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Documentation – Finite Automata

$M = (Q , \Sigma , P, q_0, F)$

Q – set of states
Σ - alphabet P –
transitions q_0 –
initial state
F – set of final states

file.txt

```
q0 q1 q2
1 0 2
6
q0 q1 0
q1 q0 4
q2 q1 3
q1 q2 2
q2 q0 5
q0 q2 1
```

BNF

<set_of_states> ::= <state> <set_of_states> | <state>
<state> ::= ”q0” | ”q1” | ”q2”

<alphabet> ::= <alphabet_el><alphabet> |
<alphabet_el> <alphabet_el> ::= ”0” | ... | ”5”

<begin_end_transitions>::=<begin_index_transition> <value_index> < end_index_transition>

<transition_line> ::= <begin_state> < destination_state > <value>
<transitions> ::= <transition_line> \n <transitions> | <transition_line>