1.) Write the following regular expressions:
   a.) Binary numbers that are an integer power of 2.
   b.) Valid C/Java integer constants that can be negative or positive, in decimal, octal, or hexadecimal.
   c.) A block comment without nesting (/* to */)

2.) Using Thompson’s algorithm, convert the following regular expression to an NFA (alphabet is {a,b}):

   b?(ab)*bb+

3.) Convert your NFA from question 2 into a DFA using the algorithm from class.

4.) Convert the regular expression from question 2 into a Regular Grammar.

5.) Write a grammar for the language of valid Boolean expressions. The terminals are:

   true, false, &&, ||, !