<https://github.com/AndreiG23/FLCD>

FA Documentation

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***Finite Automata***

Finite automata Was implemented as a class with the following fields:

- states: list of states

- alphabet: list of alphabet symbols

- initial: the initial state

- finals: list of final states

- transitions: represented with a dictionary where the keys are (source\_state, symbol) and the value is the target state / list of states

The FA is read from a file with the following structure:

file = states NEWLINE

alphabet NEWLINE

initial NEWLINE

finals NEWLINE

transitions states = state {SPACE state}

alphabet = symbol {SPACE symbol}

initial = state

finals = state {SPACE state}

transitions = transition {NEWLINE transition}

transition = state SPACE symbol SPACE state

state = letter {digit}

symbol = letter | digit | specialCharacter

letter = “a” | … | “z” | “A” | … | “Z”

digit = “0” | “1” | … | “9”

specialCharacter = “+” | “\_” | “-“ | …