

Fall Semester 2022

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## Quiz 11

Due Nov 7 at 11:59pm

Points 6

Questions 6

Available Nov 3 at 11:59pm - Nov 21 at 11:59pm

Time Limit 30 Minutes

## Instructions

Quiz 11

## Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	10 minutes	4 out of 6

Correct answers will be available on Nov 15 at 12am.

Score for this quiz: 4 out of 6  
Submitted Nov 7 at 9:10pm  
This attempt took 10 minutes.

Submission Details:	
Time:	10 minutes
Current Score:	4 out of 6
Kept Score:	4 out of 6

### Question 11 / 1 pts

State transition labelled a, b / c means "when machine reads an a from the input and the top symbol of the stack is a b, it may replace the b with c."

What edge label would indicate "Read a 0, don't pop anything from stack, don't push anything to the stack"?

- A. 0,  $\lambda$ /0  
B.  $\lambda$ , 0/0  
C.  $\lambda$ ,  $\lambda$ /0  
D. 0,  $\lambda$ / $\lambda$

☐ A

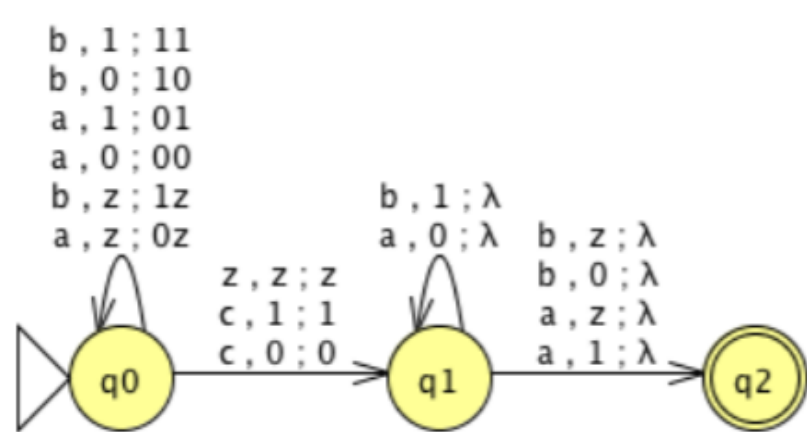
☒ D

☐ B

☐ C

Incorrect

### Question 20 / 1 pts



What is the configuration after (q0, abcba, Z)

- A. q2,  $\lambda$ , 8Z  
B. q1,  $\lambda$ , Z  
C. q1,  $\lambda$ , 8Z  
D. q2, Z, 1Z  
E. q2,  $\lambda$ , Z

☐ B

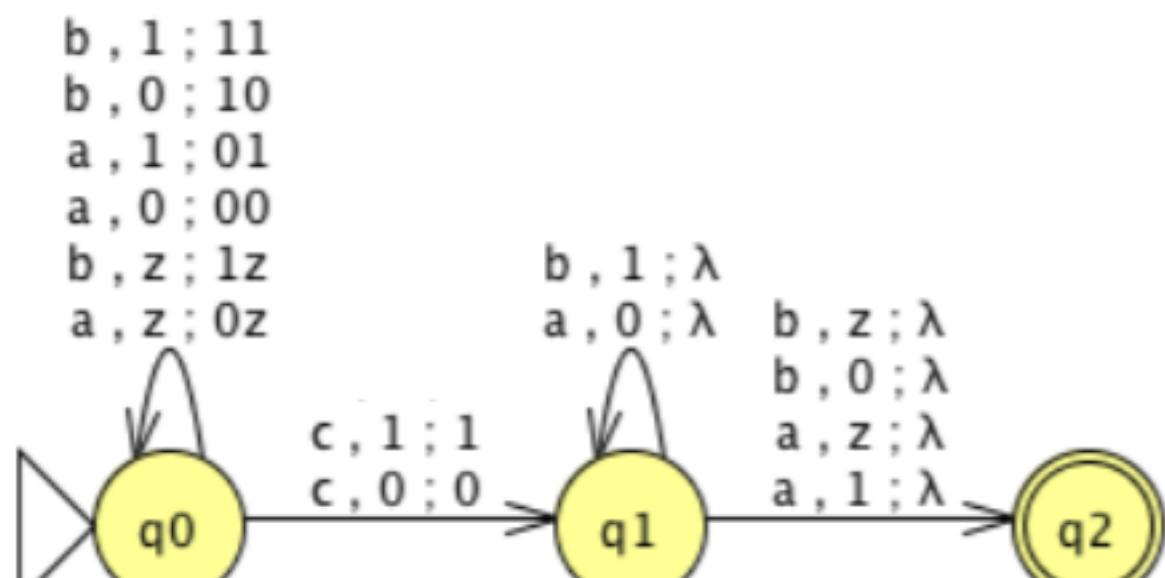
☐ A

☒ D

☐ E

☐ C

### Question 31 / 1 pts



What is the final end configuration starting from (q0, aacb, Z)

- A. q2,  $\lambda$ , 8Z  
B. q2,  $\lambda$ , Z  
C. q1,  $\lambda$ , 8Z  
D. q2, Z, 1Z  
E. q2,  $\lambda$ , 1Z

☐ B

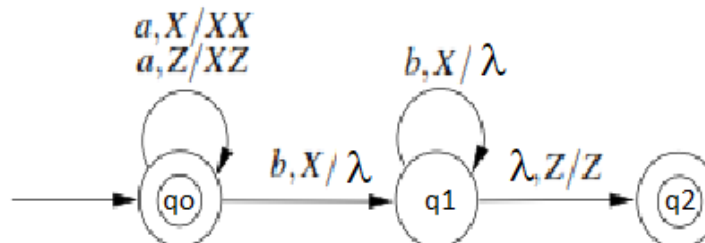
☐ D

☐ E

☒ A

☐ C

### Question 41 / 1 pts



What is the next configuration after (q0, aabb, Z)

- A. q1, abb, XZ  
B. q1, abb, ZX  
C. q1, abb, XX  
D. q1, abb, Z  
E. None of the above

☐ B

☐ A

☐ D

☒ E

☐ C

### Question 51 / 1 pts

Which of the following pairs have DIFFERENT expressive power?

- A Deterministic finite automata(DFA) and Non-deterministic finite automata(NFA)  
B Deterministic push down automata( DPDA)and Non-deterministic push down automata (NPDA)

☐ None of A or B

☐ A only

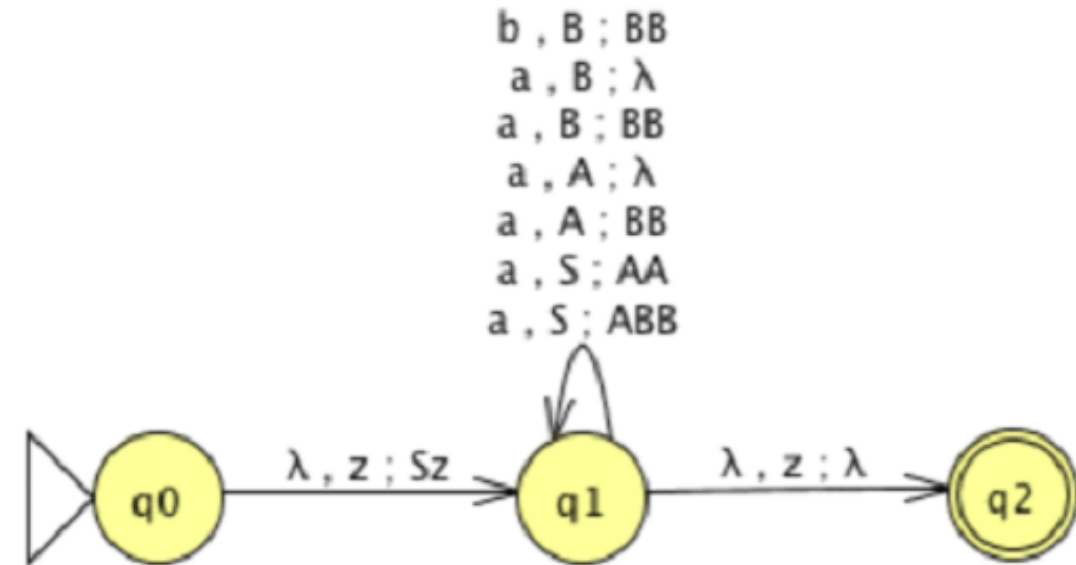
☐ Both A and B

☒ B only

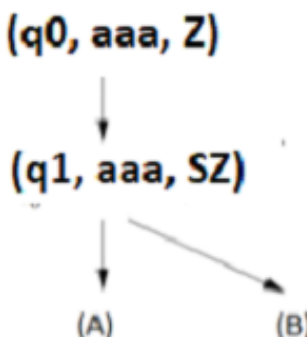
Incorrect

### Question 60 / 1 pts

Given a NPDA below:



If you write the configuration sequence on input aaa as shown below, give the configuration that is possible for (A) and (B)?



☐ (q2,aaa,S)

☐ (q1,aa,BBZ)

☒ (q1,aaa,ABBZ)

☐ (q1,aaa,AAZ)

☐ (q1,aa,ABBZ)

☒ (q1,aa,AAZ)

Quiz Score: 4 out of 6

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