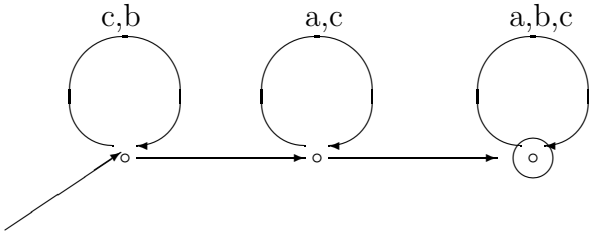
CS 381	**Introduction to Theory of Computing**	Quiz 2
Summer 2000		May 26, 2000

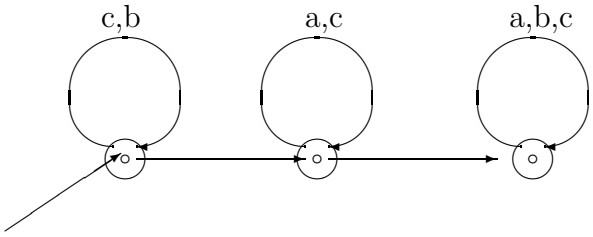
Write your name in the space below. Failing to do so may result in not recording the points you earn for this quiz. **Please notice there are problems on both sides of the paper.**

1. Give the diagram of a DFA M s.t. $L(M) = \left\{x \in \{a,b\}^* \mid \#a(x) = 2k, k \geq 0\right\}$

2. Describe in words the language accepted by the automaton below:



3. Give the complete formal definition of the DFA in problem 2.

4. Give the definition of the automaton in problem 2 using a transition table.

5. What is the language accepted by: