Pattern Matching NFA Includes

- Create an NFA for each pattern p_i

composite pattern of $p_1|p_2|...|p_n$

to the accepting state

occurred.

Add a new start state s₀
Link s₀ to the start state of each N(p_i)
The combined NFA must recognize the longest prefix of the input that is matched by a pattern.

• A transition table containing a non-deterministic automaton N for the

- Method
- 1. Add an accepting state to the current set of states
 2. Record the current input position and the pattern p_i corresponding
- 3. Continue making transitions until termination is reached, and mark as accepting state positions.4. On termination, move the forward pointer to the last match that

• If no pattern matches, then an error has occurred.

References [1] Jeffrey D. Ulman, Ravi Sethi, Alfred V. Aho Compilers: Principles, Techniques and Tools copywrite 1986 by Bell Telephone Laboratories, Incorporated page 130-131