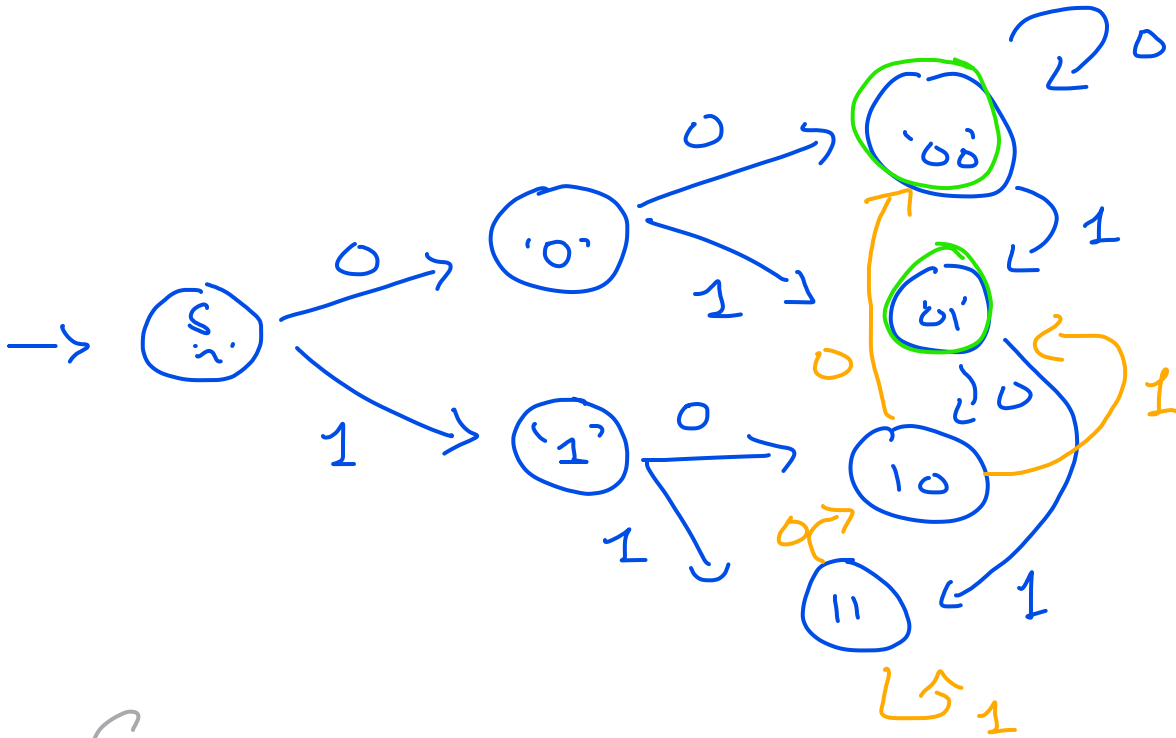


Roll Number:

Name:

**Problem:** Design a DFA for the following Language.

$$L = \{x \mid x \in \{0,1\}^*; \text{2nd last digit in } x \text{ must be '0'}\}$$

Does '0101'  $\in L$  prove it using extended transition for DFA.

$$L = \{ '00', '01' \}$$