

Homework 2

Due: 2014.12.15 in class

Problem 1 Design a finite automaton that accepts all strings of 0's and 1's not containing the substring 011.

Problem 2 Design a nondeterministic finite automaton that accepts all strings of 0's and 1's containing either three consecutive 0's or three consecutive 1's.

Problem 3 Write a regular expression denoting the set in problem 2.

Problem 4 Write a regular expression denoting all strings of 0's and 1's with no more than three consecutive 1's.