```
L = 

\{w \in 

\{a, b, c\}^*

    2n_a(w) =
 n_b(w) + n_c(w)
   \begin{cases} L = \\ a^n b^m \end{cases}
 \begin{cases} a^{n}b^{m} \mid \\ n \leq \\ m + \\ 3 \end{cases} 
 L = \\ \{w \in \\ \{a, b\}^{*} \mid \\ 2n_{a}(w) = \\ n_{b}(w) \} 
 L = 
    \begin{array}{l} L = \\ \{\{a,b\}^* \mid \\ \{a,b\}^* \ aba \ \{a,b\}^* \notin \end{array}
  S \rightarrow aTTS \mid TaTS \mid TTaS \mid \varepsilon T \rightarrow b \mid c
  S \rightarrow aaaA \mid aaA \mid aA \mid \epsilon A \rightarrow aAb \mid BB \rightarrow Bb \mid \epsilon
  S \rightarrow SaSaSb \mid SaSbSa \mid SbSaSa \mid \epsilon
 S \rightarrow aA \mid bS \mid \epsilon A \rightarrow aA \mid bB \mid \epsilon B \rightarrow bS \mid \epsilon
 S \rightarrow AE \mid CA \mid aAa \mid bBb \mid \varepsilon A \rightarrow C \mid aB \rightarrow C \mid bC \rightarrow aE \mid b \mid \varepsilon D \rightarrow A \mid B \mid abE \rightarrow EC \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \varepsilon A \rightarrow C \mid AE \mid b \mid \Delta AE \mid \Delta A
 W
  S \rightarrow CA \mid aAa \mid bBb \mid \epsilon A \rightarrow C \mid aB \rightarrow C \mid bC \rightarrow b \mid \epsilon
  S' \to S \mid \epsilon S \to CA \mid aAa \mid bBbA \to C \mid aB \to C \mid bC \to b \mid \epsilon
  S' \rightarrow S \mid \epsilon S \rightarrow CA \mid aAa \mid bBb \mid AA \rightarrow C \mid a \mid \epsilon B \rightarrow C \mid b \mid \epsilon C \rightarrow b
  S \rightarrow CA \mid aAa \mid bBb \mid A \mid C \mid aa \mid bb \mid \epsilon A \rightarrow C \mid aB \rightarrow C \mid bC \rightarrow b
  S' \rightarrow S \mid \epsilon S \rightarrow CA \mid aAa \mid bBb \mid A \mid C \mid aa \mid bbA \rightarrow C \mid aB \rightarrow C \mid bC \rightarrow b
 \overrightarrow{S'} \rightarrow S \mid \epsilon S \rightarrow CA \mid aAa \mid bBb \mid A \mid C \mid aa \mid bbA \rightarrow b \mid aB \rightarrow bC \rightarrow b
 \overrightarrow{S'} \rightarrow S \mid \epsilon S \rightarrow CA \mid aAa \mid bBb \mid a \mid b \mid aa \mid bbA \rightarrow b \mid aB \rightarrow bC \rightarrow b
 \overrightarrow{S'} \rightarrow CA \mid aAa \mid bBb \mid a \mid b \mid aa \mid bb \mid \epsilon S \rightarrow CA \mid aAa \mid bBb \mid a \mid b \mid aa \mid bbA \rightarrow b \mid aB \rightarrow bC \rightarrow b
  S' \rightarrow BA \mid aAa \mid bBb \mid a \mid b \mid aa \mid bb \mid \epsilon S \rightarrow BA \mid aAa \mid bBb \mid a \mid b \mid aa \mid bbA \rightarrow b \mid aB \rightarrow b
 \overrightarrow{B}A
   A'AA'
  BBB
   A'A'
   BB \mid
 \overrightarrow{BA}
  A'AA'
BBB \mid
```

 $\begin{bmatrix} a \mid \\ b \mid \\ A'A' \mid \end{bmatrix}$