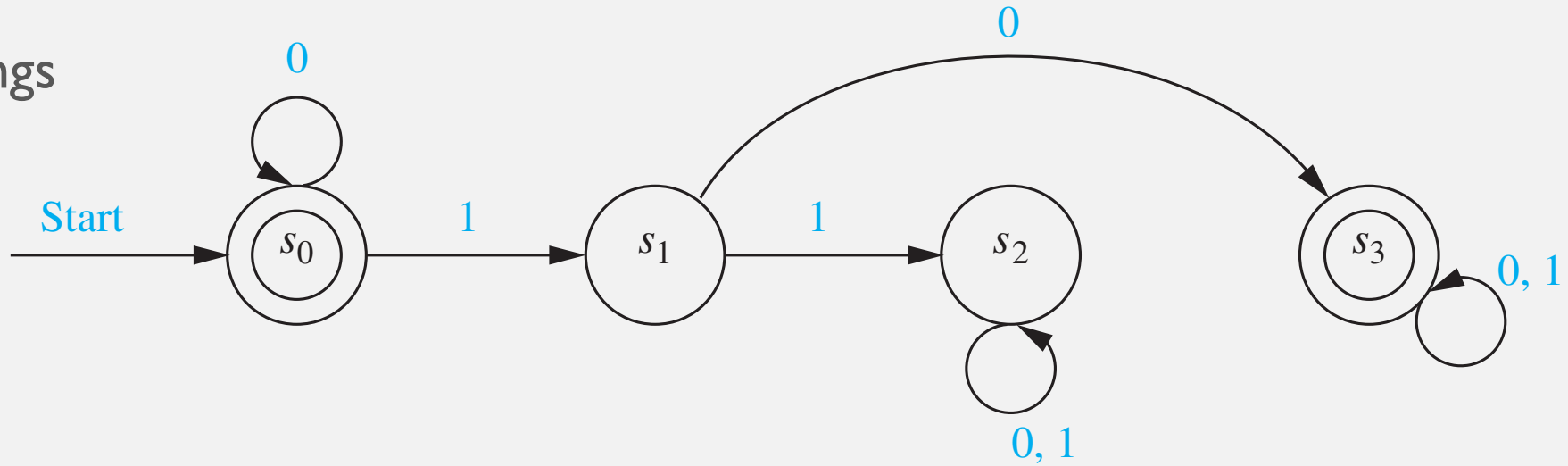
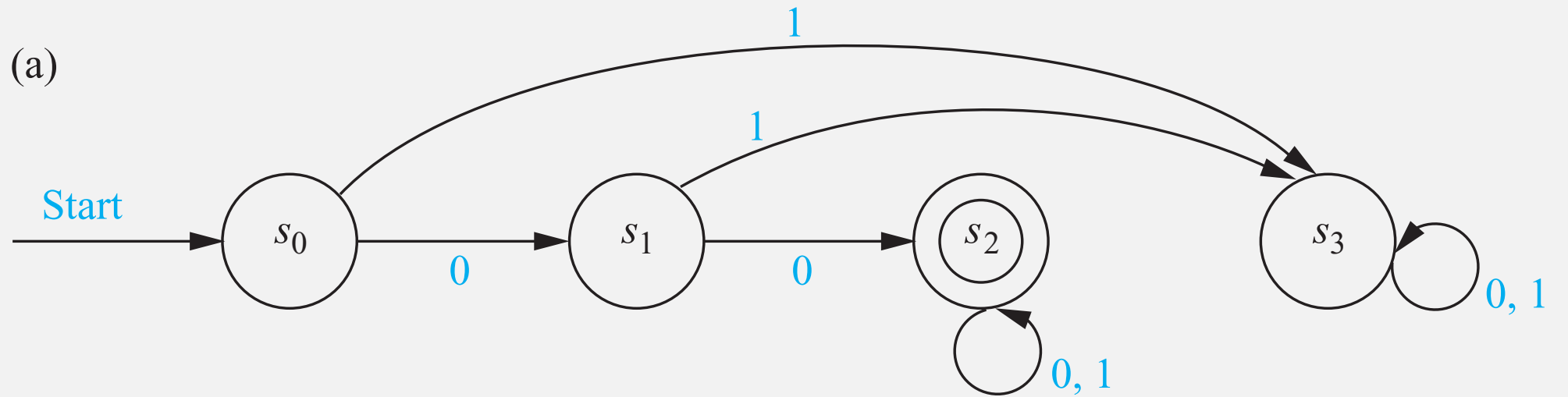


What set of strings does this DFA accept?

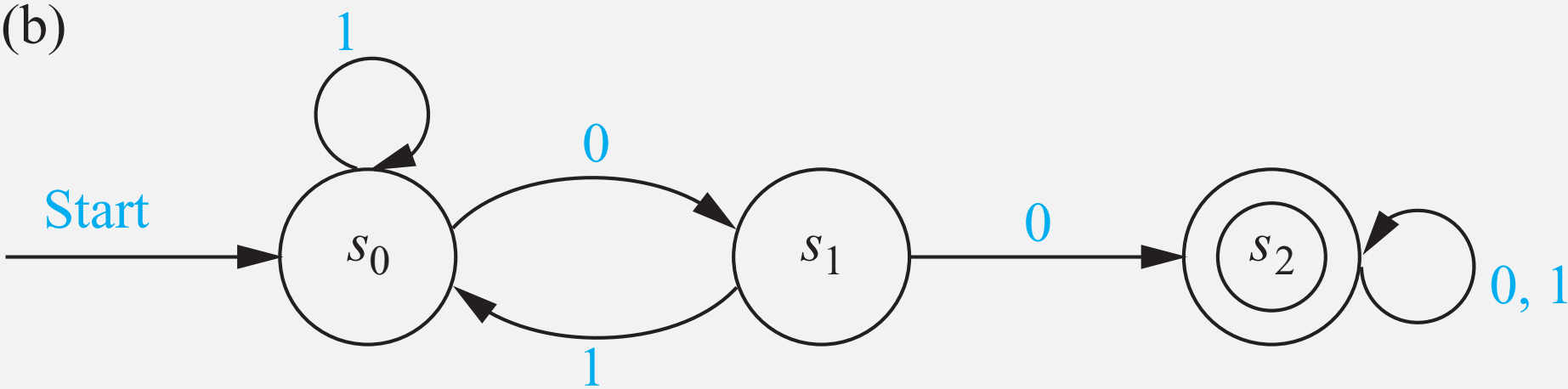


- For each: write using set-builder notation, and then create a DFA that accepts the set
 - (a) the set of bit strings that begin with two 0s
 - (b) the set of bit strings that contain two consecutive 0s
 - (c) the set of bit strings that do not contain two consecutive 0s
 - (d) the set of bit strings that end with two 0s
 - (e) the set of bit strings that contain at least two 0s

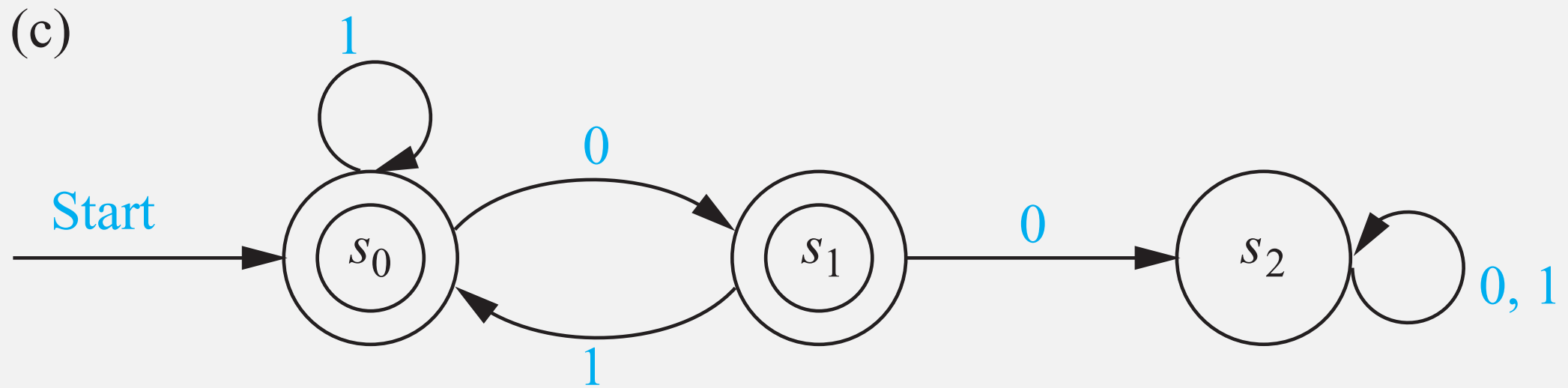
- $\{0^n, 0^n 10x : n \in \mathbb{N}, x \in \{0,1\}^*\}$
- a) $\{00x : x \in \{0,1\}^*\}$



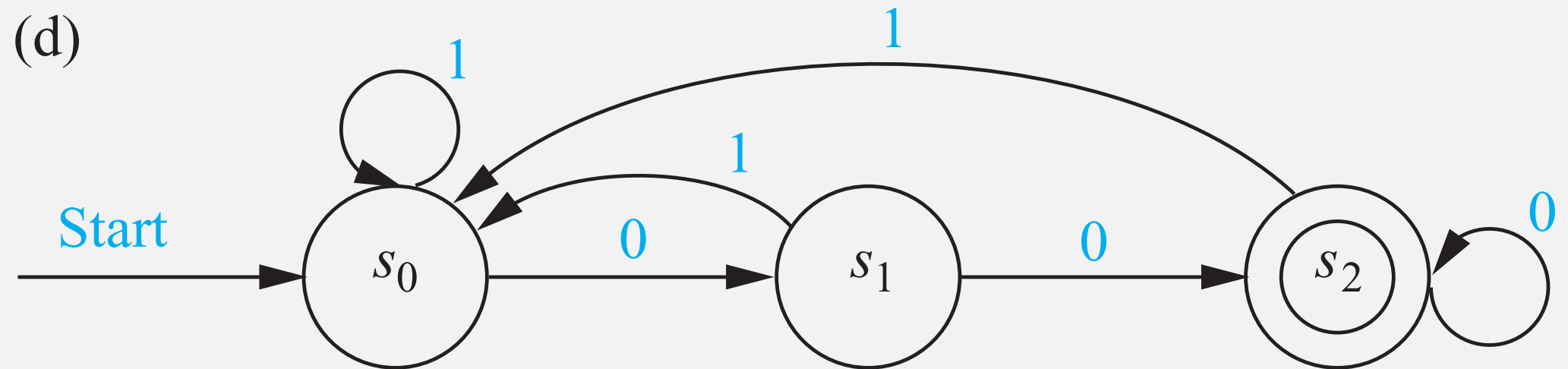
b) $\{x00y: x, y \in \{0,1\}^*\}$



c) $\{x00y: x, y \in \{0,1\}^*\}$



d) $\{x00: x \in \{0,1\}^*\}$



e) $\{x \in \{0,1\}^* : x \text{ contains 2 zeros}\}$

