

Avi Hirsch

Design and Analysis of Algorithms

Homework: Sedgewick & REs, NFA Simulation & Construction

1. Using Regular Expressions To Specify Strings

- a. ADAAC, BDC, BDAC

2. NFA Construction & ϵ -Transitions

- a.

State	ϵ -Transition to:
0	1, 11
1	2, 5, 9
2	n/a
3	n/a
4	8
5	6
6	5, 7
7	n/a
8	9
9	1, 10
10	13
11	12
12	11, 13
13	(accepting state)

3. NFA Simulation

1. {0, 1, 5}
2. {2, 6}
3. {2, 6, 7, 8, 9}
4. {3, 7}
5. {3, 6, 7, 8, 9}
6. {7}
7. {6, 7, 8, 9}