Documentation for FA

BNF for the FA.in form:

<state> ::= a | b | … | z
<states> ::= <state> | <states>, <state>
<digit> ::= 0 | 1 | … | 9
<alphabet> ::= <digit> | <alphabet>, <digit>
<init_state> ::= <state>
<final_states> ::= <state> | <states>, <state>
<transition> ::= <state>, <digit>, <state>
<transitions> ::= <transition> | <transitions> newline <transition>
<file> ::= <states> newline <alphabet> newline <init_state> newline <final_states> newline <transitions>

Data structure:
The FA is a class having the following attributes:
The states, alphabet and final states are represented by lists of strings (one string representing a state/alphabet)
The transitions are represented by a list of lists (these lists representing each one transition with 3 elements containing it)
The initial state is represented by one string (a state)

The methods:

- read_file : reads the information from the FA.in file
- run_menu : runs the menu where the program displays the information
- get_transition_for : it gets the destination states for one state and one element of the alphabet
- check_dfa: checks if one sequence is accepted by the FA