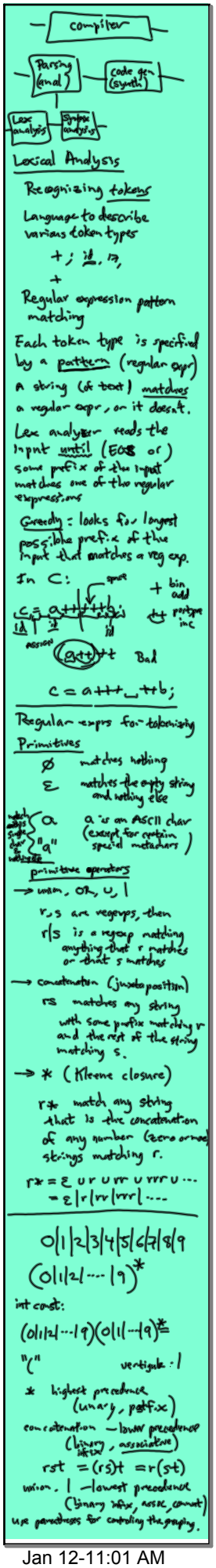

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Nonprimitives:

char set:

[adgz] := a|d|g|z

[*] metachars usually treated literally.

[(]

[(|)]

[0-9] = [0123456789]

= 0|1|2|....|9

int const:

[0-9][0-9]*

[A-Z] [A-z]

[a-z] [A-Za-z]

[0|1|2|3|4|5]

[012345|]

[-+] [[]

[\]] [\n] [\\n]

match newline only

matches \ or n only

[[\]]

complement set

[^abc] matches any single char other than a,b,c

[abc^]

r+ = rr*

one or more matches of r.

[0-9]+

[+-]? — zero or one occurrences of (optional)

r? = r|ε

[+-]?[0-9]+

optionally signed int const

"%d[]\n("

"main" = main

flex input file

preamble

%%

rules (sequence of rules)

%%

utilities

rule:

regexp action C code

example

[0-9]+ { return INTCONST; }

[A-Za-z_][A-Za-z_0-9]*

{ return ID; }

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