

Assignment 1

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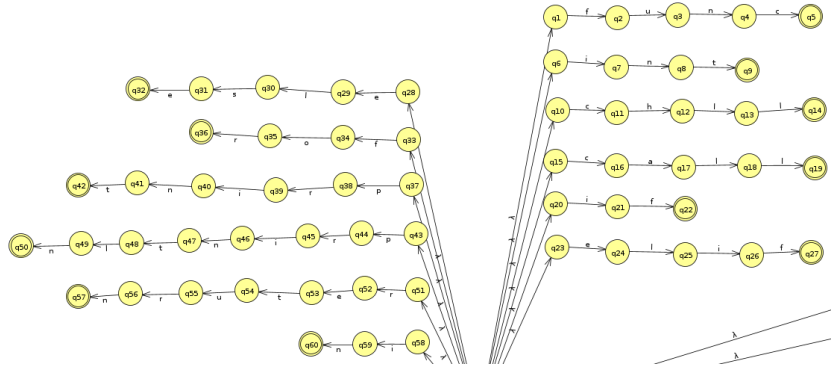
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1 NFA

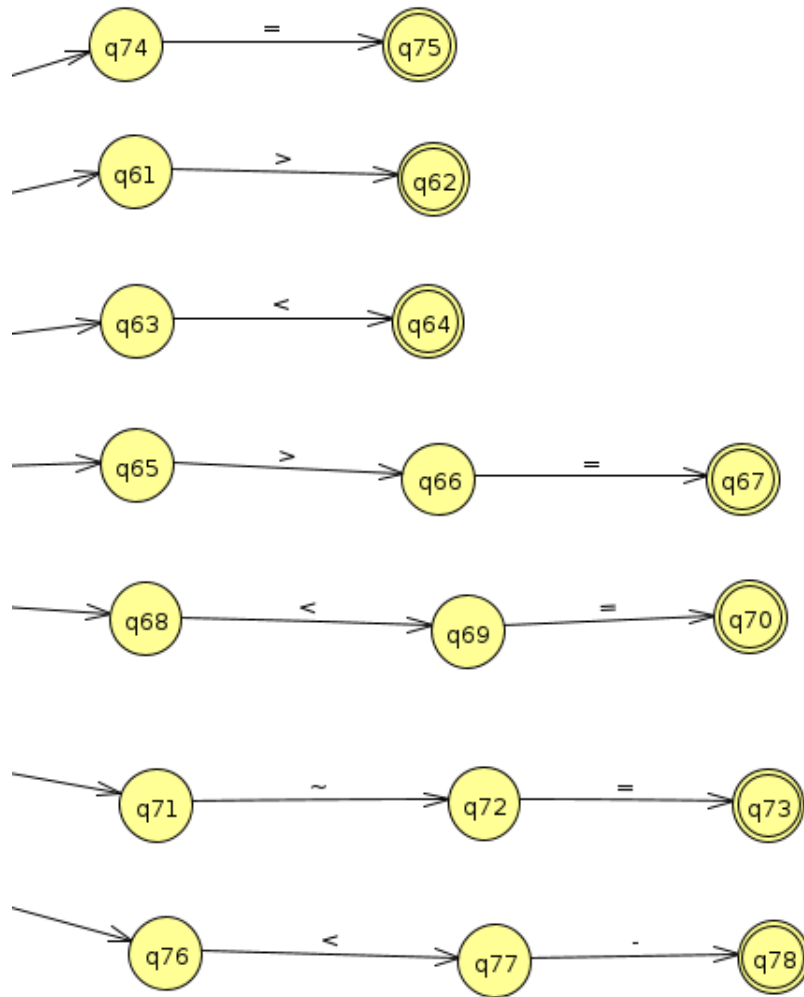
NFA was constructed first so that it can be converted to DFA.

These are the following snapshots taken from NFA.

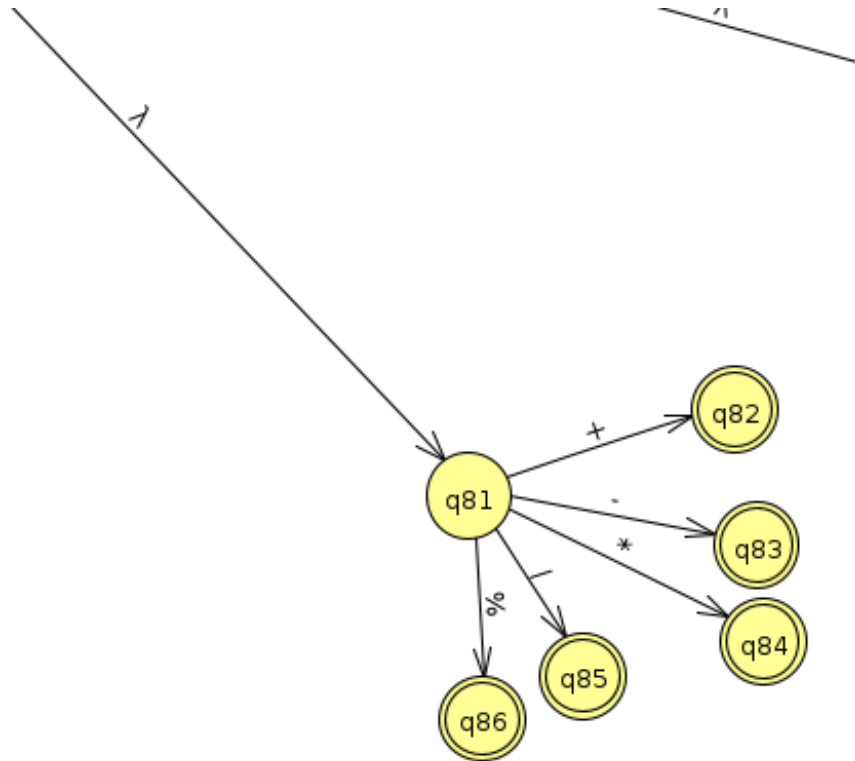
1.1 keywords



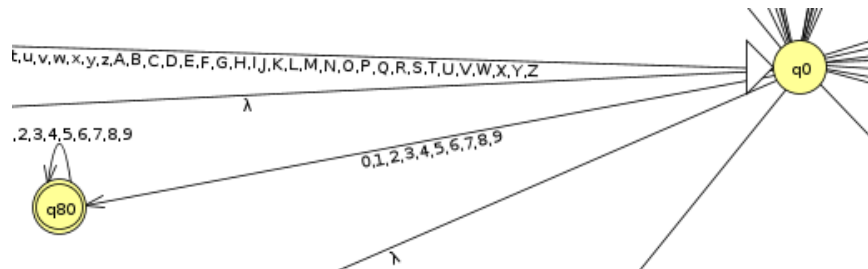
1.2 relational operator



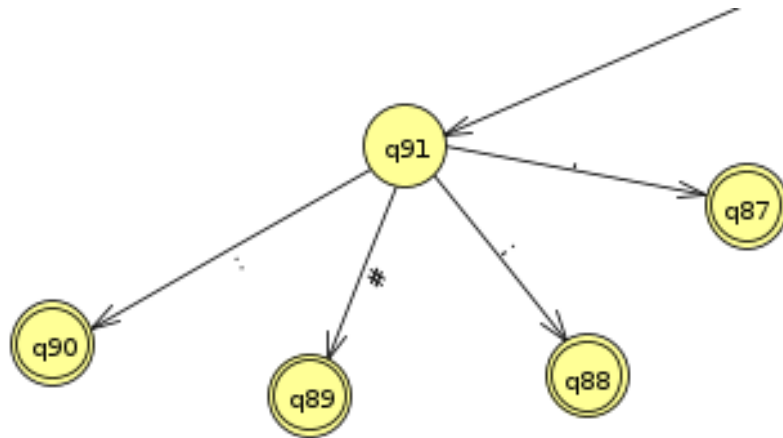
1.3 mathematical operators



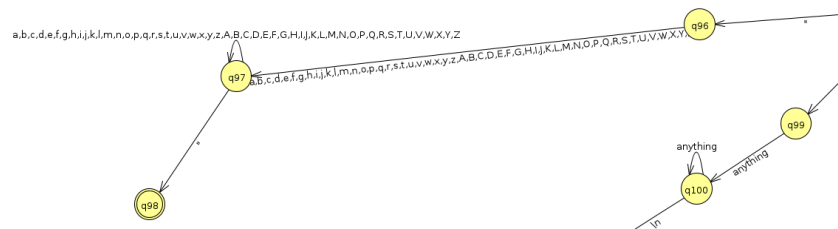
1.4 numeric



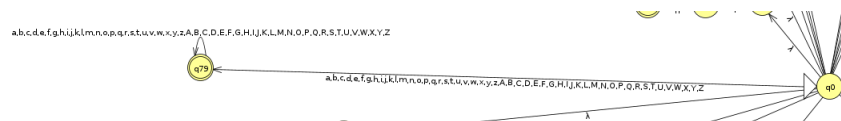
1.5 special character



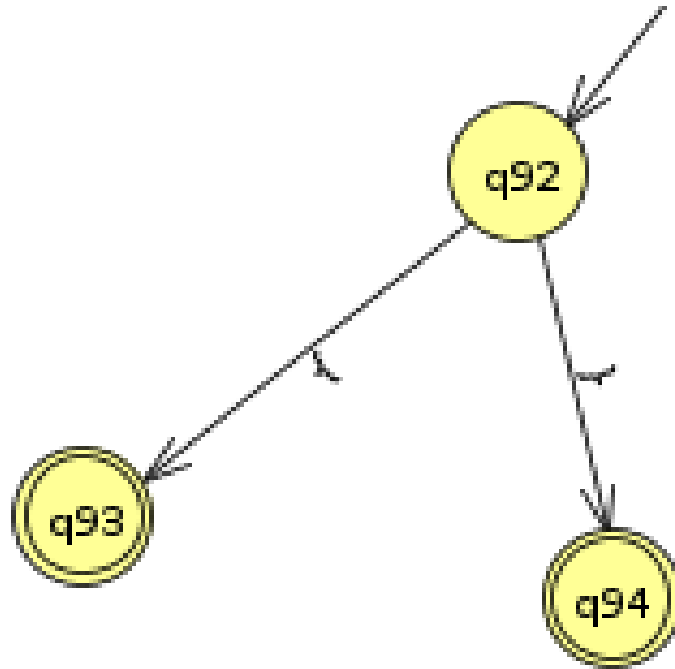
1.6 string



1.7 identifier



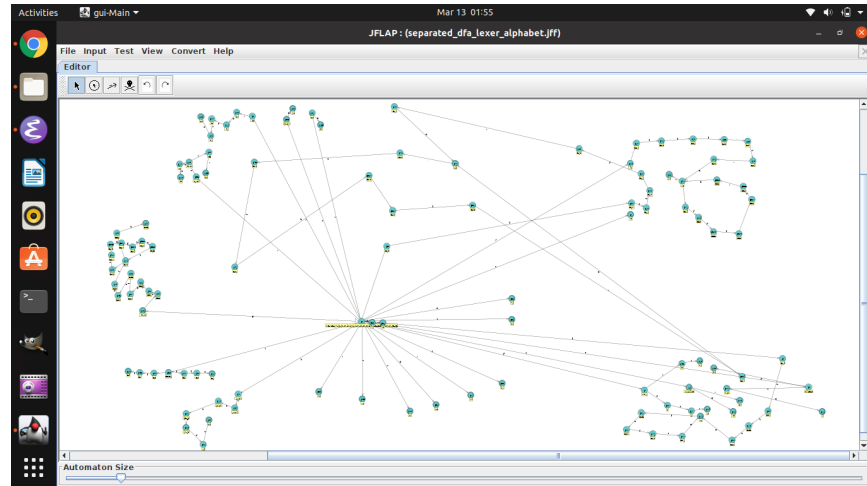
1.8 block



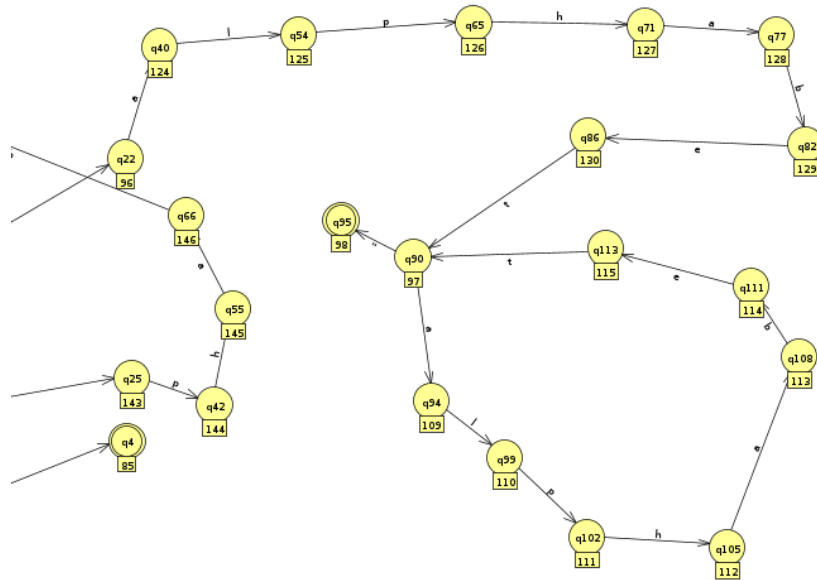
2 DFA

The NFA was very large size with more than 100 states. So it became quite impractical to convert it into DFA. Therefore, I have to use the JFlag tool to convert it into DFA. Its output is given below.

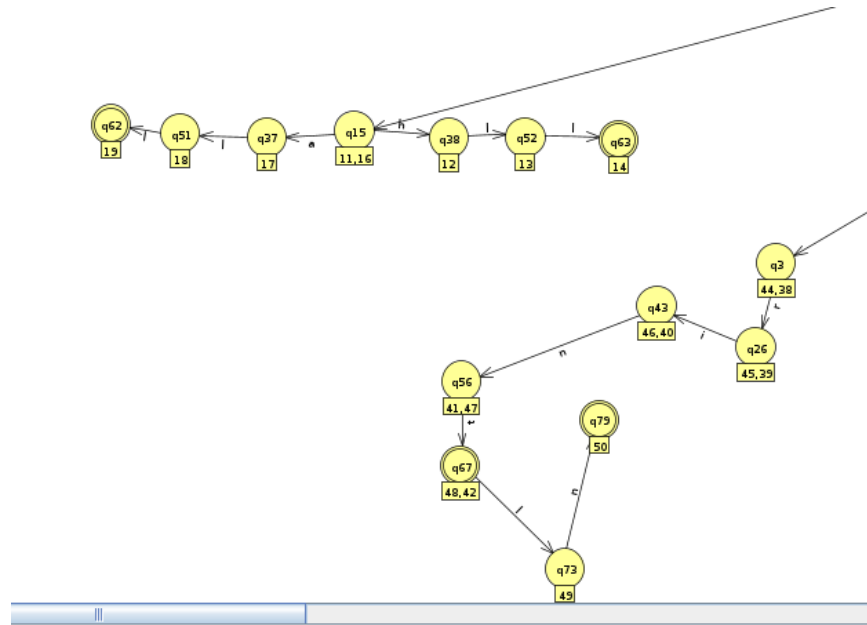
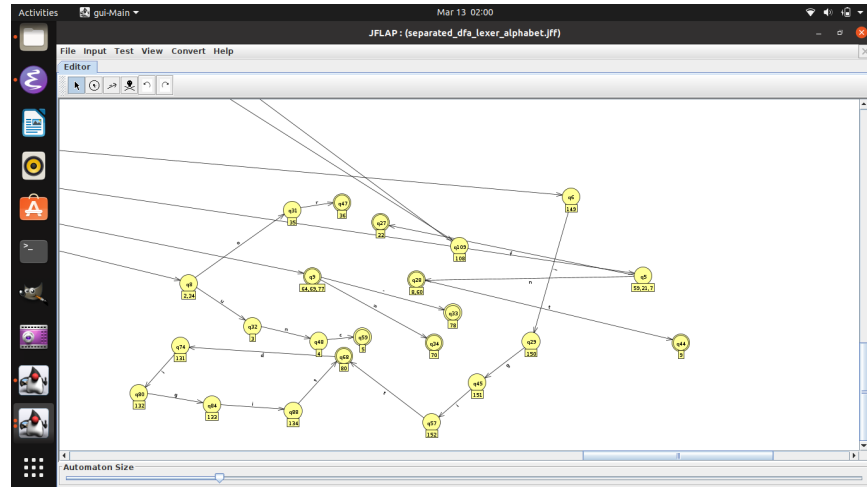
2.1 DFA



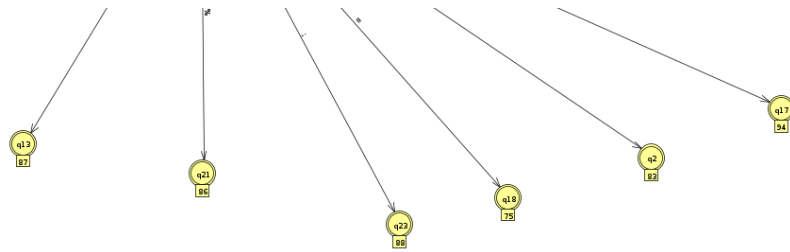
2.2 comment



2.3 keywords



2.4 operators



2.5 string

