Theory of Computation
Homework 7.
Due Date: Wednesday, October 31.
Chapter 3, No. 7 but for the grammar

\[ S \leftarrow (S) | [S] | SS | ( | ] \]

2. Give CFGs to generate the following languages. For each variable in your grammars, be sure to specify the set of strings it generates.
   i. \( A = \{ w \mid w \in \{a, b\}^*, w \) has even length, and its two middle characters are the same. \)
   ii. \( B = \{ wcw^R \mid w \in \{a, b\}^* \} \).
   iii. No. 8v.
   No. 10. Again, for each variable in your grammars, be sure to specify the set of strings it generates.
   No. 12.