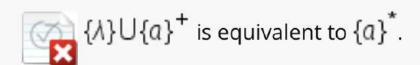
0 out of 0.5 points



Selected Answer: 🔕 False

Answers: STrue

False

Question 2

0.5 out of 0.5 points



Non-deterministic FA is easier to design than deterministic FA.

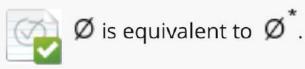
Selected Answer: 📀 True

Answers: STrue

False

Question 3

0.5 out of 0.5 points



Selected Answer: 🤡 False

Answers: True

False

0.5 out of 0.5 points



Non-deterministic FAs have more computation power than deterministic FAs.

Selected Answer: 📀 False

Answers: True

False

Question 5

0.5 out of 0.5 points



Programming language compilers are an example of finite automata.

Selected Answer: 📀 False

Answers: True

False

Question 6

0.5 out of 0.5 points



Coffee vending machine is an application of finite automata.

Selected Answer: 📀 True

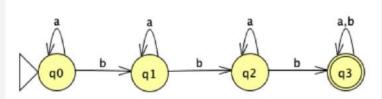
Answers: STrue

False

0.5 out of 0.5 points



Consider the following DFA:



Which of the following words will be accepted by the above automata?

Selected Answer: 📀 C. baababb

Answers: A. aaa

B. baaba

🕜 C. baababb

D. A

Question 8

1 out of 1 points



Recall the DFA in Question 7, the language accepted by that automata is:

Selected 💍 C.

Answer: All strings over $\Sigma = \{a, b\}$

with at least three b's.

Answers: A.

All strings over $\Sigma = \{a, b\}$

that contain the substring

bbb.



Recall the DFA in Question 7, which of the following words will be rejected by that automata?

Selected Answer: 📀 B. baba

Answers: A. ababab

👩 B. baba

C. bbb

D. abbb

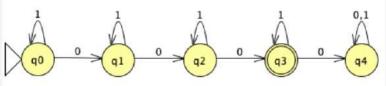
Response Feedback:

Question 10

0.5 out of 0.5 points



Consider the following DFA:



Which of the following words will be accepted by the above automata?

Selected Answer: 📀 C. 0100111

Answers: A. 01

B. 111

C. 0100111

D. 01010101



Recall the DFA in Question 10, the language accepted by that automata is:

Selected 🚫 B.

Answer: All binary strings with exactly three zero's.

Answers:

A.

All binary strings with at least three zero's.

Ø B.

All binary strings with exactly three zero's.

C.

All binary strings that contains number of zero's divisible by three.

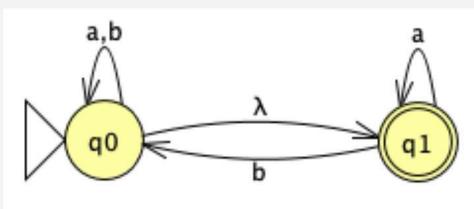
D.

All binary strings with exactly three consecutive zero's.

Response Feedback:



Consider the following NFA:



$$\bar{\delta}^*(q_1, ab) =$$

Selected Answer: 🚫 A. $\{q_0,q_1\}$

Answers: \bigcirc A. $\{q_0,q_1\}$

B. Ø

C. $\{q_0\}$

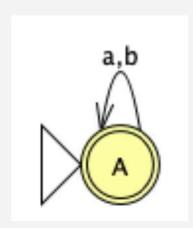
D. {λ}



1 out of 1 points



Recall the NFA in Question 13, applying subset construction algorithm will result in the following DFA:



Selected Answer: 🚫 True

Answers: True

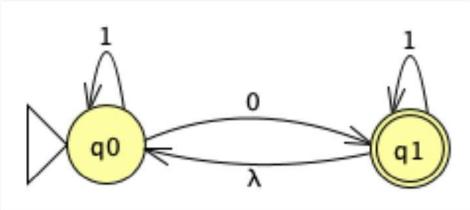
False

Response Feedback:

0.5 out of 0.5 points



Consider the following NFA:



$$\bar{\delta}^*(q_0, 1101) =$$

Selected Answer: \bigcirc D. $\{q_0, q_1\}$

Answers: A. $\{q_1\}$

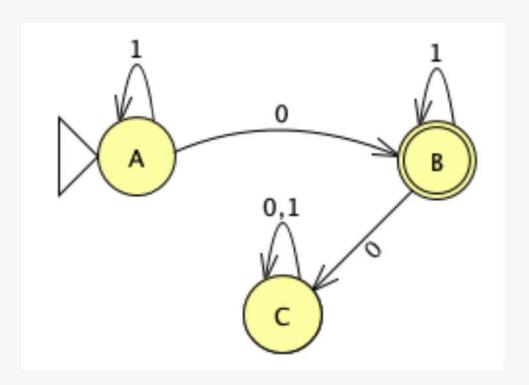
B. {λ}

c. Ø

O. {q₀,q₁}

1 out of 1 points

Recall the NFA in Question 15, applying subset construction algorithm will result in the following DFA:



Selected Answer: 📀 False

Answers: True

False

Response Feedback: