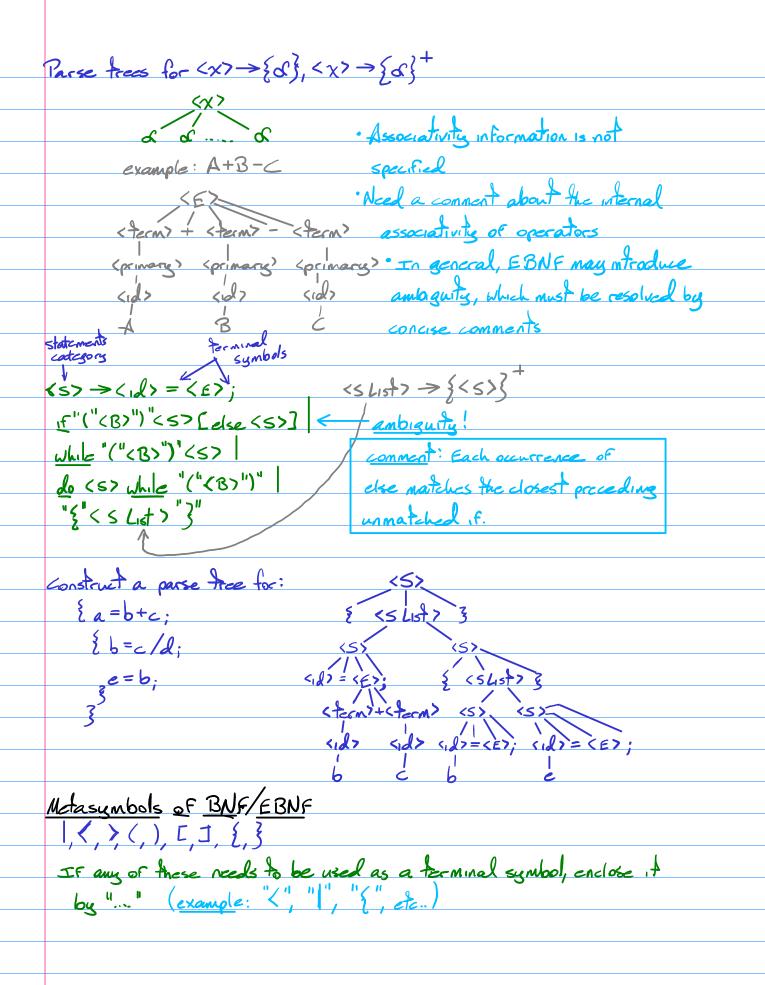
Extended BNF (EBNF) "syntactic sugars" for BNF, providing concise notations provide no additional power compared to original BNF · any grammar defined by FBNF can always be defined by equivalent, original BNF mandators multiple choice (a, ... an) denotes a mandatory choice of exactly one of: optional multiple choice [a; I... a,] denotes an optional choice of atmost one · zero or more iterations { d. } denotes zero or more iterations of a. 1, e. €, d, dd, ddd, ...d, one or more iterations { a} + denotes one or more iterations of a, $\{(\alpha, | \alpha_n)\}$ and $\{(\alpha, | \alpha_n)\}$ may be abbreviated to , respectively, {S, 1 ... | S, } and {S, 1 ... | S, } <int> -> { < id>> < lefter> { digit > { digit > } <1001> > {<digit>}+"" {<digit>}+ [(E|e)[+|-] {<digit>}+ < E> -> < fem> { (+1-) < fem> } < form> > < primary> { * 1/) < primary> { (primary) > < id> < in+> < float> | "("<E>



	Methods Of Lexical Analysis
	· BNF/EBNF for tokens can be done by a small subset of BNF/EBNF
	corresponding to regular expressions (no need for one recursive production rules,
	but you need {a} and {a} +
	construct a Deterministic Finite Automaton (DFA)
F	
	Driver program + State-Transition Function
	cranks up state
	Fransition of DFA
	Lexical Analyzer
	Review Of DFA's
	· A DFA consists of:
	· a finite set I of symbols
	• a finite set S of states
	· a special state sES, called the initial (start) state
	• a subset F⊆S, called the final state
	• a state-transition function S: S×I → S
	let S(s,i) = S _ Lagram: S be O for final states
1	<plus>>+ <r?aren>>")" </r?aren></plus>
•	$\langle minus \rangle \rightarrow - \langle int \rangle \rightarrow \{\langle digit \rangle\}^+$
•	<fires> > * (1d> >< letter> {< letter> (digit>)</fires>
	<di>>> / <float>> {< digit>}+ " " {< digit>}+</float></di>
•	< (Paren> > "(" < float E> > < float> (E e) [+ -] {< digit>}
	(digit) > 0 1 9 < lefter> > a 6 Z A B Z

