Andrew Sinn

Project 1 Write-up

For my tokens, I used the alphabet and numbers mixed together for the state declaration token. I also made the symbol for state declaration and the symbol for accepting state a token. All input in apostrophes counted as a single token. The comma and the semi colon were also tokens to define if the state had more transitions or if the state had no more transitions. All comments and whitespace were ignored. I generated my Scanner using C#Lex.

I used this grammar to parse the DFA (provided in Lecture):

DFA --> state_decl_list | E

state_decl_list --> state_decl state_decl_list | entry state_decl_list | E

state_decl --> IDENT state_type trans_list

state_type --> : | @

trans_list --> trans trans_list_tail | E

trans_list_tail --> , trans trans_list_tail | E

trans --> STRING IDENT

All program files are: DFAGen.cs, DFAGenerator.flex.cs, DFAParser.cs, and Token.cs.

DFAGen.cs has the Main method. Preferences for command line arguments are empty by default.