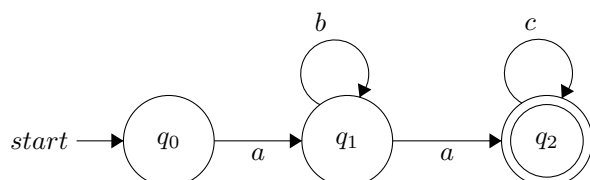


Problem 1

p	$\neg p$	$(\neg p \rightarrow p)$	$(p \rightarrow (\neg p \rightarrow p))$
T	F	T	T
F	T	F	T

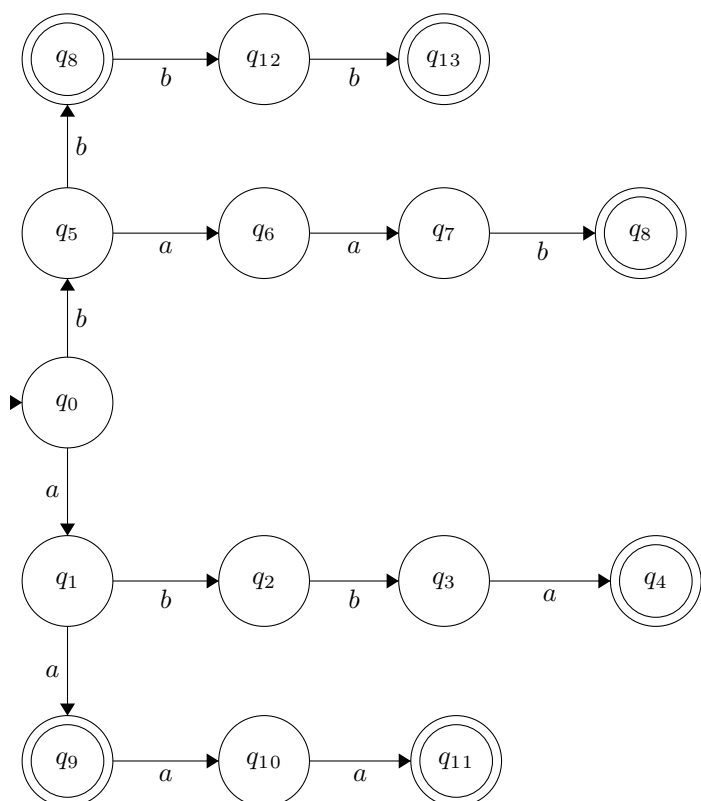
Problem 2

Problem 3



Problem 4

There are a finite number of possible palindromes under $\Sigma = \{a, b\}$. They are: aa, bb, abba, baab, aaaa, bbbb. These can be matched with the following FSM:



Problem 5