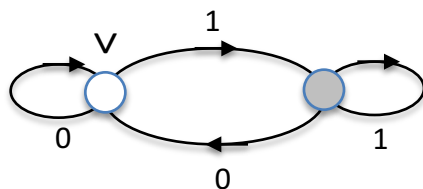


CS 302
QUIZ 9

3 December, 2015

QUESTION



(a) (5 pts) Write down a **right-linear grammar** that generates the language accepted by the DFA above

ANSWER

$$S \rightarrow 0S \mid 1A \quad A \rightarrow 0S \mid 1A \mid e$$

(b) (5 pts) Write down a **left-linear grammar** that generates the language accepted by the DFA above

$$S \rightarrow S1 \mid A1 \quad A \rightarrow S0 \mid A0 \mid e$$