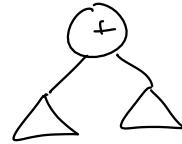


Parsing

tree is constructed
from the left
input
read left to right

we make decisions about how to build AST
from top to the bottom

(...) + (...)



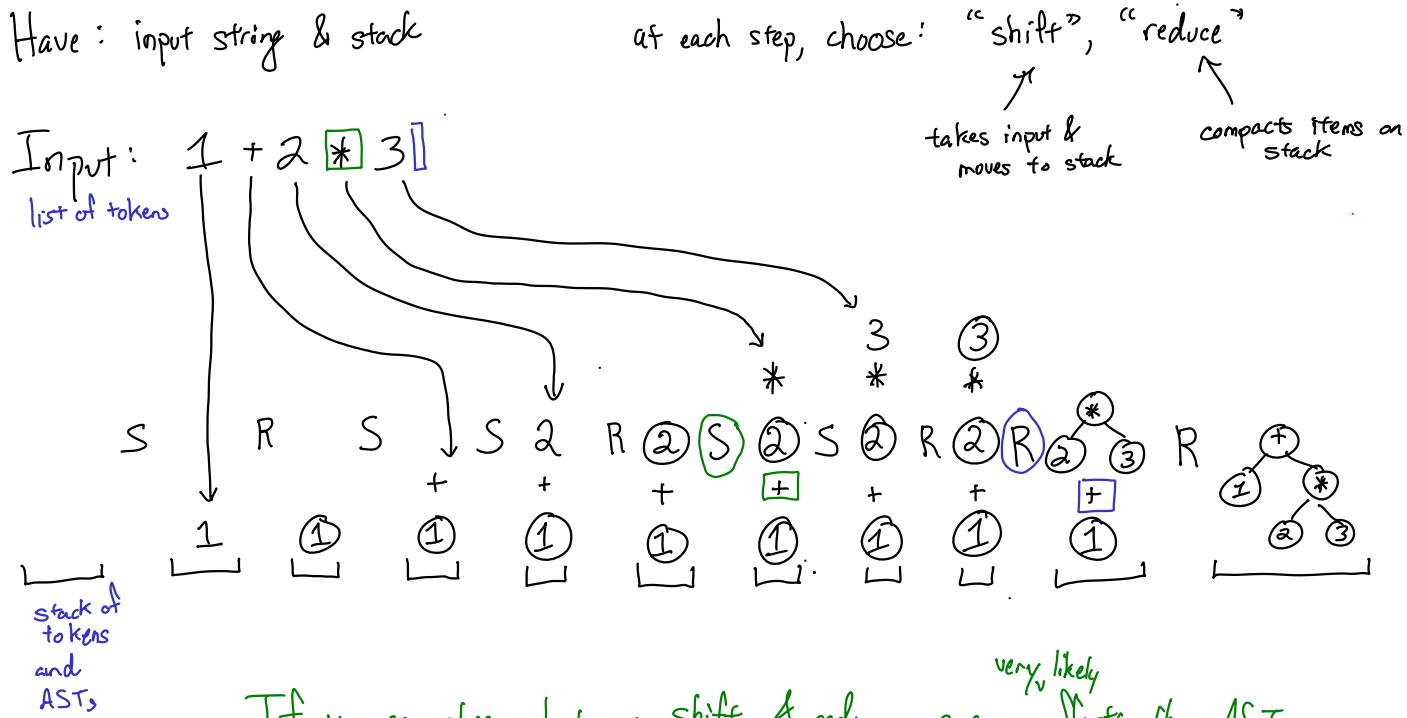
Today:

LR Parsing

tree is constructed
"from the right" → we make decisions from the leaves up

LR parsing is based on pushdown automata

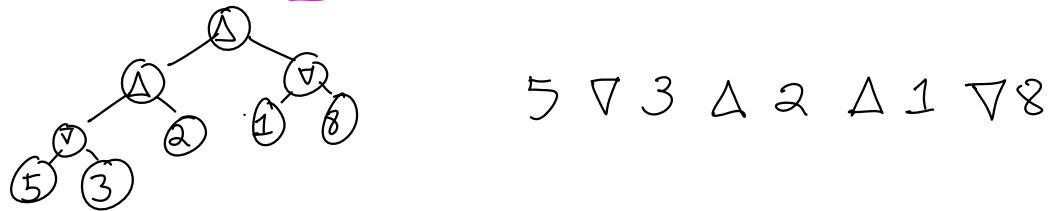
Here: Summary Algorithm (in spirit of LR)



If you can choose between shift & reduce, answer ^{very likely} affects the AST.

$\langle \text{expr} \rangle ::= \text{D1}$
 $| \langle \text{expr} \rangle \Delta \langle \text{expr} \rangle$
 $| \langle \text{expr} \rangle \nabla \langle \text{expr} \rangle$

This is an incomplete description.



.mly = "ocaml yacc" → "yet another compiler compiler"

