

$E \rightarrow 1$   
 $N \rightarrow 0$   
 $A \rightarrow EC \mid NS' \mid 0$   
 $B \rightarrow ES' \mid ND \mid 1$   
 $S \rightarrow \epsilon \mid EA \mid NB$   
 $C \rightarrow AA$   
 $S' \rightarrow EA \mid NB$   
 $D \rightarrow BB$



