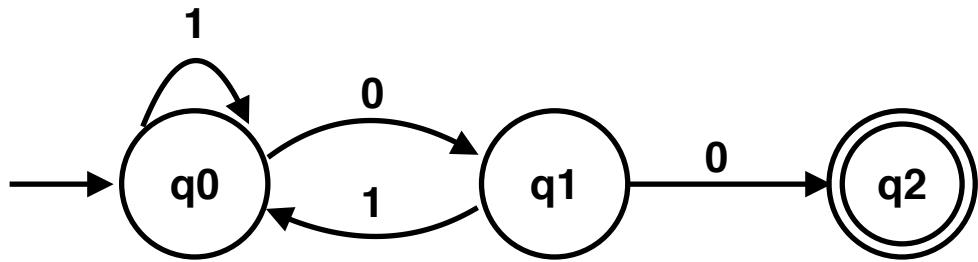
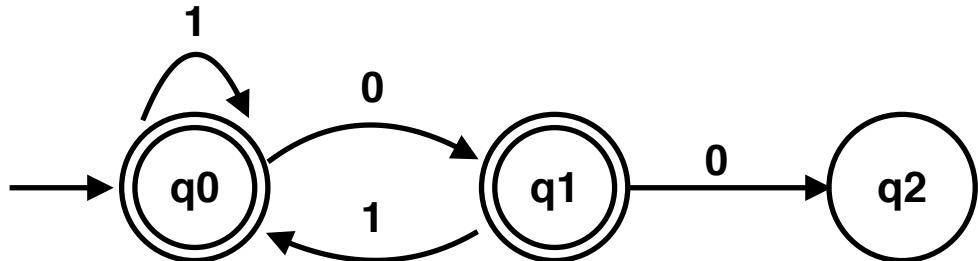


**nfa for  $L(r)$**



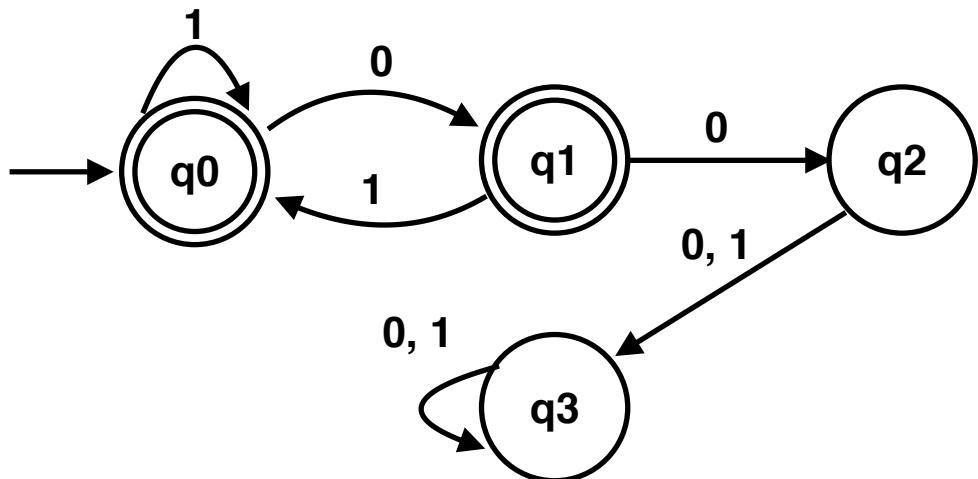
(a)

**nfa for  $\overline{L(r)}$**



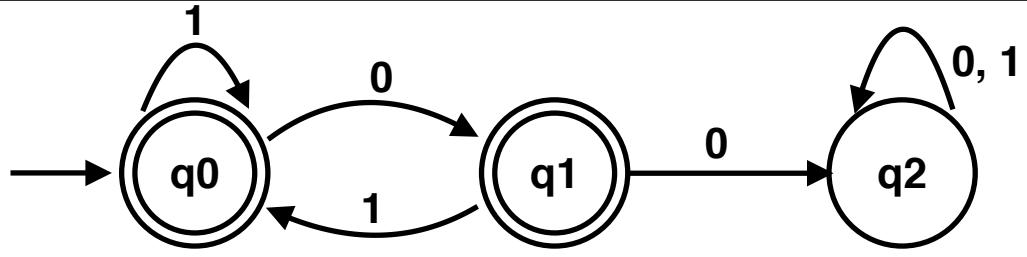
(b)

**equivalent dfa  
to nfa in (b)**



(c)

**minimal dfa**



(d)

Problem: Build a minimal dfa that do not accept at least two consecutive zero.

Procedures:

- 1) build an nfa that accepts at least two consecutive zero. => see (a)
- 2) build an nfa that do not accept at least two consecutive zero by flipping final state -> not final state and vice versa => see (b)
- 3) build an equivalent dfa to nfa => see (c)
- 4) minimal dfa => see (d)