**LAB 4 FINAL**

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G937/1

https://github.com/toadereandreas/Formal-Languages-and-Compiler-Design

**EBNF:**

“=” means equal by definition (may expand into)

“|” means or, alternative

FILE = STATES NEWLINE ALPHABET NEWLINE INITIAL\_STATE NEWLINE FINAL\_STATE NEWLINE TRANSITIONS

NEWLINE = ‘\n’

STATES = “states = “ {STATE}

STATE = <SEQ\_OF\_LETTERS\_ANDOR\_DIGITS>

SEQ\_OF\_LETTERS\_ANDOR\_DIGITS =

= LETTER {DIGIT} | {LETTER} {DIGIT}

LETTER = “a” | “b” | … | “z” | “A” | “B” | … | “Z”

DIGIT = “1” | “2” | … | “9” | “0”

ALPHABET = “alphabet = “ {ALPHABET\_SYMBOL}

ALPHABET\_SYMBOL = {DIGIT}

INITIAL\_STATE = “initial\_state =” STATE

FINAL\_STATE = “final\_states =” {STATE}

TRANSITIONS = {TRANSITION}

TRANSITION = “(“ STATE “, “ ALPHABET\_SYMBOL “) -> “ + STATE NEWLINE