

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:

$$A \rightarrow a B \mid a D$$
$$B \rightarrow b C b$$
$$C \rightarrow \varepsilon \mid f$$
$$D \rightarrow d$$

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.