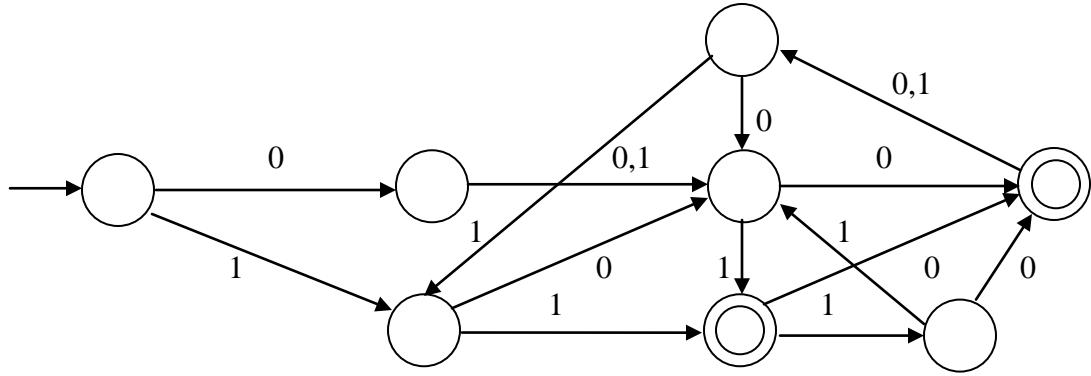


CS 181 Homework 2
Regular and context-free languages
Due not later than *Thursday, August 3, 2017*

Problem 1. Minimize:



Problem 2. $L = \{ a^n b^m c^{2(n+m)}; n \geq 0, m \geq 0 \}$

Find if L is

- a) a regular language;
- b) a context-free language.

In case (a), build a finite automaton A such that $L(A) = L$.

In case (b), build a PDA D and a formal grammar G such that $L(D) = L(G) = L$.

Problem 3. Is any finite language regular? Prove that your answer is correct.