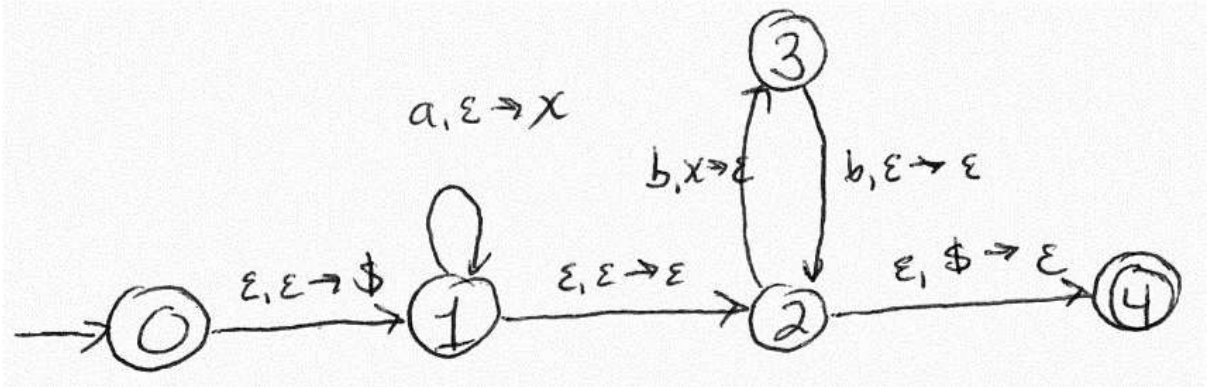


Theory of Computation, CSCI 438 spring 2022  
Pushdown automaton to a context-free grammar, pages 119-123  
Feb. 28

- Using the construction described in class and given in Lemma 2.21 of the text, convert the following pda for  $L = \{a^n b^{2n} \mid n \geq 0\}$  to a context-free grammar



- Using the construction described in class and given in Lemma 2.21 of the text, convert the following pda for  $L = \{a^n b^{2^n} \mid n \geq 0\}$  to a context-free grammar.