1. Write a regular expression that specifies the language {x | x is a string of 0s and 1s that contains an odd number of 0s}. The shortest string in the language is 0.

2.. Use the RE to NFA algorithm to create an NFA that accepts the language specified by the regular expression (0|1)*11. Follow the algorithm. Do not simplify the NFA.

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

NFA for Problem 3