Date: 6/07/22. Tulouialidssignment-4.

Deconstruct CLR paising table for the following eprammar.

$$S \rightarrow CC$$
 $C \rightarrow cC \mid d$ 

cons: idugmented Grammar

$$s^{l} \rightarrow c$$

$$S \rightarrow CC$$

$$C \rightarrow cC$$

$$C \rightarrow q$$

Then we have to find CRCI) eitem.

$$T_0: S' \longrightarrow S, $$$

$$S \longrightarrow CC,$$

$$C \rightarrow \cdot cC, clo$$

$$C \rightarrow \cdot d, cld$$

goto (Io, \$)

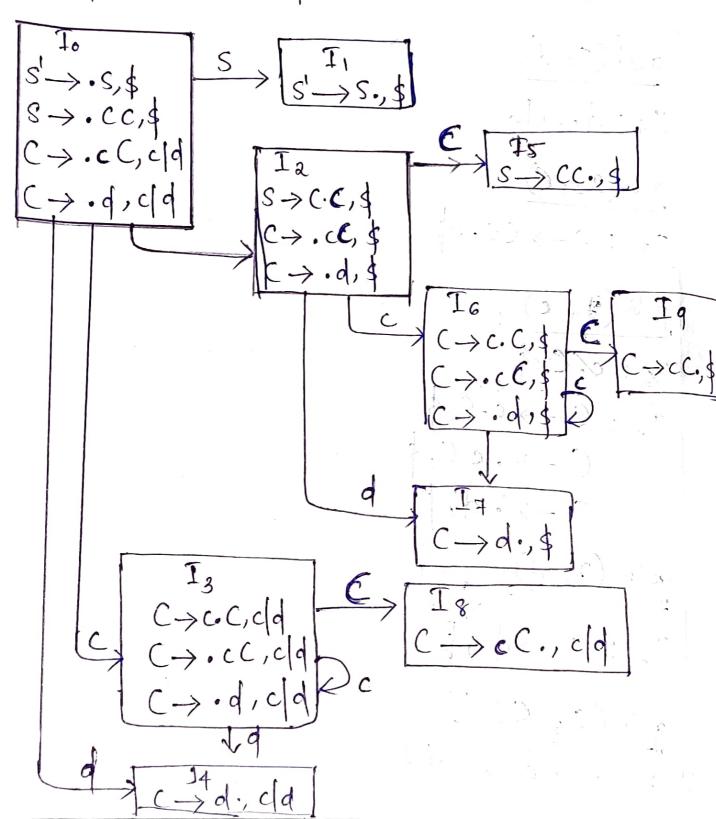
$$I_1: S' \longrightarrow S., $$$

$$T_{g}: S \longrightarrow \mathcal{C}.\mathcal{C}, $$$

$$C \longrightarrow .\mathcal{C}, $$$

c → · d,\$ goto (Io, c)  $I_3: C \rightarrow c.C, c|d$  $C \rightarrow \cdot cC, clo$  $e \rightarrow \cdot d$ ,  $d = \frac{1}{2} \cdot \frac{1}{2} \cdot$ goto (Io,d) I4: d., cld go to (I2, C)  $15:S\rightarrow CC., $$ goto (Ia, c) 16: c/C/\$ I6: ( -> c.C,\$  $C \rightarrow .c C, $$  $C \rightarrow \cdot d,$ goto (I2,d)  $T_{7}: C \rightarrow d., $$ goto (I3, C)  $I_8: C \longrightarrow cC., cld$ 

GLOTO GIRAPH FOR THE GIRAMMAR!



Number of productions.

$$\bigcirc C \rightarrow \bigcirc$$

$$I_1 = S' \longrightarrow S_{\bullet, s}$$

$$I_{t} = C \rightarrow d, $$$

$$I_q = C \rightarrow cC., $$$

. 3 h 3 H 3 -

-1.

| Slate | Action         |     |       | ejosto   |  |
|-------|----------------|-----|-------|--|--|
|       | С              | d   | \$    | 5  | ⊃ <b>e</b> ·')   |
| 0     | S3 .           | S4  |       |  | 2.   |
| l     |                |     | au    | * A.B)   |  |
| 2     | S <sub>6</sub> | Sa. |       |  | 5  |
| 3     | S3 1           | S4  |       | Pol  | 8  |
| 4     | 9.3            | 43. |       |  |  |
| 5     |                |     | ٩١    |  |  |
| 6     | Se             | Sq. |       | ,  | 9  |
| 4     |                |     | 9(3   | 1.05   | · ( )  |
| 8     | A2             | 9(2 | A     |  |  |
| 9     |                |     | 912 . | the same of the sa | The state of the s |