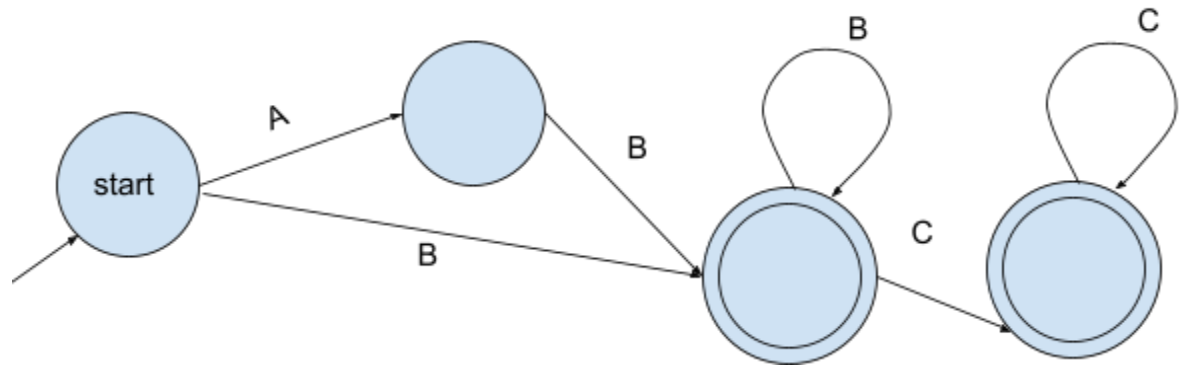Q1.

(a) Write a regular expression for the language "strings that has zero or one A, followed by one or more B, followed by zero or more C"

(i)   A?B+C*

(b) Draw a finite automaton that expresses the language recognized by this regular expression.

(i)

Q2.

(a) Write a regular expression for the language "strings of A's and B's that begin with AB, end with AB and have no other substrings of the form AB".

(i)   ^(AB)$|^(AB)(A*|B*A*)(AB)$

(b) Draw a finite automaton that expresses the language recognized by this regular expression.

(i)