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Grammar:
S -> CC
C \rightarrow cC \mid d
Augmented grammar:
s' -> .s
s -> .cc
C \rightarrow .cC|.d
Canonical Collection of LR(1) Items:
Q0:
S' -> .S,$
S \rightarrow .CC, $
                 First(\$) = \{\$\}
C \rightarrow .cC, c|d First(C$) = First(C) = {c,d}
   | .d,c|d First(C$) = First(C) = {c,d}
Possible Transitions: S C c d
   - For S goto q1
   - For C goto q2
   - For c goto q3
   - For d goto q4
Q1:
S' -> S.,$
              Final/Complete Item
Q2:
S -> C.C,$
              First($) = {$}
C -> .cC,$
                 First(\$) = \{\$\}
  | .d,$
Possible Transitions: C c d
   - For C goto Q5
   - For c goto Q6
   - For d goto Q7
03:
C \rightarrow c.C,c|d
C \rightarrow .cC, c \mid d First(c) and First(d) = {c,d}
 \mid .d,c \mid d First(c) and First(d) = {c,d}
Possible Transitions: C c d
   - For C goto Q8
   - For c goto Q3
   - For d goto Q4
C -> d.,c|d Final/Complete Item
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Q5: S->CC.,\$ Final/Complete Item Q6: C -> c.C,\$ C -> .cC, \$ | .d,\$ Possible Transitions: C c d - For C goto Q9 - For c goto Q6 - For d goto Q7 Q7: C -> d.,\$ Final/Complete Item Q8: C -> cC.,c|d Final/Complete Item Q9:

Final/Complete Item

C -> d.,c|d

