Solutions to Day 25 in-class quiz

- 1. (K x ($\Sigma \cup \{\epsilon\}$) x Г *) x (K x Г*)
- 2. $\{w \in \{a,b\}^* : \#_a(w) = \#_b(w) \text{ and for every prefix x of } w, \#_a(w) \ge \#_b(w) \}$ Another way to say it: Start with BAL, substitute a for (, b for)
- 3. Replace c; ε; ε by ε; ε; ε

It *does not know* when to start popping. It is non-deterministic. When it gets to the end of the string, the stack is not empty. This was too complicated for such a short quiz; I gave full credit as long as you did not circle the empty string.