

Definition of the structure of the input file for the finite automaton:

`<fa> ::= <initial_state> <transitions>`

`<initial_state> ::= '{' <state> '}' ',' <alphabet> '->' '(' <state> ')' | '[' <state> ']'`

`<transitions> ::= <transition> | <transition> <transitions>`

`<transition> ::= '(' <state> ',' <alphabet> ')' '->' '(' <state> ')' | '(' <state> ',' <alphabet> ')' '->' '[' <state> ']'`

`<state> ::= 'q' <number>`

`<alphabet> ::= <char> | <char> '-' <char>`

`<char> ::= 'a' | 'b' | 'c' | ... | 'z' | 'A' | 'B' | 'C' | ... | 'Z' | '0' | '1' | '2' | ... | '9'`

`<number> ::= '0' | '1' | '2' | ... | '9'`

`<fa>` is the top-level rule and it represents the entire input file. It consists of an initial state and a list of transitions.

`<initial_state>` defines the rule for the initial state. It starts with an opening curly brace '{', followed by a state, a closing curly brace '}', a comma ',', and an alphabet. Then it ends with an arrow '->'.

`<transitions>` defines the rule for the list of transitions. It can consist of one or more transitions.

`<transition>` defines the rule for a single transition. It starts with an opening parenthesis '(', followed by a state, a comma ',', an alphabet, and a closing parenthesis ')'. Then it ends with an arrow '->' and either a final state or a non-final state.

`<state>` defines the rule for a state. It starts with the letter 'q' followed by a number.

`<alphabet>` defines the rule for the alphabet. It can be a single character or a range of characters separated by a dash '-'.

`<char>` defines the rule for a single character. It can be any uppercase or lowercase letter or any digit.

`<number>` defines the rule for a number. It can be any digit.