



## Group - 10

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### Notes :

- 8) For state 51, we retract by 2 characters and return (TK-LT, <)
- 9) For state 53, we retract by 3 characters and return (TK-LT, <)
- 10) If we reach a dead state (not shown in DFA), we report a lexical error.

- 1) For state 2, we backtrack by 1 character and do not return any token
- 2) For state 6, we backtrack by 2 characters and return (TK-NUM, Lexeme)
- 3) For state 8, we backtrack by 3 characters and return (TK-NUM, Lexeme)
- 4) For state 12, we backtrack by 2 characters and return (TK-RNUM, Lexeme)
- 5) For state 14, we backtrack by 3 characters and return (TK-RNUM, Lexeme)
- 6) For state 20, we first lookup for keyword "\_main". If found, we return it <sup>return (TK-MAIN, \_main)</sup> else we return (TK-FUNID, Lexeme)
- 7) For state 29, we first lookup for keywords other than "\_main". If found, we return the corresponding token for that keyword else we return (TK-ID, Lexeme)