

Github <https://github.com/filip-x/FLCDLab3/tree/master/L5>

BNF of input file:

S is a string without spaces

$A = S, A \mid S$

$E = S, E \mid S$

start = S

finalState = S, finalState  $\mid$  S

oneTransition = S,S,S,\n

Transitions = oneTransition, Transition  $\mid$  oneTransition

```
Q1 Q2 Q3 // all states (A)
a b c ( Alphabet)
Q1 //Initial state
Q3 // Final State
Q0 a Q1 // Transitions
Q0 b Q1
Q1 c Q2
Q2 a Q2
```

#### Transforming file into FiniteAutomata:

- With the help of the FiniteFileConverter's static method that takes a file as an argument and reads it, and according to the specification, it turns it into a finite automata obj.
- With the help of the FiniteAutomata obj that provides a "check" on the received string as argument, it returns whether it matches the DFA or not (true or false)