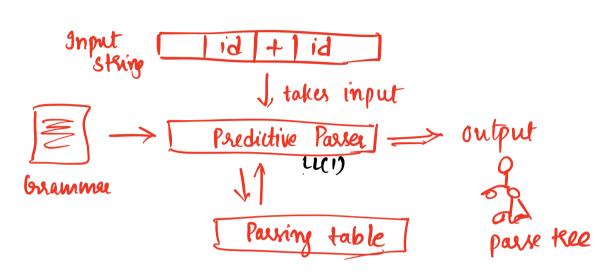
Predictive Pauser

> Non-Recursive descent passer / <u>LL(1)</u> /
Table du'ven passer



Steps: for LL(1) perser

- *1. Eliminate LR and also Check common prefines L. Factor ~
- * 2. first & follow ~
- * 3. Parning table /
- * 4. Stack Implementation
 - 6. Parse tree

Q) E- EHT IT LAS LM OF RHS $E \rightarrow E+T/T$ T -> T*F/F F -> (E) | id A - AX B & chiminete Input string: "id+id* id" A -> BA1 A'-> aA'le Step 1: LR & LF E -> E+TIT A X B $\vdash E \rightarrow TE'$ 2 E' -> +TE' 18 T*F/F 3 T→ FT 4. T'-> * FT'/e IE -> TE! IE -> TE! 2. E'-> +TE'/E - E'->E A > &B, | &B2| &B 3. T. -> PT! 4. 1 -> *FT'/E - T'-> * A -> dA Step2:

	€√	EX sadded
	FIRST	FOLLOW FOR IST
E	€ (, id 3	4),53
ϵ'	5+, 83	4), \$3
T	(L, id 3	§ +,), \$ 3
T'	ર્ *, દ3	8+, 1, \$3
F	q c, idg	9*,+,),\$3

Step3: pouring table T->

NTY	l id	+	*	()	\$
() E	E-9TE	·	·	E→TE		
@ E'		E-+TE			€'→ &	e'->&
3 T	T-9FT			T→FT		
6 T'		7-1-8	7 -> *FT		T198	36-7
© F	F-9 id			F->CE		

How to fill table

1. first of E is: of(, id) so fill the boxes of (, id)

with E production.

2. E' has + & E, so check for follows and in follows

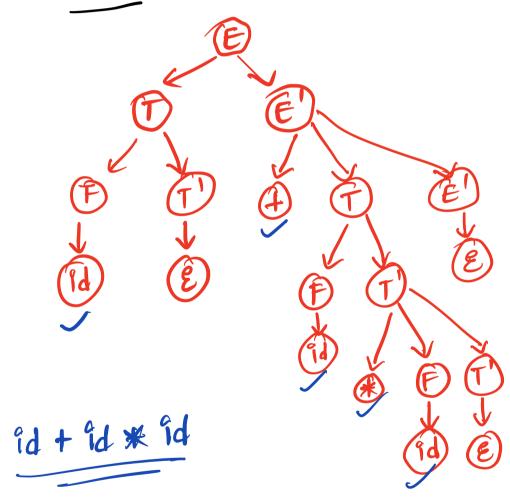
+: $e' \rightarrow +Te'$ values $2, \pm$ write $e' \rightarrow E$

Step 4: Stack Implementation

step 4: st	tack smplementation	"id+id*id"
Stack	Input	Action - production - on Rules
E: root mode	id+id *id \$	
What TE'S	id + id * id \$	E-> TE
FT'E'\$	id + id * id \$	T -> FT
oxaleld	id + id * id \$	F->id
E E 4	+ id * id \$	T!->E.
V+cl &	* id * id \$	E'->+TE'
ATE'\$	id * id \$	T->FT1
FT'E'\$	id * id \$	$F \rightarrow id$
idt'e'\$		T1-3 * FT1
*FT'E'\$	* id \$	$e \rightarrow id$
id T'E'\$	jet 4	71-98
E-NUL E'S	*	
Enail	**	e - 9 E
		1

therefore, the given grammer can be passed using U(1) passes.

Step 5: Passe Tree:



e): check whether given grammar can be passed by U(1) passer/table driven passer

s→ iets/ ietses/ a E → b

string is 'eab'