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Questions

Student ID

0 points possible (ungraded, results hidden)
Please provide your ID:

18301150

Submit You have used 1 of 2 attempts

Answer submitted.

Your Name

0 points possible (ungraded, results hidden)
Please provide your Name:

Samiha Raisa

You have used 1 of 2 attempts

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Your Theory Section

0 points possible (ungraded, results hidden)

Please provide your section:

03

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Answer submitted.

LL (1) PARSING

10.0 points possible (graded, results hidden)

Consider the following grammar

1. $E \rightarrow [F] | b$

2. $F \rightarrow EG$

3. $G \rightarrow , F | \varepsilon$

1. What will be the elements in Follow (E)?

- [ ] ,
- [ ] $
- [ ]]

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- [ ] $
- [ ]]

3. What will be the elements in Follow (G)?

- [ ] ,
- [ ] $
- [ ]]

Let's build an LL (1) parse table

	[	]	,	b	$
E					
F					
G					

Fig. 3.1

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- [ ] $F \rightarrow EG$

- [ ] $G \rightarrow, F$

5. What will be the production rule in entry (F, [ )?

- [ ] $E \rightarrow [F]$
- [ ] $F \rightarrow EG$
- [ ] $G \rightarrow, F$

6. What will be the production rule in entry (E, b)?

- [ ] $E \rightarrow b$
- [ ] $F \rightarrow EG$
- [ ] $G \rightarrow, F$

7. What will be the production rule in entry (F, b)?

- [ ] $E \rightarrow b$

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8. What will be the production rule in entry (G,])?

- [ ] $E \rightarrow b$
- [ ] $F \rightarrow EG$
- [ ] $G \rightarrow \varepsilon$

9. What will be the production rule in entry (G, ,)?

- [ ] $E \rightarrow b$
- [ ] $F \rightarrow EG$
- [ ] $G \rightarrow, F$

10. What will be the production rule in entry (G, b)?

- [ ] error
- [ ] $G \rightarrow \varepsilon$
- [ ] $G \rightarrow, F$

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Consider the following augmented grammar

1. $S \rightarrow E$

2. $E \rightarrow E \wedge E$

3. $E \rightarrow E * E$

4. $E \rightarrow (E)$

5. $E \rightarrow int$

[Note that the exponentiation operator (^) has higher precedence than all other arithmetic operators and it is also right associative.]

Determine the LR (0) collection of items

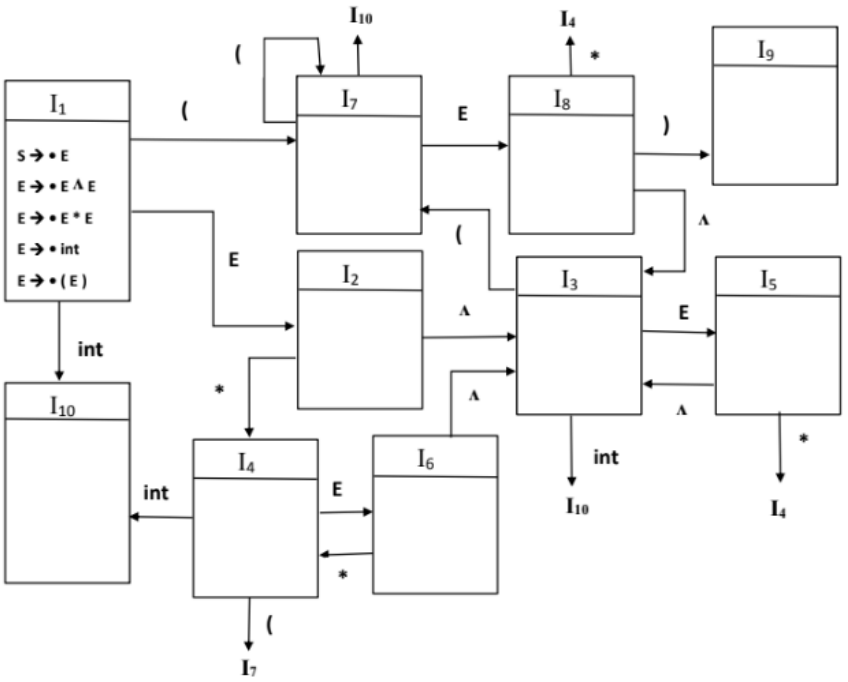

Fig. 2.1

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a) S → • E

b) E → • E Λ E

c) E → • E * E

d) E → • int

e) E → • (E)

f) S → E •

g) E → E • Λ E

h) E → E • * E

i) E → int •

j) E → (• E)

k) E → E Λ • E

l) E → E * • E

m) E → (E •)

n) E → E Λ E •

o) E → E * E •

p) E → (E) •

Fig. 2.2

1.Which are the elements of item I_2 ?

- [ ] **a**
- [ ] **b**

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- [ ] **e**
- [ ] **f**
- [ ] **g**
- [ ] **h**
- [ ] **i**
- [ ] **j**
- [ ] **k**
- [ ] **l**
- [ ] **m**
- [ ] **n**
- [ ] **o**
- [ ] **p**

2.Which are the elements of item $\mathbf{I_3}$?

- [ ] **a**

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- [ ] **d**
- [ ] **e**
- [ ] **f**
- [ ] **g**
- [ ] **h**
- [ ] **i**
- [ ] **j**
- [ ] **k**
- [ ] **l**
- [ ] **m**
- [ ] **n**
- [ ] **o**
- [ ] **p**

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- [ ] **b**
- [ ] **c**
- [ ] **d**
- [ ] **e**
- [ ] **f**
- [ ] **g**
- [ ] **h**
- [ ] **i**
- [ ] **j**
- [ ] **k**
- [ ] **l**
- [ ] **m**
- [ ] **n**
- [ ] **o**
- [ ] **p**

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- [ ] **b**
- [ ] **c**
- [ ] **d**
- [ ] **e**
- [ ] **f**
- [ ] **g**
- [ ] **h**
- [ ] **i**
- [ ] **j**
- [ ] **k**
- [ ] **l**
- [ ] **m**
- [ ] **n**
- [ ] **o**
- [ ] **p**

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- [ ] **b**
- [ ] **c**
- [ ] **d**
- [ ] **e**
- [ ] **f**
- [ ] **g**
- [ ] **h**
- [ ] **i**
- [ ] **j**
- [ ] **k**
- [ ] **l**
- [ ] **m**
- [ ] **n**
- [ ] **o**
- [ ] **p**

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- [ ] **b**
- [ ] **c**
- [ ] **d**
- [ ] **e**
- [ ] **f**
- [ ] **g**
- [ ] **h**
- [ ] **i**
- [ ] **j**
- [ ] **k**
- [ ] **l**
- [ ] **m**
- [ ] **n**
- [ ] **o**
- [ ] **p**

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- [ ] **b**
- [ ] **c**
- [ ] **d**
- [ ] **e**
- [ ] **f**
- [ ] **g**
- [ ] **h**
- [ ] **i**
- [ ] **j**
- [ ] **k**
- [ ] **l**
- [ ] **m**
- [ ] **n**
- [ ] **o**
- [ ] **p**

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- [ ] **b**
- [ ] **c**
- [ ] **d**
- [ ] **e**
- [ ] **f**
- [ ] **g**
- [ ] **h**
- [ ] **i**
- [ ] **j**
- [ ] **k**
- [ ] **l**
- [ ] **m**
- [ ] **n**
- [ ] **o**
- [ ] **p**

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- [ ] **b**
- [ ] **c**
- [ ] **d**
- [ ] **e**
- [ ] **f**
- [ ] **g**
- [ ] **h**
- [ ] **i**
- [ ] **j**
- [ ] **k**
- [ ] **l**
- [ ] **m**
- [ ] **n**
- [ ] **o**
- [ ] **p**

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◯ **{ ∧, ^, ε }**

◯ **{ ∧, *, (, $ }**

◯ **{ ∧, *,) , $ }**

Now construct an SLR 1 parse table for the above grammar

	int	∧	*	(	)	$	E
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Fig. 2.3

11. What will be the entry of the cell (5, ∧) of the constructed SLR

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- [ ] **S4**
- [ ] **R2**
- [ ] **R3**

12. What will be the entry of the cell (5, *) of the constructed SLR (1) parse table?

- [ ] **S3**
- [ ] **S4**
- [ ] **R2**
- [ ] **R3**

13. What will be the entry of the cell (6, ∧) of the constructed SLR (1) parse table?

- [ ] **S3**
- [ ] **S4**
- [ ] **R2**

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14. What will be the entry of the cell (5, *) of the constructed SLR (1) parse table?

- [ ] **S3**
- [ ] **S4**
- [ ] **R2**
- [ ] **R3**

15. What will be the entry of the cell (5, ∧) after resolving the conflict?

- [ ] **S3**
- [ ] **S4**
- [ ] **R2**
- [ ] **R3**

16. What will be the entry of the cell (5, *) after resolving the conflict?

- [ ] **S3**

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- [ ] **R3**

17. What will be the entry of the cell (6, ∧) after resolving the conflict?

- [ ] **S3**
- [ ] **S4**
- [ ] **R2**
- [ ] **R3**

18. What will be the entry of the cell (6, *) after resolving the conflict?

- [ ] **S3**
- [ ] **S4**
- [ ] **R2**
- [ ] **R3**

19. What will be the entry of the cell (1, $) of the constructed SLR

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- [ ] error
- [ ] S2
- [ ] S7

20. What will be the entry of the cell (2, $) of the constructed SLR (1) parse table

- [ ] accept
- [ ] error
- [ ] S3
- [ ] S4

Submit You have used 0 of 2 attempts

LR(1) Parsing

10.0 points possible (graded, results hidden)

Consider the following augmented grammar, G =({S, V, E}, S, {id, :, =, n})

0. $S' \rightarrow S$

1. $S \rightarrow id$

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5. $E \rightarrow n$

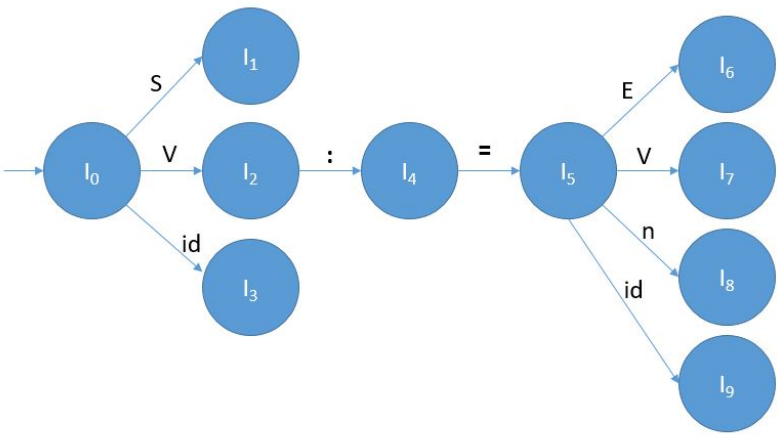

Fig. 1

Figure 1 shows the skeleton of the LR(1) automaton for the grammar. Complete the set of items, construct the LR(1) table and answer the following questions based on your derived results.

1. How many items are there in the set of items $\mathbf{I_0}$?

2. How many items are there in the set of items $\mathbf{I_1}$?

3. How many items are there in the set of items $\mathbf{I_2}$?

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4. How many items are there in the set of items $\mathbf{I_3}$?

5. How many items are there in the set of items $\mathbf{I_4}$?

6. How many items are there in the set of items $\mathbf{I_5}$?

7. In the LR(1) table, which of the following do you get in the cell $\mathbf{(I_9, id)}$?

- Shift 6
- Shift 7
- Shift 8
- Shift 9
- Reduce

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8. In the LR(1) table, which of the following do you get in the cell **(I_6, $)**?

- ◯ Shift 6
- ◯ Shift 7
- ◯ Shift 8
- ◯ Reduce 2
- ◯ Reduce 4
- ◯ Reduce 5

9. In the LR(1) table, which of the following cells contain Reduce 3 (R3) ?

- ☐ **(I_3, $)**
- ☐ **(I_6, $)**
- ☐ **(I_3, :)**
- ☐ **(I_6, $)**
- ☐ **(I_9, $)**

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numbers remained in the stack at the end of parsing?

- [ ] 0
- [ ] 1
- [ ] 2
- [ ] 3
- [ ] 4
- [ ] 5
- [ ] 6
- [ ] 7
- [ ] 8

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