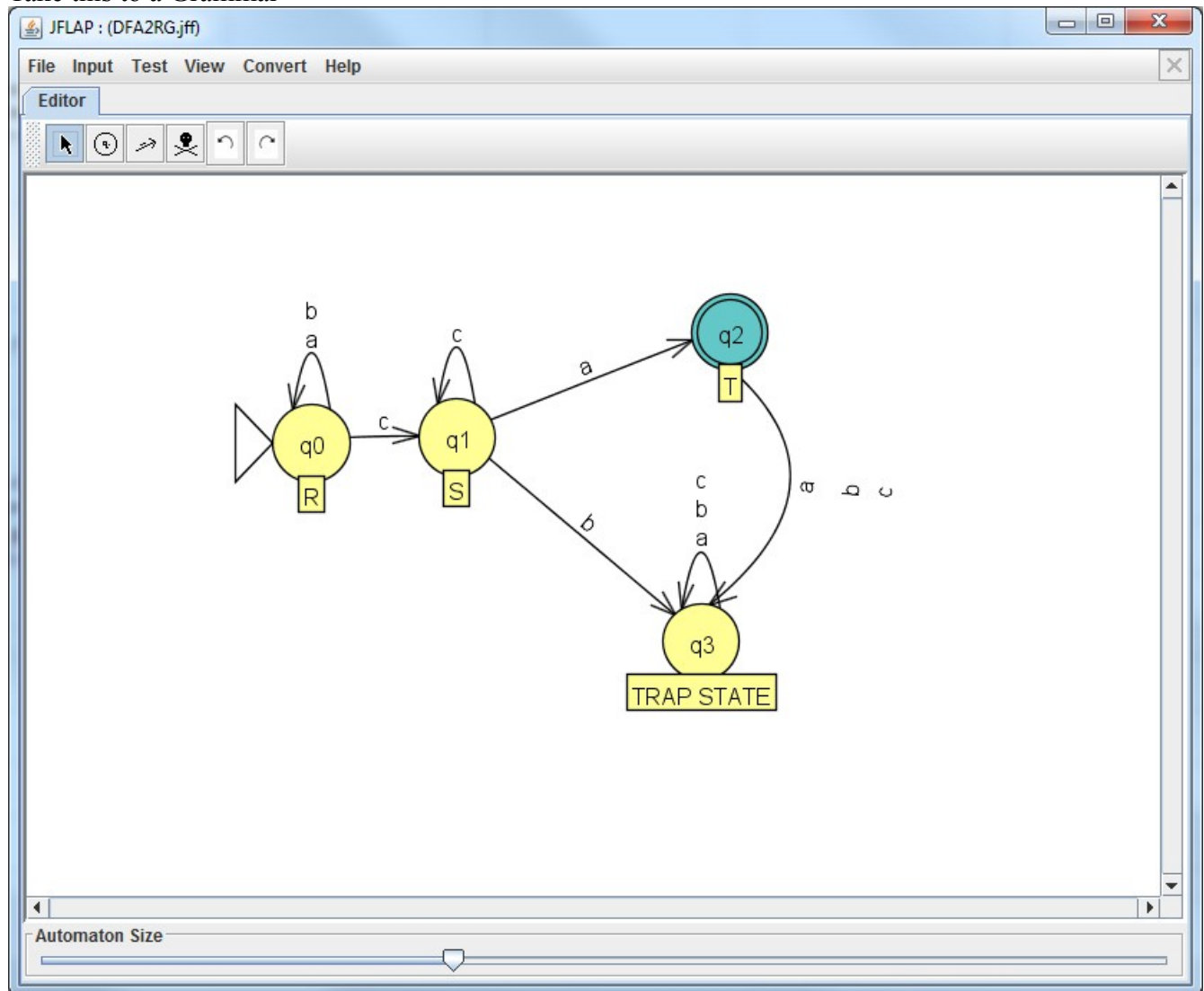


DFA to Grammar

Take this to a Grammar



State q0 labeled R we have the following (\rightarrow is pronounced reduces to)

- $R \rightarrow cS$
- $R \rightarrow aR$
- $R \rightarrow bR$

- $S \rightarrow aT$
- $S \rightarrow cS$

$T \rightarrow \text{null}$

Using JFLAP

JFLAP : (DFA2RG.jff)

File Input Test View Convert Help

Editor Convert to Grammar

Hint Show All What's Left? Export

```

    graph LR
      start(( )) --> q0((q0))
      q0 -- a --> q0
      q0 -- b --> q1((q1))
      q1 -- a --> q1
      q1 -- b --> q3((q3))
      q3 -- a --> q3
      q3 -- b --> q1
      q1 -- a --> q2(((q2)))
      q2 -- a --> q2
      q2 -- a --> q3
      style start fill:none,stroke:none
      style q2 fill:#333,color:#fff
  
```

LHS	RHS
C	→ bC
S	→ bS
B	→ λ
C	→ cC
A	→ cA
C	→ aC
S	→ aS
A	→ bC
A	→ aB
S	→ cA
B	→ cC
B	→ bC
B	→ aC

Table Text Size