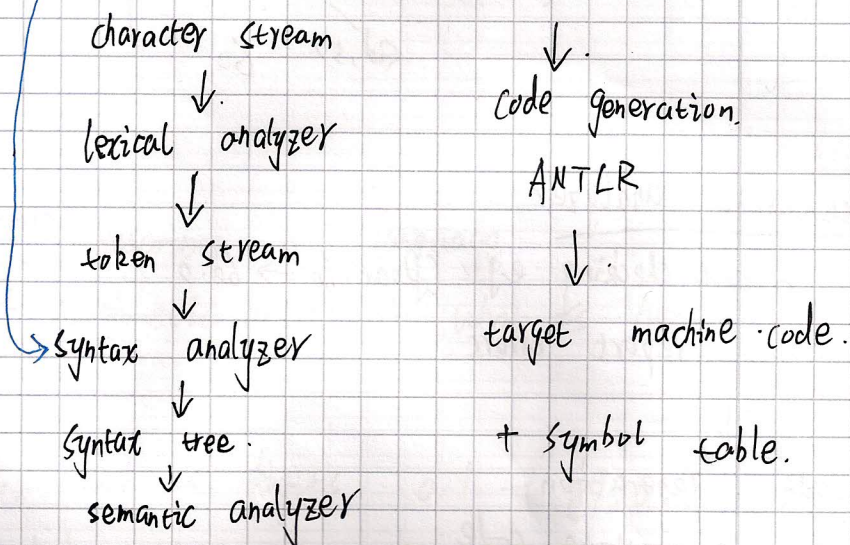Aho: compilers, principles, ~~techn~~ techniques

① formed grammar
→ context − free grammar.

② ~~tran~~ translators

③ parser

Structure of a compiler.

character stream
↓
lexical analyzer
↓
token stream
↓
Syntax analyzer
↓
Syntax tree.
↓
semantic analyzer

↓
Code generation.

ANTLR

↓
target machine code.

+ Symbol table.

Example (Aho p.4-6).

Position = initial + rate * 60

Lexical Analyzer: groups characters into meaningful.
Sequences ("lexemes") → tokens
< token − name, attribute − value >

e.g.   < Id. 1 > ⟶

< Id, 2 >

symbol table.

1	Id	"position"
2	Id.	"initial"