Theoretical Computer Science, Spring 2017
University Innopolis

Assignment 1: FSA Simulator
Group: BS3-2
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My solution contains files:
__init__.py - common logic, creation of objects of other types and transfering info between them.
InputReader.py - class for getting input info from file and formation it for Automaton (description and tests).
Automaton.py - class with the main logic: it gets description info and parse it in inner fields and also it checks test strings.
OutputWriter.py - writes results in output file.
input.txt - input file with Automaton descriprions and with test cases.
output.txt - output file with results.

I have choose idea with matrix of transitions between states. On the intersections we have alphabet elements for making transitions.
For example matrix for the second automata:

		where I want to get			
		q_0	q_1	q_2	q_3
current state	q_0	bc	a		
	q_1	bc		a	
	q_2	c		a	b
	q_3				abc

Class *Automaton* in method *parse_transitions_to_matrix* fills inner matrix.

Description of testing process: I have used test cases provided in input file.