

Consider the following grammar:

$$\begin{array}{lcl} S & : & AA \\ A & : & aA \\ & & | \\ & & b \end{array}$$

1. Construct the DFA for LR(0)
2. Construct parser table for LR(0)
3. Is the above grammar LR(0)? Justify your answer.

Consider the following grammar:

$$\begin{array}{lcl} S & : & E \\ E & : & T - E \\ & | & T \\ T & : & -- T \\ & | & \text{int} \end{array}$$

Answer the following:

1. Construct the DFA for LR(1)
2. Construct parser table for LR(1)
3. Is the above grammar LR(1)? Justify your answer.