Lab 4

Lexic:

States (including startstates, initialstates, endstates and finalstates):
- a sequence representing the name of the state
  (ex: could be any letter P, Q, R or any sequence P1, P2, P3)

Sintactical rules:

The program will contain at least 5 lines:

- The first line will contain all the states separated by space
- The second line will contain the alphabet, the symbols are separated by space
- The third line will contain the initial state
- The fourth line will contain the final states separated by space
- The next lines until the end of the file will represent each transition:
  - A transition line contains the starting state of the transition, followed by space, followed by the end state of the transition, followed by space, followed by the symbol value of the transition

EBNF:

program = line1 "\n" line2 "\n" line3 "\n" line4 "\n" transitionslines

line1 = STATE | STATE " "

line2 = symbol | symbol " "

line3 = INITIALSTATE

line4 = FINALSTATE | FINALSTATE " "

transitionslines = transition | transition "\n"

transition = STARTSTATE " " ENDSTATE " " symbol