

Quiz: Deterministic Finite Automata

- Due Feb 16 at 11:59pm
- Points 40
- Questions 2
- Available Feb 3 at 12am - Feb 16 at 11:59pm
- Time Limit None
- Allowed Attempts 2

Instructions

This quiz was locked Feb 16 at 11:59pm.

❗ Correct answers are no longer available.

Score for this attempt: 40 out of 40

Submitted Feb 16 at 9:34pm

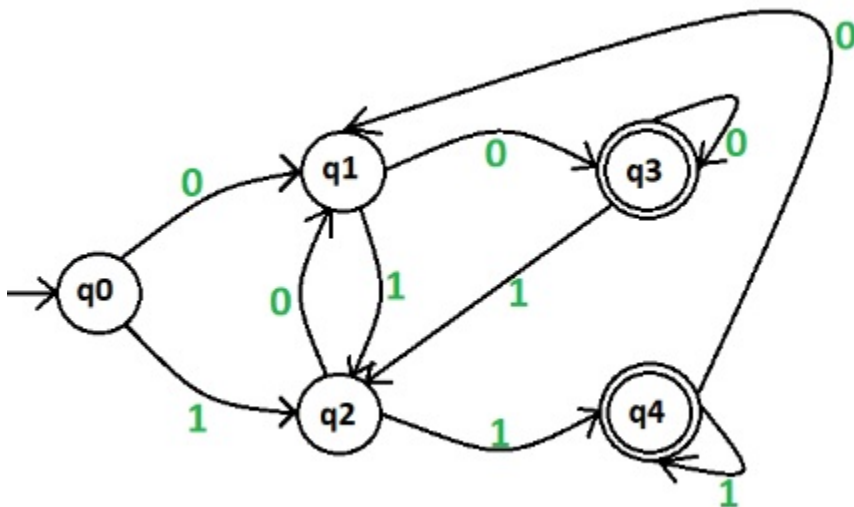
This attempt took 3 minutes.



Question 1

20 / 20 pts

Consider the following Deterministic Finite Automaton (DFA) with the 5-tuple of $(Q, \Sigma, q_0, F, \delta)$:



Which sequences are NOT accepted, choose all that applies.

☒ 10001

☐ 0000100

☒ 010110

☐ 110011

☒ 101010

☐ 00110011

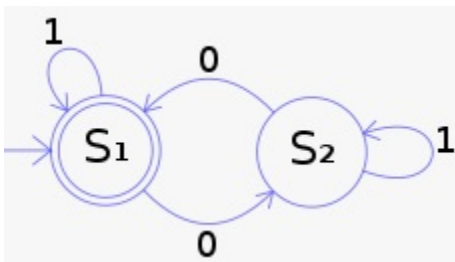
☒ 1100110



Question 2

20 / 20 pts

In the following Deterministic Finite Automaton (DFA):



What statement(s) correctly describe(s) the state machine?

Mark all correct answers.

- ☐ The length of accepted string is at least 2.
- ☐ Number of 1's in the accepted string must be an odd number.
- ☒ Number of 0's in the accepted string must be an even number.
- ☐ All accepted strings must end with 1.
- ☐ All accepted strings must start with 1.
- ☐ Accepted string will never have three consecutive 0's in it.

Quiz Score: 40 out of 40