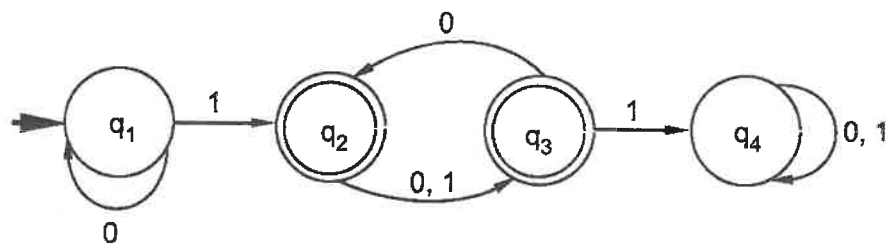


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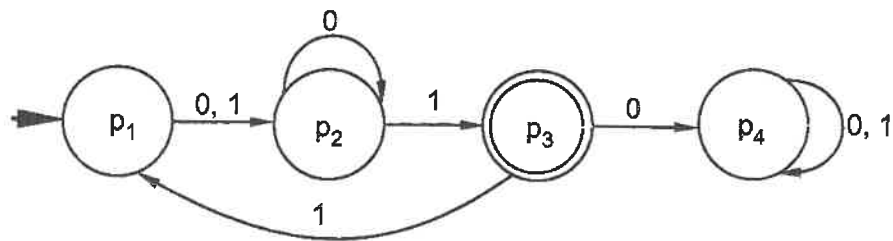
Homework Assignment # 4

Due: March 13, 2018

- 20 pts. 1. Using formulas for $r_{i,j}^k$ find a regular expression for the following dfa:



- 10 pts. 2. Problem 1, p. 99 of the textbook.
- 10 pts. 3. Problem 4, p. 99 of the textbook
- 10 pts. 4. Determine a right-linear grammar G for the language accepted by the following dfa:



- 20 pts. 5. Find the dfa that accepts the intersection of languages accepted by dfas from problem 1 and problem 4. Use the construction based on pairs of states.
- 15 pts. 6. Problem 6a, p. 126 of the textbook.
- 15 pts. 7. Problem 6f, p. 126 of the textbook.