DOCUMENTATION

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FA:

The FA class is a finite automate which contains states, an alphabet, transitions, an initial state and a final state. They are read from file

Functions:

- readFromFile() reads the file and initializes the states, alphabet, transitions, the initial state and the final state
- -printStates() prints the states
- -printInitialState() prints the initial state
- -printAlphabet() -prints the alphabet
- -printOutputStates()- prints the alphabet
- -print Transitions() -prints the transitions
- -checkAccepted(String word)- checks if a string is accepted by the FA
- -getNextAccepted(String word) gets the substring of the input accepted by the FA

Transitions

This class is used for representing a transition. It has 3 fileds: from, to and label.

FA.in file format written in EBNF:

```
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 = "states"":"{character}{","character}
```

```
secondLine ="alphabet"":"{character}{","character}
thirdLine = "initial states" ":"{character}
fourthLine = "final state" ":"{character}{","character}
transition = {character} " " {character} " " {character}
fifthLine = "transitions" ":" transition {"," tansition}
inputFile = firstLine "\n" secondLine "\n" thirdLine "\n" fourthLine "\n" fifthLine "\n"
```