1. Write regular expressions for the following languages:
   
   (a) Strings over the alphabet \{a, b, c\} with an odd number of bs.
   
   (b) Strings over the alphabet \{a, b, c\} where the first c precedes any occurrence of a.

   (c) Strings over the alphabet \{0, 1\} that represent odd binary integers.

2. (a)-(c) Draw the finite state machines (NFAs) for the languages in 1(a)-(c).

3. Draw the NFA for \(a((b|a^*c)x^*)x^*a\).

4. Convert the following NFA to a DFA:

![Diagram of NFA and DFA](attachment:image.png)