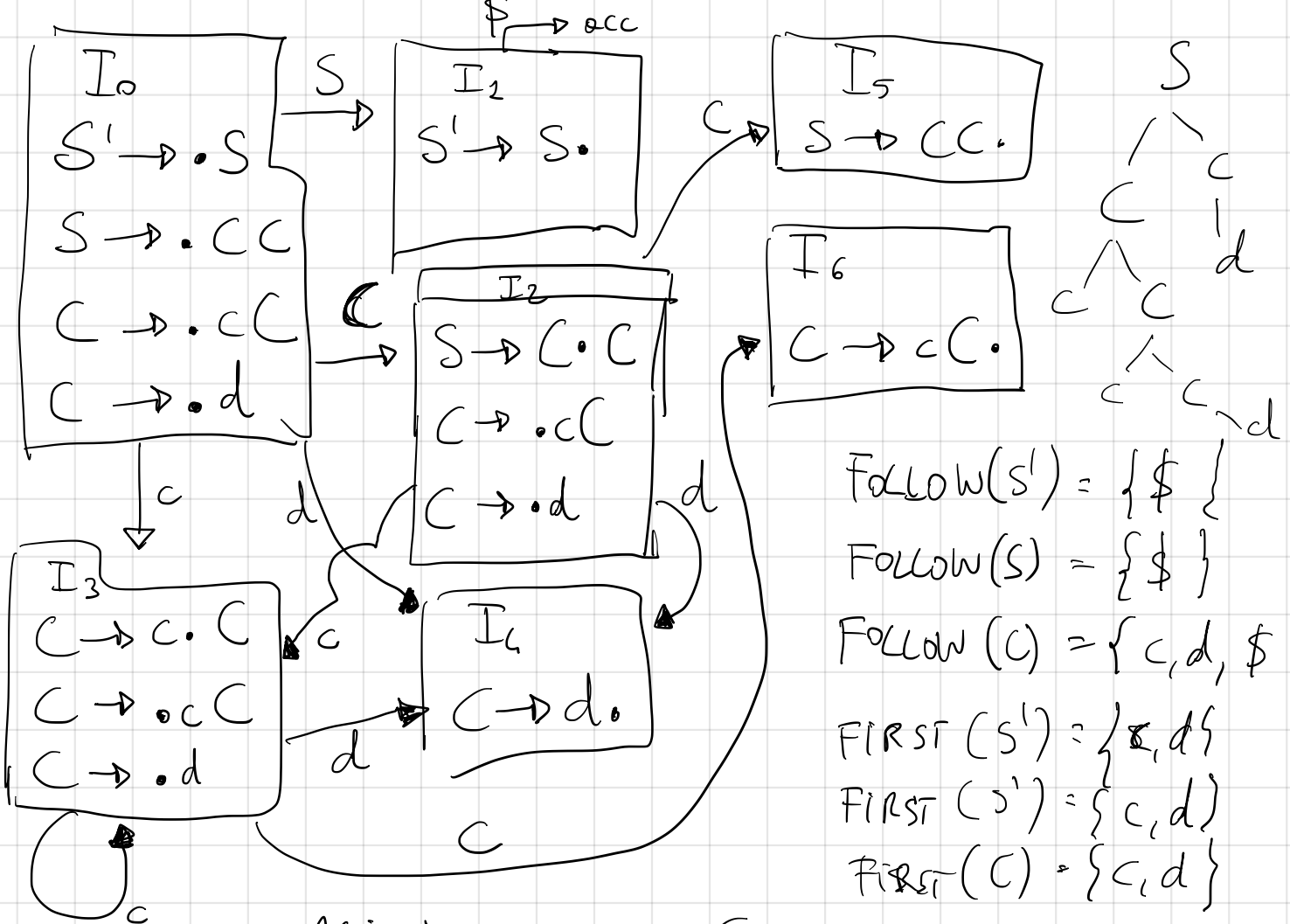


id \* id

STACK	SYMBOLS	INPUT	ACTION
∅	\$	<u>id</u> * <u>id</u> \$	shift
∅ 5	\$ <u>id</u>	* <u>id</u> \$	Red F → <u>id</u>
∅ 3	\$ F	* <u>id</u> \$	Red T → F
∅ 2	\$ T	* <u>id</u> \$	shift 7
∅ 2 7	\$ T *	<u>id</u> \$	shift 5
∅ 2 7 5	\$ T * <u>id</u>	\$	Red F → <u>id</u>
∅ 2 7 10	\$ T * F	\$	Red T → T * F
∅ 2	\$ T	\$	Red E → T
∅ 1	\$ E	\$	ACCEPT

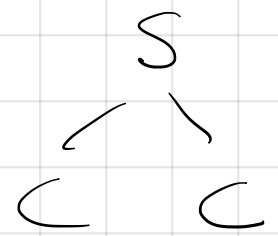
$S \xrightarrow{1} cC$      $C \xrightarrow{2} cC \mid \xrightarrow{3} d$      $S' \xrightarrow{0} S$      $\Sigma = \{c, d\}$



$FOLLOW(S') = \{\$ \}$   
 $FOLLOW(S) = \{\$ \}$   
 $FOLLOW(C) = \{c, d, \$ \}$   
 $FIRST(S') = \{c, d\}$   
 $FIRST(S) = \{c, d\}$   
 $FIRST(C) = \{c, d\}$

STATE	ACTION			GOTO	
	c	d	\$	S	C
0	S3	S4		1	2
1			acc		
2	S3	S4			5
3	S3	S4			6
4	r3	r3	r3		
5			r1		
6	r2	r2	r2		

The grammar is LR(1)



$L(S) = \{xy \mid x, y \in c^*d\} = \{dcd, \underline{c}dcd, dcd, cdd, ccdd, ccdd, \dots\}$

$\begin{matrix} x \\ c/cd \end{matrix}$      $\begin{matrix} x \\ cc/d \end{matrix}$

STATE	SYMBOL	INPUT	ACTION
∅	\$	ccd\$	Shift 3
∅3	\$c	cd\$	Shift 3
∅33	\$cc	d\$	Shift 4
∅334	\$ccd	\$	Red C → d
∅336	\$ccC	\$	Red C → cC
∅36	\$cC	\$	Red C → cC
∅2	\$C	\$	ERROR

Which is correct

because  $S \neq ccc d$

STATE	SYMBOL	INPUT	ACTION
∅	\$	cdd\$	Shift 3
∅3	\$c	dd\$	Shift 4
∅34	\$cd	d\$	Red C → d
∅36	\$cC	d\$	Red C → cC
∅2	\$C	d\$	Shift 4
∅24	\$Cd	\$	Red C → d
∅25	\$CC	\$	Red S → cC
∅1	\$S	\$	<u>ACCEPT</u>