# (1)

Construct an NFA recognising the following languages. Justifications not required.

## (a)

$L = \{w | w \text{ ends with } 00\}$

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Let NFA $M$ recognise $L = L(M)$, $M$ has:

- states $Q = \{q_0, q_1, q_2\}$
- start state $q_0 \in Q$
- accept state $A = \{q_2\}$
- transition function $\delta$ :

| Input State | Letter | Output State |
|---|---|---|
| $q_0$ | $0, a \in \Sigma \neq 0$ | $q_0$ |
| $q_0$ | $0$ | $q_1$ |
| $q_1$ | $0$ | $q_2$ |