

Assignment 3

Conversion from Regular Expressions to Finite Automata Due Wednesday, March 31, 2021

1. (10%) Construct the expression tree for the following regular expression
 $(a \mid b)^* a b \mid b a (b \mid \epsilon)^* a$
2. (40%) Construct a NFA for the regular expression using the Thompson's construction algorithm.
3. (50%) Convert the NFA into a DFA using the subset construction algorithm.

To turn in this assignment, upload a pdf file hw3.pdf that contains the solutions for this assignment to the eCourse2 site.