Homework 2: Regular Languages and NFAs
Theory of Computation (CSCI 3500)
Total Points: 4

Soft Deadline: Friday, Feb. 26 by 11:59pm
Hard Deadline: Tuesday, Mar. 2 by 11:59pm

Write the solution to each question on its own page.
All questions must be in order.
Your name must be on each page.
Then email me a single PDF file of your solution set.
All assignments not adhering to this will not be graded.

0. Using the mathematical definition of a NFA prove that any NFA M with more than one final state is equivalent to a NFA with a single final state.

1. Give an NFA for the language of binary numbers who is a multiple of three.

2. Using the mathematical definition of an NFA show that any finite language is regular. This time you should give a rigorous proof.