```
LR(0) tables and parser:
   A0= V0(E)
   V : ES \rightarrow .XYXY] E \in EFFO(XYXY) = \{ \epsilon \} yes

V : EX \rightarrow .OXJ (eX) = \{ \epsilon \} yes

V : EX \rightarrow .OXJ (eX) = \{ \epsilon \} yes

V : EX \rightarrow .OXJ (eX) = \{ \epsilon \} yes
  A_1 = V_0(X) = goto(A_0, X)
  V I: [S \rightarrow X, YxY] E \in EFF_0(YxY) = \{E\} yes

V [Y \rightarrow , 1Y] (1Y) = \{E\} yes

V [Y \rightarrow , ] : S/R conflict
   A2= Vo(0) = goto (A0,0)
   \sqrt{I: [X \rightarrow 0.X]} \in \{EFT_0(X) = \{E\}\} \text{ yes}
   V [X \rightarrow . DX] goto Az (OX) = \{E\} yes V [X \rightarrow . J S/R Conflict A3 = Vo(XY) = goto(A1, Y)
  V \quad I: [S \rightarrow xY, xY] \quad \xi \in EFF_0(xy) = \{\xi\} \text{ yes}
V \quad [X \rightarrow, OX] \text{ goto } A2 \quad (OX) = \{\xi\} \text{ yes}
   J EX→. J : S/R conflict
        A4= Vo(X1) = goto(A1,1)
  V I: \Sigma Y \rightarrow 1.YJ \Sigma \in EFF_0(Y) = \{ \epsilon \} \ Yes

V \Sigma Y \rightarrow .1YJgot_{A4} (1Y) = \{ \epsilon \} \ Yes

\Sigma Y \rightarrow .J : SIR conflict
        \underline{A_5} = V_0(0X) = g_0t_0(A_2, X)
        V I: [X -> 0X, ] 1 item is cons.
```

parser:									
•	3	S	X	\forall	0	1			
Ao	(S, r3)		AI	a make and a second a large of	Az				
AI	(5,15)			A3		A4			
A2	(5, 13)	The state of the s	A5		Az				
A3	(5, r3)		Ab		Az				
A4	(S, rs)			A ₇		Ay			
As	<i>r</i> 2								
A6	(5, r5)			A8		Ay			
177	r4	(All ADDITION OF THE PROPERTY							
AS	ri (acc)	Reduction (CV)							
		CANA	1:et		1 N M NOTE - 1				

1.6 $S \rightarrow \times Y \times Y$ $X \rightarrow o \times 1 \in$ Y-> 141E LRU) tables and prove it's net LR(1). $\frac{A_0 = V_1(E)}{I: CS \rightarrow .xyxy, E} \qquad ||o|E = FF_1(xyxy) = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = FF_1(xyxy) = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$ $I: CS \rightarrow .xyxyy, E \qquad ||o|E = \frac{20}{9}\%$: 5/R conflict

ii G, is not LRU).

```
2 \textcircled{0} (0) S' \longrightarrow S
      u) S \rightarrow i \in tS
                                    LR(1) tables and parser
      (2) S -> ; E t 5 e S
      (3) S \rightarrow \infty
     (4) E -> 6
     PO=NICE)
     V I. [S'→. S, E]
     V [S→. iEtS, EJ allshipt
     V [5-, iEtSes, E] icons.
     V [s→·a,
     \sqrt{\frac{A_1=V,(S)}{E: [S' \rightarrow S., E]}}
                                 litemicons.
     Az=V,(i) = goto (Ao, i)
     V I: [S → i. E + S e S / E] all shipt
V I: [S → i. E + S e S / E] i cons.
                                             i cons.
     \sqrt{(E \rightarrow .b, t)}
       A3= V, (a) = got (A0, a)
     V I: [S→a., E] 1 item is cons.
       A4=VI(iE)=gota (Az, E)
     √ I: [S → i E. tS, ε] all shift i cons.
     ✓ I: [S → iE.tSeS, ε]
       A==Vi(ib) = goto (Az, b)
     V I: \Gamma \in \rightarrow b. +J
                                  litemicons.
        A6=Vi(iEt)= goto (A4,t)
           I: [ 5 - ; Et. 5, E]
                                          all shift is cons.
           に[5→;Et.5e5,E]
           [S - iEtS , Ele]
[S - iEtSeS, Ele]
[S - a, Ele]
```

```
\frac{A_7 = V_1(iE+S)}{V \quad E: [5 \rightarrow iE+S., E]} = \{e\} \times \{e\} 
V II [5 - lets. es, E] licons.
\frac{A_8 = V_1(iEti)}{V \quad I: \quad S \rightarrow i. \quad EtS \quad , \quad E|eJ
                                    all shipt i cons.
V I: [ S → i. E + S e S, E | e ]
V [E→·b, t] → goto AS
Ag= VI(iEta) = goto (AG, a)
V I:[S→a., E/e]
                           litern in cons.
\frac{A_{10}=V_{1}(iE+Se)=goto(A_{7},e)}{V \quad I: \Gamma S \rightarrow iE+Se.S, E} \quad \text{all slight in cons.}
V [5→. iEtS, E7) → goto Az
J [S - , a, E] -> gots A3
A_{11}=V_{1}(iEtiE)=goto(As,E)
V I: [5 → i E. tS, e/e] all shift :: cons.
ν I: [5 → iE. t SeS, ε|e]
ALZ=VI(iE+JeS) =goto(Ano, S)
V I: [S - i Et Se S., E] litem is cons.
 A13=V1(iEtiEt)=goto(A11,t)
V I: [S-) iEt. S, EIE] all sligt : cons.
    I: [ 5 - iEt. Ses, Ele]
V [S → · i E t S , E l e ] > go to A8

V [S → · i E t S e S, E l e ] > V
V = CS \rightarrow \alpha, E[e] \rightarrow goto Ag
```

```
A14= V_1(iEtiEtS) = goto(A_{13},S)

I: IS \rightarrow iEtS., E[e] E[e]
```

conflict in A14, & Gzis not LR(1)

•	i	t	e	a	Ь	ا ع	2	E	ì	t	e	a	b
Aυ	S			S		I II Divide a same	AI		A2	Water Land		A3	
A1						(acc)					Afternoon to the commence		
A2					S	no management of the	11000	A4			And American Company of the Company		A5
A3			1 2 2		To the state of th	r,3	11.0			de de constitue de la constitu	Table and the state of the stat		
At		5	: :				tal magni todani		and the state of t	A6	and the control of th		
Aç		1,4					The state of the s		4 		many versions strong on the second		
A6	2	0.00		2		C made on the contract	An		A۶		Markitis pakkempers on a sa	Ag	
An		1	5		The second secon	7,1			Section of the collection and		Aio		
A8		!	E DE LINE LE		5	Mark Modern Commence		AII	emplement of the profession	C To an and the state of the st			A5
Aq			r,3			r,3			10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -				
Ao	S		and the second second	2		Andreas and a factorist against	A12		A1			A 3	
AII		S			1	A Company of the Comp		energy and promotion of the state of the sta	1	A13			
An		To the second se				r, 2			and the same of th	-			
A13	S			2			A14	A 114 demonstrator	A8		į	Ag	
A14			111 15)	**************************************	8,1		e de constante de la constante			A15		
A15	5			S	ma december (n. n. rojon (indis	Substitution of the state of th	A16	der op de	Ag			Αq	
136		/	r,z		Parameter Address of the Control of	r,2			W			1	
•												,	
		const	ict.										

ibtaea 26 Stack A F AoiAz btaea + AviAzWAK taea £4 ADIAZE A4 " + AoiAzEA4tA6 a e a F AciAZEA4 tABXAG 6 0 15,3 ADIAZEAY tAGSA7 4,3 P AciAzE Ayt As SAge Are a 11 P AriAzE Ayt A65A7 & Aro XA3 FIR AN Y PAR PAKE PAN & PANS PARE 4,3,3 F, 2 Ao SAI 4,3,3,2 50 Do 2, 11 4,3,3,2,0 - accept and output 0,2,3,3,4

```
(0) S' \rightarrow S
3. S \rightarrow a^{(1)} a S b S | b S b | a S a S | b S a | a | b
    LR(2) tables:
    Ao- Vz(E)
   VI: [S'→, S, E]
   v [S→, aS6S, E]
    ν [S → . 6556, ε]
                           all stige items
   V IS→· aSaS, €]
   V [S → , 6Sa, E]
       IS→.a, EJ
   V [S→. 6, €]
   A1= V2(S) = goto (A0, S)
   VI: [S' > S., E] litemicons.
     Az= V2(a) = goto (Ao, a)
   V I: [ S → a. S65, E]
                                      E& EFF2(SbSE)
                                                          X
                                             SaS€
   V I. [S→ a. SaS, ε]
                                            asisty balbblablaa X
   J I: [S → a. , E]
                                            655b Oz
                                                          ×
                                                         X
   V [S - aSbS, balbblaalab]
                                            a SaS&z
                                                         X
                                             650, D2 "
      [S -> . 655b)
                                             a O2 11
   √ ES → aSaS,
                           11
       [S -. 6Sa,
                       " J
                                     in cons.
   V \subseteq S \rightarrow \alpha
        ΓS→· b,
                           \epsilon_{I}
```

```
A3= V2(b) = goto (A0, b)
I: [ S→ b. 556, E]
                                E & EFF2 (SSbE)
                                       Sae
I: [ S -> b. Sa, E]
                                     asbsoz(aalablbalbbla)
I: [S -> b. E]
                                     65560z
                                            11
                                     a Sa S &z
   [S → a SbS, aa ab ba bb a]
                                                 X
                                      65a 42
                                                 X
   r S → · bssb,
                    11
                                      a of
                                                 X
   IS - a Sas,
                     11
                                      b oz
                                                 X
   [S-- 6Sa,
                   11
                            コロ
                                 · Cons.
   IS - a,
                    11
   ΓS→·b,
                1)
Az= V2(aS) = goto(Az, S)
 I: (S - aS. 65, E]
                     all shift items in cons.
 I: [5 - as.as, E]
A= V2(aa) = goto (A2, a)
I: [S-) a. SbS, balbblaalab] balbblaalab
I: [5 a. SaS, 11
                          ] EFF2 (SbSO2(balbb/aglab))
                                    JaS⊕2
I: [S - a. ,
                     11
                                   asps
   [ S → . aSbS, balbbkalab]
                                   655h
                                           11
   [ 5 →· 655 b,
                                   aSaS
                     Ħ
                                    65a
   [S→ · aSaS, "
                                     Q
                                           11
   [S-. bSa,
                   11
                                           1)
   [S-. a,
                    " ] : S/R conflict
   rs -. 6,
                             i (73 is not CR(2)
                  ()
```