

ECE 573

Problem Set 4: LR(1) parsers

1. Build the CFSSM for this grammar. Is it an LR(0) grammar? Why or why not?

1. $S \rightarrow ABx\$$
2. $A \rightarrow Ay$
3. $A \rightarrow z$
4. $B \rightarrow Bx$
5. $B \rightarrow w$

2. Build the LR(1) machine for the grammar in the previous problem. Is this an LR(1) grammar? Why or why not?
3. Show the steps that a parser would take (as we did in class) when parsing the string “ $zywx$ ”