CS 1622 – Homework 2
Due: Tuesday, February 27, 2018 at the start of class

Please submit a typewritten document. I’d prefer you draw your DFA on the computer, but if this is a challenge, you may hand draw them neatly on the paper by hand.

1.) Construct the DFA of LR(0) items for the following grammar:

\[
\begin{align*}
A &\rightarrow a \ B \mid a \ D \\
B &\rightarrow b \ C \ b \\
C &\rightarrow \epsilon \mid f \\
D &\rightarrow d
\end{align*}
\]

2.) Build the SLR parse table for the above grammar. Show the Follow sets you built to determine the reduce actions.

3.) Show an SLR parse for the input:

a b b

Show the stack, input, and actions in an action table as was done in the slides.