Regular Grammar to DFA

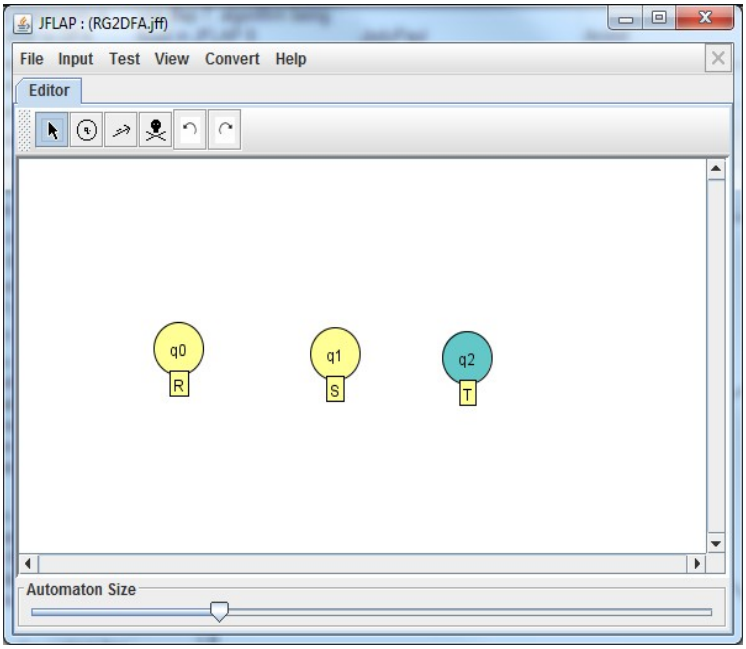
To convert the following Regular Grammar to a DFA,

R → cS
R → aR
R → bR

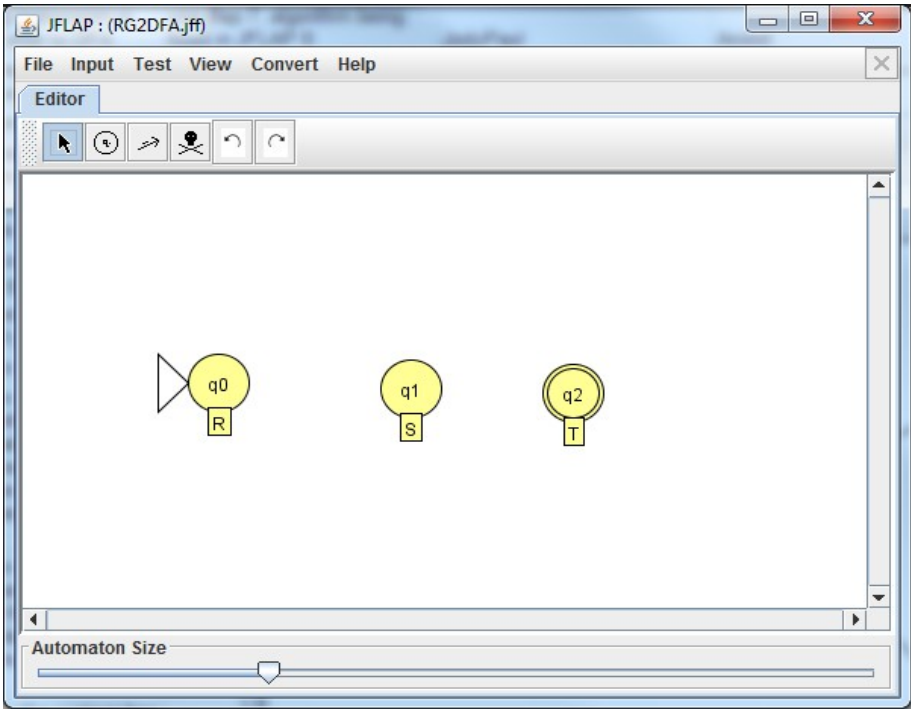
S → aT
S → cS

T → null

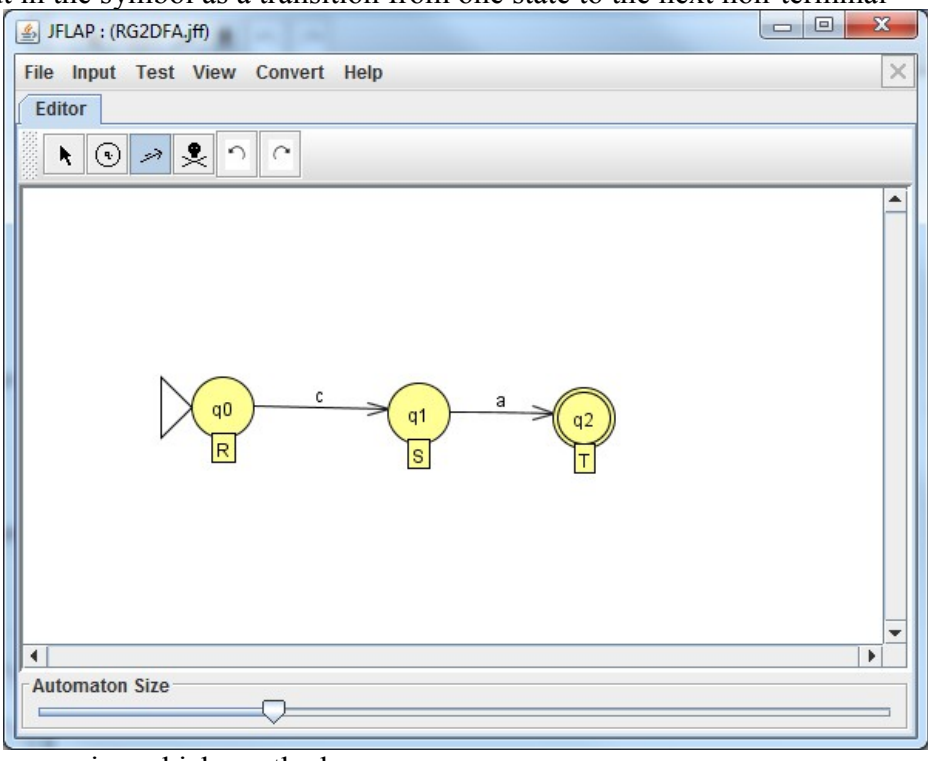
We create a state for each of the non-terminal production rules and label them accordingly.



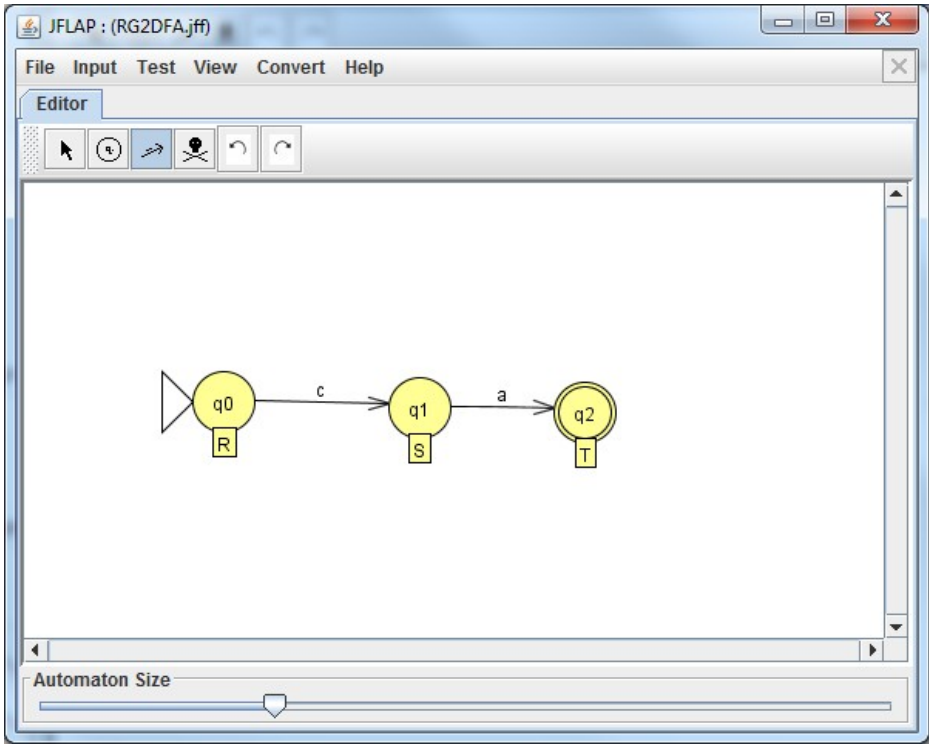
Then, set the top most production rule as the initial state, and the one which reduces to null to the final state.



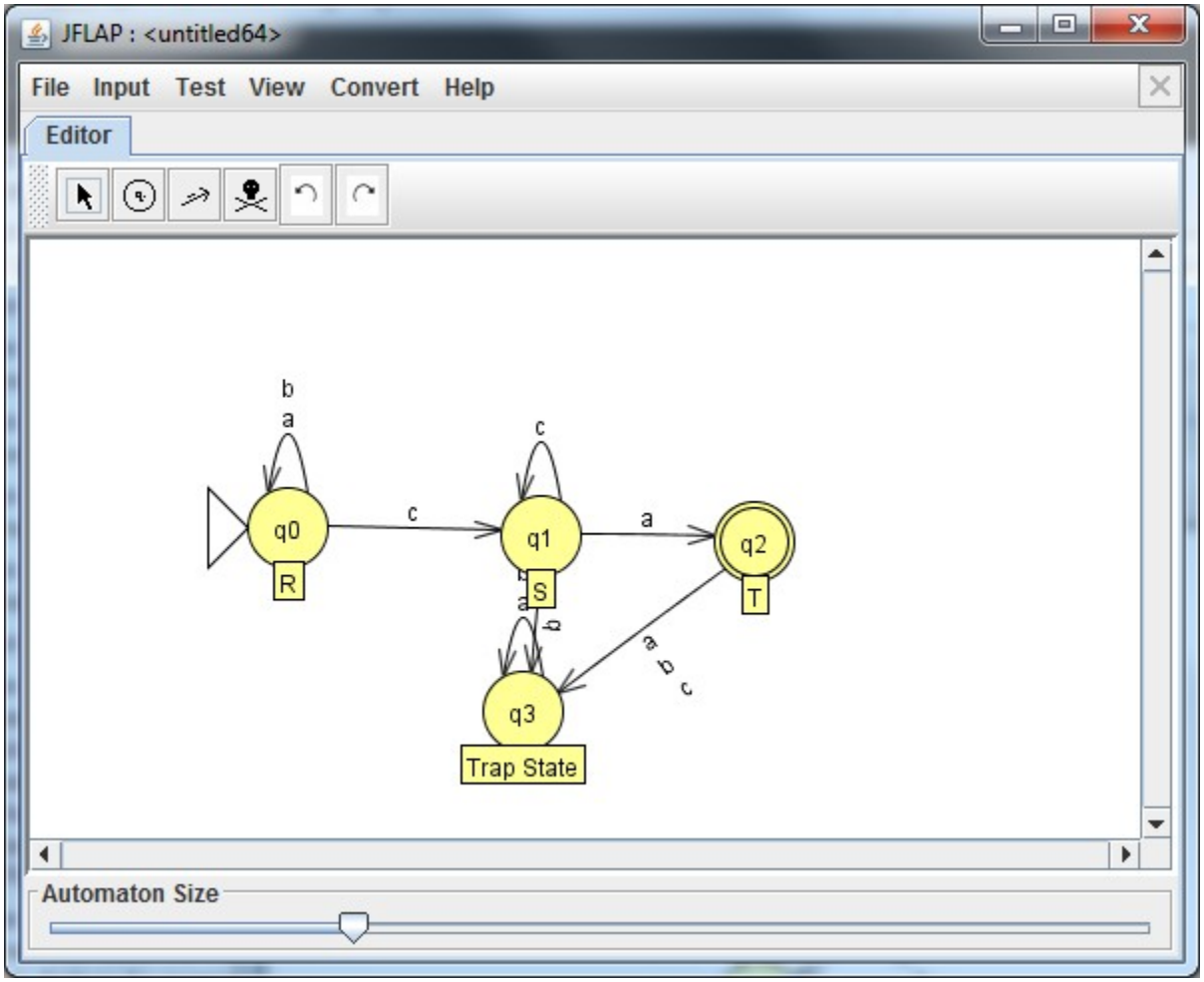
For each left put in the symbol as a transition from one state to the next non-terminal



Then, put in the recursion which are the loops.



To be complete, put in a trap state


JFLAP : <untitled64>
File Input Test View Convert Help
Editor
b
a
c
q0
R
c
q1
S
a
q2
T
a
b
a
b
c
q3
Trap State
Automaton Size