1. Using the construction algorithm (slides CH3.63 to CH3.81) discussed in class, create an NFA for the regular expression:

   \[ x \ ( z * | ( w * x ) \epsilon ) \ y \]

2. Apply the conversion algorithm (slides CH3.82 to CH3.94) discussed in class to create the equivalent DFA for the NFA of problem 1.
CSE244 Homework 1 – Take Home Portion – Due 9/11/17 11:59pm – Fall 2017

NAME:
1. Using the construction algorithm (slides CH3.63 to CH3.81) discussed in class, create NFAs for each of the regular expressions given below:
   
a. \((c (b a)^* | \epsilon)^*\)

b. \((z^* | (w x))^* (x y)\)

2. Apply the conversion algorithm (slides CH3.82 to CH3.94) discussed in class to create the equivalent DFAs for the NFAs of problem 2.