Three cases exist for this statement: 1. No pattern matches (report the error) 2. One pattern matches (chose the matching lexeme) 3. More than one pattern matches

"Our problem is to construct a recognizer that looks for lexemes in the input

A finite automation is a natural model to build a lexical analyzer around.

• Chose the longest lexeme matched

• Chose the first listed matching pattern lexeme.

buffer."

## References

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