Assignment 2

Automatic Conversion from RE to FA

Due October 19, Thursday, 2017

1. Consider the following regular expression a b a | b* a (ε | b).
   (a) (50%) Construct the nondeterministic finite automaton for the regular expression using the Thompson's construction algorithm.
   (b) (50%) Convert the nondeterministic finite automaton in problem (a) into a deterministic finite automaton using the subset construction algorithm.

To turn in this assignment, upload a pdf file hw2.pdf that contains the solutions for this assignment to the eCourse site.