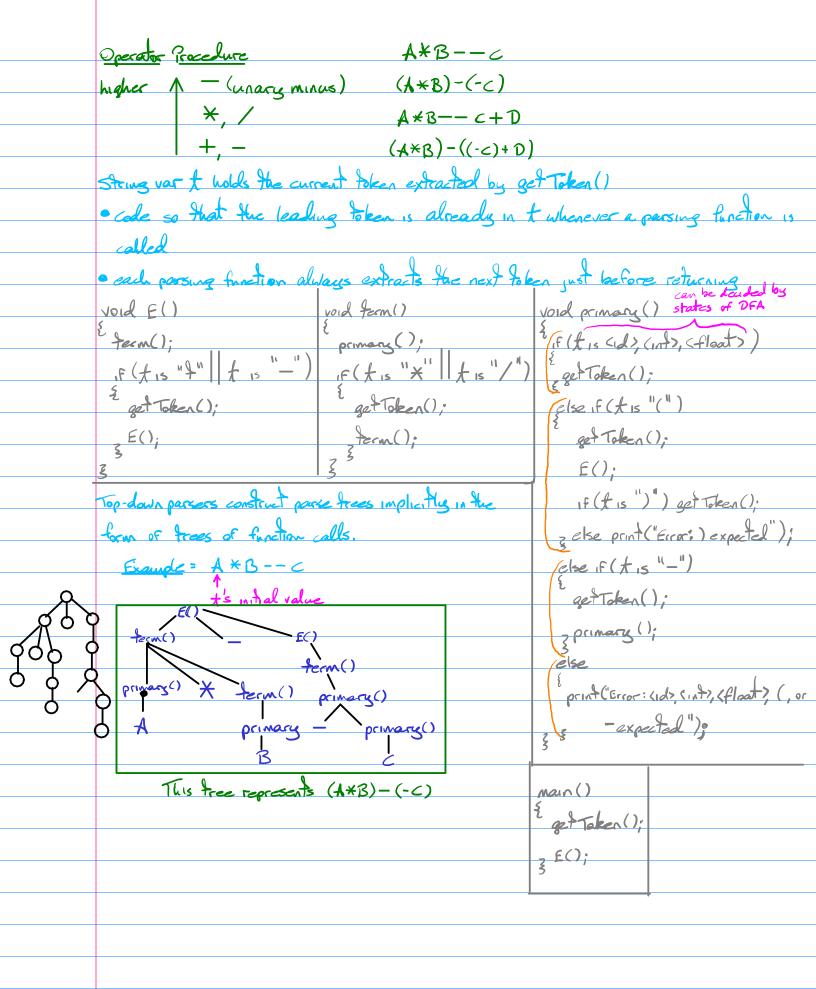
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	Millery 1 - 10-20-89
	· Up to & including top-down parsers with instruction emissions
	· class notes
	· up to and including course notes #6
	· exercise sets and 2
	· Simple Java lex analyses and parses
	Project Due 10-13-09
	Two Main Parsing Methods
•	Top-Down
	construct darnward eventually get to leaf note
	Done by a set of recursive functions "Suitable for hand-coding color country rules
	· create one function for each syntactic category
	· body cade is derived from the production rules (x) > (X) d
0	Bottom - up
	construct upward
	1caf tokens
	· Done by a "shift-reduce" process and a stack
	· Essentially implementations of push-down automata for context free languages
	· Suitable for automated parser generators (YACC Software)
	· can handle left-recursive production rules.
	Example= right-recursive
	<e>4 > (term) [(+ -)<e>] unary minus</e></e>
	<term> > <primary> [(* /)(ferm>]</primary></term>
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
	SCHWARY - CIA ! (INT !) TIGGY ! LET ! PRIMARY!



	(E) → (term) { (+ -) (term) }
	term> > (primary) { (* 1) < primary)}
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	vaid E() { Second ():
	{ }
	while (t 15"+" t 15"-") while (t 15" *" t 15"/")
	of Takes ():
	fern(); 2 primary();
	334
•	General Idea
0	collect all production rules for (X) in one line
	$\langle \chi \rangle \rightarrow \alpha_1 \alpha_2 \dots \alpha_n$
•	The leading tokens of a should be clear
0	Code schema:
	void x()
	if (t is leading token for a; { get Token(); process a;;}
	it (x is reacting token for (x,) get token(x), process (x;)
	else if (t is leading token for an) { get Token (); process an; }
	erse it () is reaching token for Qn/7 ger loken (); pracess Qn;
	else print ("Ecror:");