

LALR Parser - RR Conflict

Consider the following grammar:

$S' \rightarrow S$
 $S \rightarrow aBc \mid bCc \mid aCd \mid bBd$
 $B \rightarrow e$
 $C \rightarrow e$

The LR(1) configuring sets are as follows:

$I_0: S' \rightarrow \bullet S, \$$
 $S \rightarrow \bullet aBc, \$$
 $S \rightarrow \bullet bCc, \$$
 $S \rightarrow \bullet aCd, \$$
 $S \rightarrow \bullet bBd, \$$

$I_1: S' \rightarrow S \bullet, \$$

$I_2: S \rightarrow a \bullet Bc, \$$
 $S \rightarrow a \bullet Cd, \$$
 $B \rightarrow \bullet e, c$
 $C \rightarrow \bullet e, d$

$I_3: S \rightarrow b \bullet Cc, \$$
 $S \rightarrow b \bullet Bd, \$$
 $C \rightarrow \bullet e, c$
 $B \rightarrow \bullet e, d$

$I_4: S \rightarrow aB \bullet c, \$$

$I_5: S \rightarrow aC \bullet d, \$$

$I_6: B \rightarrow e \bullet, c$
 $C \rightarrow e \bullet, d$

$I_7: S \rightarrow bC \bullet c, \$$

$I_8: S \rightarrow bB \bullet d, \$$

$I_9: B \rightarrow e \bullet, d$
 $C \rightarrow e \bullet, c$

$I_{10}: S \rightarrow aBc \bullet, \$$

$I_{11}: S \rightarrow aCd \bullet, \$$

$I_{12}: S \rightarrow bCc \bullet, \$$

$I_{13}: S \rightarrow bBd \bullet, \$$

