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System Software

Tutorial 4

1. Consider the following Grammar:
   S-> AS | b
   A-> SA | a
   Construct the SLR parse table for the grammar. Show the actions of the parser, for the input string "abab".

2. Consider the following Grammar:
   S->AaAb | BbBa
   A-> ε
   B-> ε
   A. Obtain the canonical collection of set of LR(1) item.
   B. Construct the CLR parsing table for this grammar.
   C. Show the moves of CLR parser for the input "aabb"

3. Construct LALR parsing table for the grammar.
   S-> Ba | bBc | dc | bda
   B -> d

4. Show that the following grammar is LR(1).
   S-> Aa | aAc | Bc | bBa
   A-> d
   B-> d

5. Construct CLR parsing table for the following grammar. Also show all moves of CLR parser for the input "baab".
   S->AA
   A-> aA | b