

Given is the following grammar:

$$\begin{aligned} S &\rightarrow Aa \mid bAc \mid Bc \mid bBa \\ A &\rightarrow d \\ B &\rightarrow d \end{aligned}$$

- A. Build the canonical collection and the DFA for this grammar.
- B. Construct action and goto tables. If the grammar is not LR(1), show the conflict(s) in the table.