Homework Assignment 7:

- (12 Points) Problem A1. Construct the FIRST$_2$, FOLLOW$_2$, and LA$_2$ for each of the variables in the following grammar:

  \[ E \rightarrow dET \mid a, \quad T \rightarrow FeT \mid F, \quad F \rightarrow bEc \]

- (14 Points) Problem A2. Construct the FIRST$_3$ and FOLLOW$_3$ for each of the variables in the following grammar:

  \[ S \rightarrow aAbC \mid AAAC \mid ABC \mid bbAC, \quad A \rightarrow aAb \mid ab, \quad B \rightarrow bBa \mid ba, \quad C \rightarrow \# \mid #C \mid \lambda \]

- (6 Points) Problem 8.1 (c) & (d) only

- (12 Points) Problem 8.3 (a), (b), & (c)

- (6 Points) Problem 8.4