Overview:

Simulates a Nondeterministic Finite Automata. It includes an implementation for creating an NFA from standard input and a getDFA() function that converts the NFA to a DFA.

Usage:

Compile the driver class with javac fa/nfa/NFADriver.java.
To run the driver with the test files supplied use java fa.nfa.NFADriver ./tests/tc0.txt. Repeat previous step with tc1-tc10.

The format for input is based on the formal definition of NFA being the 5 tuple (Q, Sigma, delta, q_0, F) where Q is the set of states, Sigma is the set of input symbols, delta is the transition function, q_0 is the initial state, and F is the set of final states. The first n lines before the space represent the members of Q. The first line following the space represents the transitions, and the following m lines will be evaluated to see if they are valid input into the NFA.

The output is the corresponding DFA with the boolean evaluation of the NFA inputs.