

$S \rightarrow \$Z$
 $\$32Z \rightarrow \perp \mid \Z
 $Z \rightarrow [A-G]D \mid _N$
 $N \rightarrow (b+\#)A \mid [0-8]D$
 $A \rightarrow [0-8]D$
 $D \rightarrow s2Z \mid e4Z \mid q8Z \mid h16Z \mid w32Z \mid \textcolor{red}{S}3Z \mid E6Z \mid Q12Z \mid H24Z$

The red S symbolizes a char and is not a state. This is how we show the dotted Sixteenth note, like all other capital durations.

S is our start state; however, in the 2-state PDA automaton, S is represented by q0 and Z is represented by \$. Additionally, all numbers here are symbolic and represent the amount of X's that should be in the stack. (e.g. 2 \rightarrow XX, 4 \rightarrow XXXX)