https://github.com/Nyesteban/FLCD-lab-2

In the FiniteAutomaton class, there is a value that determines if the FA is deterministic, the initial state, a list of final states, a list of all states, a list of the alphabet and a map containing the transitions.

The readFromFile function reads the FA from file and fills the fields with the correct data. It also checks if the FA is deterministic using the checkIfDeterministic function.

There are getters for whether or not the Fa is deterministic, the initial state, the list of final states, the list of states, the list of the alphabet and the transitions, as well as a special writer function for the transitions.

The acceptsSequence function checks if a sequence is accepted by the FA, mainly using the initialState, finalStates and transitions values.

non\_zero\_digit = 1|2|...|9

digit = 0|1|…|9

number = non\_zero\_digit{digit}

letter = a|b|...|z|A|B|…|Z

character = letter|digit

firstLine = {character} {"," {character}}

secondLine = {character}

thirdLine = {character} {"," {character}}

fourthLine = character {"," character}

transition = {character} " " character " " {character}

transitions = transition "\n" {transition "\n"}

inputFile = firstLine "\n" secondLine "\n" thirdLine "\n" fourthLine "\n" transitions