FiniteAutomator:

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

identifier indentifier identifier

```
Domain: F = { f | f is a finite automation class containing several Vector<string>:
states, alphabet, transitions, initialStates, finalStates}
ScanFile(f, path) // the constructor
      Pre: f \in F, path is a string
      Post: file found at path is loaded into states, alphabet, transitions,
initialStates and finalStates
Run(f): // function that runs the console menu, displays required text
      Pre: f \in F, f->ScanFile() has been called at least once
      Post: true
CheckWord(f, word):
      Pre: f \in F, word is a string
      Post: CheckWord <- true, if word can be formed with the given automata
                           false, otherwise
      BNF FA.in formation:
      identifier ::= letter | letter{letter}{digit}
      letter ::= "A" | "B" | . .. | "Z"
```

multipleIdentifier = identifier | multipleIdentifier identifier

multipleTransition = identifier indentifier | multipleTransition

multipleLetter = letter | multipleLetter letter

file ::= statesString alphabetString transitionsString initialStatesString finalStatesString

states: q1 r

statesString ::= "states: " multipleIdentifier

alphabet: a b c d e f g h i j k l

alphabetString ::= "alphabet: " multipleLetter

transitions: q1 a r q1 b r

transitionsString ::= "transitions:" multipleTransition

initialstate: q1

initialStatesString ::= "initialstate:" identifier

finalstate: r

finalStatesString ::= "finalstate:" multipleIdentifier