

Assignment 1

Regular Expressions Due Monday, March 20, 2017

1. Give the expression tree representation for each of the following regular expressions, and give the set representation for the language at each node of the expression tree.
 - (a) $ab^*a \mid b^*a$
 - (b) $((\epsilon \mid a) b^*)^*$
2. Write regular expressions for the following languages:
 - (a) All strings of a's and b's with no repeated letters.
 - (b) Comments, consisting of a string surrounded by `/*` and `*/`, without an intervening `*/`, unless it is inside double-quotes (`"`).

To turn in this assignment, upload a pdf file `hw1.pdf` that contains the solutions for this assignment to the eCourse site.