

CS 442/542 Spring 2021 Quiz 3

1. Use the RE to NFA algorithm to create NFAs that accept the languages specified by the following regular expressions. Follow the algorithm. Do not simplify the NFA.

a. $(01) | 1$

b. $(0^*) | (1^*)$

2. Use the NFA to DFA subset algorithm to build a DFA for the NFA shown on the following page. In the DFA leave the state names as the subsets of states from the NFA.

NFA for Problem 2

