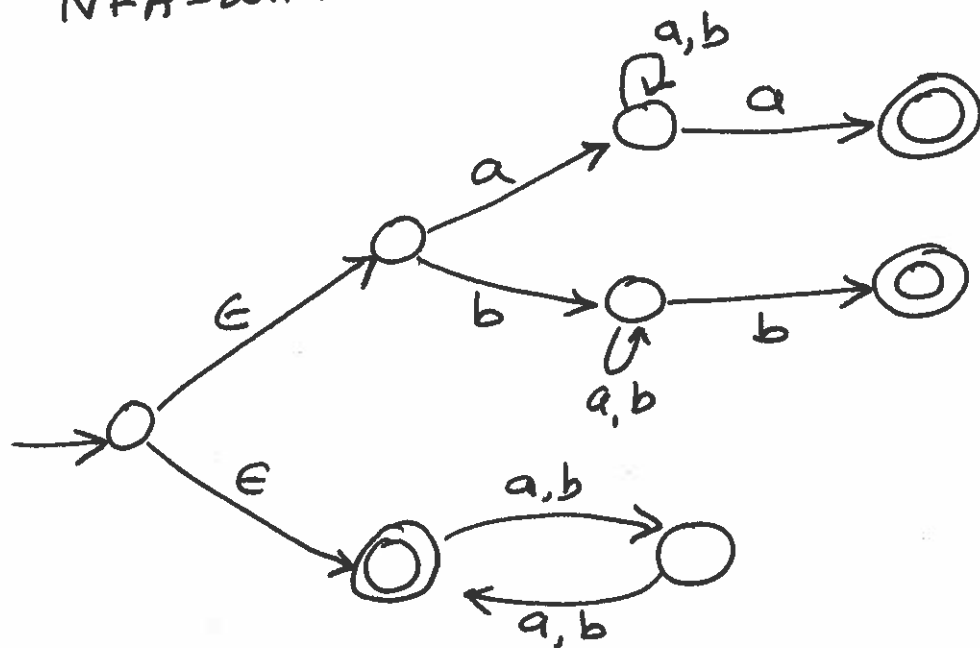① Apply RMET algorithm to the following
NFA-with-ε-transitions:

② Apply NTD algorithm to the output of
problem①

③ Minimized (using MIN algorithm) the
output of problem②

④ Apply RE2DFA algorithm to the
following:

(a) $(ba+b)^* + (bb+a)^*$

(b) $(ab)^* (ba)^* + aa^*$