

Passing Control to Start State

or represents the characters on outgoing transistions from any particular State. Whenever any character other than that from or is read from a final state we pass control to the start state i.e.

 \forall f \in F, on transistion (f, x, g), $\chi \in \omega$ Pass control to 'S', if input $\in \Sigma - \omega$

Reporting Lexical Error

Whenever any characters on outgoing transistions from any particular State. Whenever any character other than that from or is read from a nonfinal State, we pass control to Trap State (T) and report lexical Error. (Except for conditional trap-State 3)

> \forall $q \notin F$, on transistion $(q, \chi, \chi), \chi \in \sigma$ Pass control to 'T', if input $\in \Sigma - \sigma$

CONDITIONAL TRAP: For State 3 if input is '.', then we do not move to trap. Instead, retract and pass control to start state.

Miscellaneous

- # COMMENTMARK, WHITESPACE & NEWLINE are ignored & not tokenised.
- # NEWLINE (State 39) increments the line Number & like any other final State, control is passed to Start State
- # When in State 13, & a newline character (In) is encountered, move to State 38, where line no is incremented.
- # Whenever a lexeme is generated, it is first checked in the lookup table to search for reserved keywords.
- # AND, OR, true, jalse are inserted in the lookup table but will be treated as tokens (lexernes)

EAM:

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