CS 373: PROBLEM SET 1 CS THEORY OF COMPUTATION

Assigned: August 29, 2013 Due on: September 5, 2013

Instructions: This homework must be solved individually on www.automatatutor.com and the solutions will be graded automatically by the tool.

Recommended Reading: Lectures 1 and 2 and website http://www.automatatutor.com

In this homework assignment you are required to use the tool AutomataTutor to draw Deterministic Finite Automata (DFAs) for various languages.

To access the homework:

- 1. go to www.automatatutor.com; please use either Chrome or Safari
- 2. sign up with your Illinois email (<netid>@illinois.edu);
- 3. on the left tab click on
 - (a) *Practice*: these exercises are to help get familiar with the tool and do not contribute to the final grade.
 - (b) Homework Part A: this section has 4 problems that must be solved. You can attempt these problems multiple times, and use the feedback from the tool to fix your solution to your satisfaction.
 - (c) Homework Part B: this section contains one problem that can be attempted only once.

Part A: Problems with Multiple Attempts

Click on Homework Part A. You can attempt these 4 problems multiple times and your grade will be computed as follows. For each problem you will receive: 0.5 point for trying the problem at least once, and an *additional* 1 point for successfully solving the problem.

4 problems (1.5 points each, 6 points total)

Part B: Problem with Single Attempt

Click on Homework Part B. You will only see one problem. You can attempt this problem only *once* and you will receive up to 4 points based on the quality of your solution.

1 problem (4 points total)