CSCI 361: Exercise # 7   **Your Name:** _____

Due: Tuesday, Sep 30, in class

Assigned reading for this lecture:
- Sipser Third Edition Chap 2.2 (Push-down Automata)

Questions:

1. In Definition 2.13, the transition function of a push-down automata is defined as

$$\delta: Q \times \Sigma_\varepsilon \times \Gamma_\varepsilon \longrightarrow \mathcal{P}(Q \times \Gamma_\varepsilon)$$

Describe this transition informally in English using the stack and "push" and pop" terminology.

2. Consider the PDA in Figure 2.15. What is the significance of the $ tape symbol?