

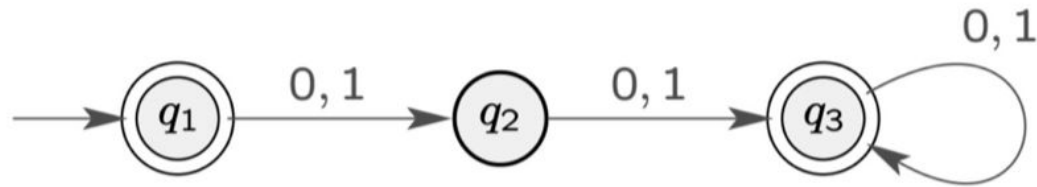
The Language accepted by this DFA is :

$$L = \{w \in \Sigma^* | w = bbs \text{ for some } s \in \Sigma^*\}$$

$$L = \{w \in \Sigma^* | w \text{ contains substring } bb\}$$

$$L = \{w \in \Sigma^* | w \text{ contains substring } bbb\}$$

$$L = \{w \in \Sigma^* | w = sbb \text{ for some } s \in \Sigma^*\}$$

**QUESTION 2****1 points**  Saved

The string *1* is accepted by the DFA?

- A. Yes
- B. No

**QUESTION 3****1 points**  Saved

The string *10* is accepted by the previous DFA?

- A. Yes
- B. No

**QUESTION 4****1 points** Save Answer

QUESTION 8

1 points

Save Answer

The language accepted by this DFA is:

☐ A.

$$L = \{w \in \Sigma^* \mid |w| > 1\}$$

☐ B.

$$L = \{w \in \Sigma^* \mid |w| = 1 \text{ or } |w| > 2\}$$

☐ C.

$$L = \{w \in \Sigma^* \mid |w| \neq 1\}$$

☐ D.

$$L = \{w \in \Sigma^* \mid |w| > 2\}$$

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

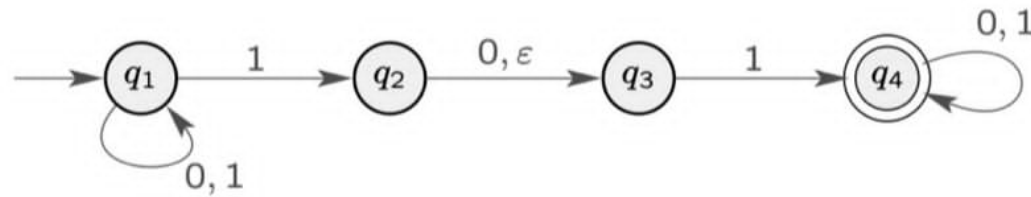
Save All Answers

Save and Submit

## QUESTION 4

1 points

Save Answer



$\delta^*(q_1, 010110)$  is?

- ☐ A. {q4}
- ☐ B. {q1, q3}
- ☐ C. {q3, q4}
- ☐ D. {q1, q3, q4}

## QUESTION 5

1 points

✓ Saved

Does the previous machine accept the string **010110**?

Yes

No

**QUESTION 6****1 points**

✓ Saved

7- Consider the Language

$$L = \{a^m b^n c^{2n}\}$$

where  $n, m \geq 0$ . Which of the following string is not in the language.

A. aabbccccc

B. abcc

C. aacc

D. bcc

**QUESTION 7****1 points**

Save Answer

Let  $\Sigma = \{0,1\}$ ,  $L_1 = \{x \in \Sigma^* \mid |x| \leq 1\}$ . Let  $L_2 = \{\lambda, 0,1,11\}$ . List the elements of the following language  $L = (L_1)^2 \cap (L_2)$ .

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers

Save and Submit

## QUESTION 7

1 points

Save Answer

Let  $\Sigma = \{0,1\}$ ,  $L_1 = \{x \in \Sigma^* \mid |x| \leq 1\}$ . Let  $L_2 = \{\lambda, 0,1,11\}$ . List the elements of the following language  $L = (L_1)^2 \cap (L_2)$ .

☐ A.

$\{\lambda, 0,1,00,01,10,11\}$

☐ B.

$\{0,1,11\}$

☐ C.

$\{\lambda, 0,1,11\}$

☐ D.

$\{0,1,00,01,10,11\}$

## QUESTION 8

1 points

Save Answer

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers

Save and Submit