

Coding language: Any GUI BASED compiler [LR(0) PARSING]

Coding Assignment - 1:*

Input: Parsing table for any grammar [States, Terminals and Non-Terminals]

Process: Scan operation on parsing table

Output: To decide

- a. Which rules of the grammar takes least time in reduction. [one or more rules may take same time]
- b. Which rules of grammar are frequently used in string derivation
- c. From parsing table, find out possible start symbols of valid string.
- d. How many non-terminals in grammar have same "follow" set or at-least some component common in "follow" set.

Code Assignment - 2:

Input: Parsing table for any grammar [States, terminal and non-terminals]

A string of characters [may be valid or invalid string]

Process: Scan operation on parsing table and string

Output: To decide

- a. Stack size required for string parsing
- b. Relationship between number of reduce operation and size of string.
- c. Frequency of characters in the string, which can be replaced by ϵ

Code Assignment - 3

Input: Parsing table for any grammar [States, terminals and non-terminals]

A string of characters

Process: Perform string parsing using STACK

Output: To decide

- a. Whether the given string is palindrome using STACK contents
- b. Whether the given string is ODD or EVEN size palindrome