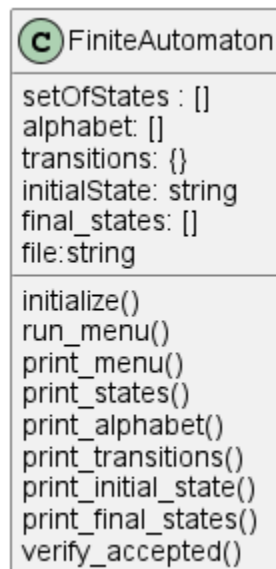


FiniteAutomaton

Menu:

```
0.Exit
1.Print set of states
2.Print alphabet
3.Print transitions
4.Print initial state
5.Print set of final states
6.Verify accepted
>>
```

Class diagram:



`initialize()` - reads the given file and sets the states, alphabet, transitions, initial and final state

`verify_accepted()` - reads the input from the users and prints true if the sequence is accepted, false otherwise

File example:

1	p, q, r
2	$0, 1$
3	p
4	r
5	$(p, 0) = q$
6	$(q, 1) = q$
7	$(p, 1) = r$
8	$(q, 0) = r$

letter ::= "A" | "B" | ... | "Z" | "a" | ... | "z"

digit ::= "0" | "1" | ... | "9"

character ::= 'letter' | 'digit'

string ::= char{ string }

operators ::= "="

separators ::= "(" | ")" | ","

alphabetElement ::= string

alphabet ::= { alphabetElement } +

state ::= string

states ::= { state } +

initialState ::= state

final_states ::= { state } +

transition ::= "(state "," state)" = alphabetElement

transitions ::= { transition } +

Fa.in ::= states alphabet initialState final_states transitions