// Constructor with a purpose.

FA(vector<char> Alphabet, vector<string> StateNames, vector<vector<char>> ValidTransitions, vector<vector<int>> NextStateIndeces, vector<vector<int>> IsInitialFinal)

{

// Initialize alphabet. Note that alphabet implicitly contains lambda ('\_').

alphabet = Alphabet;

// Initialize state vector array. Note that all values are NULL.

state = vector<State>(StateNames.size());

// Now initialize each state.

for (int i = 0; i < state.size(); i++)

{

// Incomplete constructor.

state[i] = State(StateNames[i]);

// The completed version would look something like

// state[i] = State(StateNames[i], ValidTransitions[i], NextStateIndeces[i], IsInitialFinal[i][0], IsInitialFinal[i][1]).

}

}

Edit

return FA(); statement in CreateFAFromFile() method and use

return FA(alphabet, stateNames, validTransitions, nextStateIndeces, isInitialFinal) instead.

Also, add State() {} to the state class to ensure that the program compiles properly.