CSC 254
Assignment 2
September 25th, 2003
Due in class on Thursday, October 2nd, 2003

1. (25 pts) Consider the grammar

 $S ::= Aa \mid bAc \mid Bc \mid bBa$

 $A\,::=\,d$

 $\mathbf{B} ::= \mathbf{d}$

(a) Show that the grammar is not LALR(1) (Hint: Construct the LALR states and show any potential reduce-reduce conflict. Recall that LALR(1) (look-ahead LR) states can be obtained by merging LR(1) states with the same core (i.e., α)). SHOW YOUR WORK.