

CS 3800, Fall 2017 (Clinger's section)

Homework 2 (50 points)

Assigned: Wednesday, 13 September 2017

Due: Wednesday, 20 September 2017

1. [9 pts] Give a three-state NFA recognizing the language described by $((a \cup c)^* (b \cup c)^* c b^*)$.
2. [16 pts] Use the subset construction to convert the NFA you gave for the previous question into an equivalent DFA.
3. [10 pts] Do problem 1.31 in the textbook.
4. [10 pts] Do problem 1.32 in the textbook.
5. [5 pts] Do problem 1.38 in the textbook.