

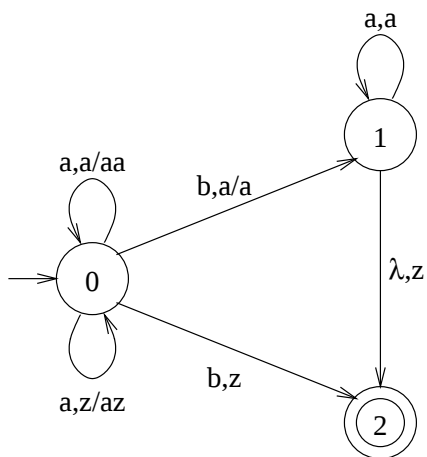
Automata Theory: Solutions 9

				X			
				X		X	
				X		X	
				X		X	
				X		X	
				X		X	
				X		X	
		X		X		X	
		X		X	X	X	
		X	X	X	X	X	
X		X	X	X	X	X	
X		X	X	X	X	X	
	4	5	6	7	8	9	10
	grades						

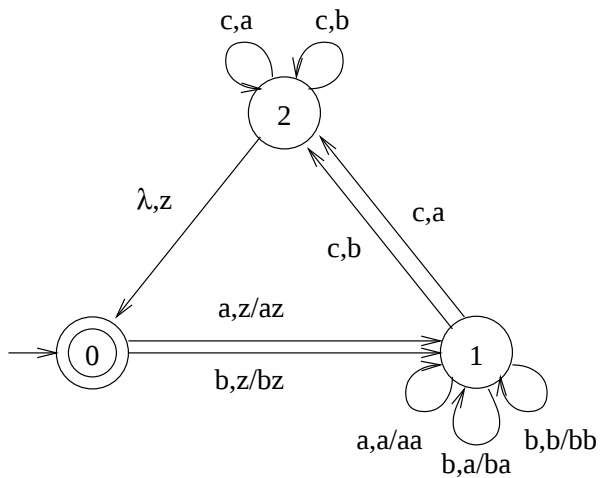
Problem 1

Construct deterministic PDAs for the following languages:

(a) $\{a^n b a^n : n \geq 0\}$



(b) $\{a^n b^m c^{n+m} : n \geq 0, m \geq 0\}$



Problem 2

Construct a nondeterministic PDA for the following language on the alphabet $\Sigma = \{a, b\}$:

$$\{w : w = w^R\}$$

