

COSC 341 Programming Project #2.5 More LISP

Distributed: 19 February 2009

Due: 3 March 2009

Do this project before you do Project #2.

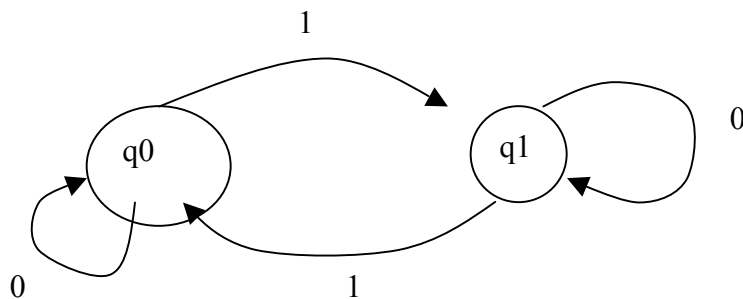
This project score is worth half of Project #2's score.

Implement the DFA simulation (given in Scheme on pp 537-8) in Common Lisp (or any other functional language, including other dialects of Lisp other than Scheme).

You should assume the DFA starts in the first state given in the DFA specification.

Running the program

(1) Run the DFA pictured here following input sequences and accept states:



Input sequence	Accept states
'(1)	'(q0)
'(0 1)	'(q0)
'(1 1 1)	'(q1)
'(1 1 0)	'(q0 q1)

(2) Run the DFA given on p 538 on the following input sequences and accept states:

Input sequence	accept states
'(1)	'(q0)
'(0)	'(q2 q0)
'(0 1 0)	'(q0)
'(1 1 0)	'(q0 q1 q2)
'(0 1 1 0 1)	'(q0) ; given on page 538

Turn in:

- Hard list of program
- Hard copy screen shot first DFA running on inputs.
- Separate hard copy screen shot of second DFA running on inputs.
- Email versions accepted ONLY on the due date itself.

Grading:

Meets specifications	40%
Meets style standards	5%
Code elegance	5%

No late projects accepted!!