

- Description of the process followed to build automation and the purple table
- i) First start with the strantsymbol production, placing a . intront of the production
- 2) Now for a state take the production of each non-terminal that is present just right of the dot until and put dot at the start of those productions until no new productions get added
  - 2) For a toursition from one state to another, look at the element (terminal/non-terminal) of those are just right of dot and group those productions and move dot a step towards right and give them as productions shorting productions for the next state to which we toansit from the cours state on
    - 4) Apply Step 2 to Step 3 for each and every starte while no new states adds up

Thus we get the de automata

## For Passe Table Generation, from the automata.

- i) for each state in the outromouta, on seeing a terminal, the State which we move is mertioned as a shift action to that state in the corresponding cell of the state and the terminal in the poorse table.
- 1) If we see a non-terminal transition from the current state to another state, we mark it at hoto post of the possetable corresponding to that row and column
- 2) If we see the dot (monter) at the end of a production in the list of productions the state has then use mark all the 6 terminal the entire 8000 of the corresponding State with a reduce action of that production.
- 4) we do the above steps for each and every state of the automata

Yes, the gramman is LR(0), no-conflicts in the table