Homework 1 (DFA and NFA)

Due Friday, Feb 16, 07, at 3:00 PM in Class

(1) Construct (give STD) DFA that accepts

$$L = \{x \in \{0, 1\}^* \mid |x| \text{ is a multiple of 3}\}.$$

(2) Construct (give STD) DFA that accepts

$$L = \{x \in \{0, 1\}^* \mid |x| \le 3\}.$$

(3) Construct (give STD) NFA that accepts

 $L = \{x \in \{0,1\}^* \mid x \text{ contains an even number of zeros or exactly two 1's}\}.$

Note: Next homework is on NFA, equivalence of NFA and DFA, and regular languages.