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The duration of the assessment is 2 hours. The last 10 minutes are included here for pdf submission.

You have **ONLY 2 ATTEMPTS** for the entire question paper. So, be sure of your answer before submitting.

Don't submit at the last moment.

Read the question properly before answering.

Don't forget to keep screenshots of your submissions, just in case. You must take the screenshot while the exam is running, and not afterwards.

**Keep a khata with you, where you show the detailed simulations to your questions.
Combine the pages sequentially into a pdf**

After you're done with buX submission, click on the link below to submit your pdf

STUDENT INFORMATION

0 points possible (ungraded, results hidden)

It is crucial that you submit this information

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Shadab Iqbal

Student ID

19101072

19101072

Section

8

8

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i Answer submitted.

'Multiple Choice'

10.0 points possible (graded, results hidden)

- 0. $S = \text{Tail } \$$
- 1. $\text{Earth} = \text{Tail Earth' Tail}$
- 2. $\text{Earth}' = ^ (\text{Tail Earth}')$
- 3. $\text{Earth}' = \epsilon$
- 4. $\text{Tail} = \text{Flag Tail}' \text{ Earth}$
- 5. $\text{Tail}' = \% \text{ Flag}$
- 6. $\text{Tail}' = \epsilon$
- 7. $\text{Flag} = (\text{Earth})$
- 8. $\text{Flag} = \text{number}$
- 9. $\text{Earth} = ^$

Given the grammar answer the following questions:

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☐ First(Flag) = { (, number }

☒ First(Earth') = { ^ }

☒ First(Earth) = { ^, num }

☐ None

2. Which statements are completely/partially false?

☒ Follow(Earth) = { }, (, number, ^ }

☒ Follow(Tail) = { (, number, ^,), \$ }

☒ Follow(Tail') = { }, number }

☒ Follow(Flag) = { (, number, %, \$ }

☒ Follow(Earth') = { (,) }

☐ None

3. Which statements are completely true?

☒ The entry of the cell (S, () of the constructed LL (1) pre-calculated parse table is rule 1

☒ The entry of the cell (Earth', \$) of the constructed LL (1) pre-calculated parse table is nothing

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☐ Rule 2 has 2 entries in the constructed LL (1) pre-calculated parse table

☐ None

4. If we prepare a parsing tree with the string "**(^) number ^ number ^**" from the above LL(1) table, total number of leaf nodes will be

☐ 7

☐ 14

☒ 11

☐ 10

☐ 24

☐ None

5. If we prepare a parsing tree with the string "**(^) number ^ number ^**" from the above LL(1) table, total number of parent nodes will be

☐ 24

☐ 14

☐ 10

☐ 21

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6. Which strings are not acceptable for the grammar?

☒ number ^ number

☒ (number ^ number ^) ^

☒ (number % number ^ number)

☒ (number ^ number ^) % number ^

☐ number (number % number) number ^

Do not forget to click on **submit**

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You have used 0 of 2 attempts

SLR(1)

10.0 points possible (graded, results hidden)

Consider the following grammar,

0. $S' \rightarrow S$

1. $S \rightarrow L = R$

2. $S \rightarrow R$

3. $L \rightarrow *R$

4. $L \rightarrow id$

5. $R \rightarrow L$

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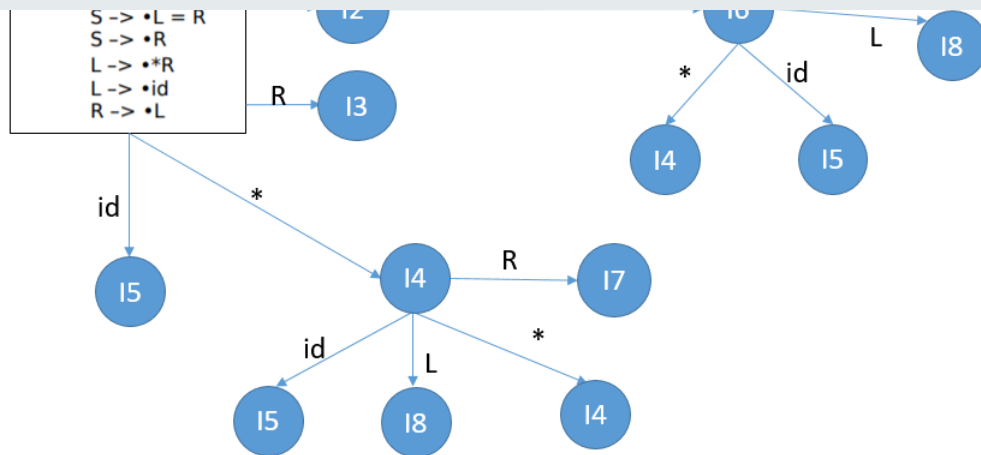


Figure 1

Figure 1 shows the skeleton of the LR(0) automaton for the grammar.

Complete the rest of the set of items. Construct the SLR(1) table and answer the following questions based on your derived results.

1. Which of the following actions are in the cell corresponding to (I0, *)?

☐ S1

☐ S2

☐ S3

☐ S4

☐ S5

☐ S6

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☐ S9

☐ R1

☐ R2

☐ R3

☐ R4

☐ R5

☐ None of the above

2. Which of the following actions are in the cell corresponding to (I3, \$)?

☐ S1

☐ S2

☐ S3

☐ S4

☐ S5

☐ S6

☐ S7

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☐ R1

☐ R2

☐ R3

☐ R4

☐ R5

☐ None of the above

3. Which of the following actions are in the cell corresponding to (I5, \$)?

☐ S1

☐ S2

☐ S3

☐ S4

☐ S5

☐ S6

☐ S7

☐ S8

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☐ R2

☐ R3

☐ R4

☐ R5

☐ None of the above

4. Which of the following actions are in the cell corresponding to (I5, =)?

☐ S1

☐ S2

☐ S3

☐ S4

☐ S5

☐ S6

☐ S7

☐ S8

☐ S9

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☐ R2

☐ R3

☐ R4

☐ R5

☐ None of the above

5. Which of the following cells contain R5?

☐ (I2, id)

☐ (I2, =)

☐ (I2, *)

☐ (I2, \$)

☐ (I8, id)

☐ (I8, =)

☐ (I8, *)

☐ (I8, \$)

☐ (I7, b)

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6. Which of the following cells contain R3?

☐ (I2, id)

☐ (I2, =)

☐ (I2, *)

☐ (I2, \$)

☐ (I7, id)

☐ (I7, =)

☐ (I7, *)

☐ (I7, \$)

☐ (I8, b)

☐ (I8, \$)

☐ None of the above

7. Which of the following actions are in the cell corresponding to (I4, id)?

☐ S1

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☐ S4

☐ S5

☐ S6

☐ S7

☐ S8

☐ S9

☐ R1

☐ R2

☐ R3

☐ R4

☐ R5

☐ None of the above

8. How many items are in the set of items I4?

☐

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☐ NO

10. What kind of conflict(s) are there in the table (If any)?

☐ Shift/Reduce

☐ Reduce/Reduce

☐ No conflict

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LR(1) Parsing

10.0 points possible (graded, results hidden)

Consider the following augmented grammar, $G = (\{S, Var, Expr\}, \{id, :, =, num\})$

0. $S' \rightarrow S$

1. $S \rightarrow id$

2. $S \rightarrow Var := Expr$

3. $Var \rightarrow id$

4. $Expr \rightarrow Var$

5. $Expr \rightarrow num$

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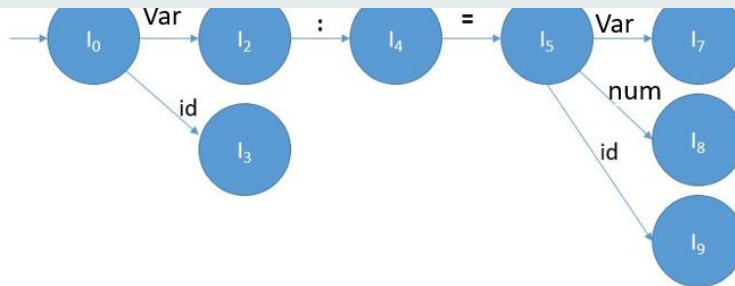


Fig. 1

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 I_0 ?

☐

2. How many items are there in the set of items I_1 ?

☐

3. How many items are there in the set of items I_2 ?

☐

4. How many items are there in the set of items I_3 ?

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6. How many items are there in the set of items I_5 ?

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

☐ Shift 6

☐ Shift 7

☐ Shift 8

☐ Shift 9

☐ Reduce

☐ Error

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

☐ Shift 6

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☐ Reduce 2

☐ Reduce 4

☐ Reduce 5

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

☐ (I₃, \$)

☐ (I₆, \$)

☐ (I₃, :)

☐ (I₆, \$)

☐ (I₉, \$)

☐ (I₈, \$)

10. In the LR(1) table, which of the following cells contain Reduce 4 (R4) ?

☐ (I₃, \$)

☐ (I₆, \$)

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☐ (17, \$)

☐ (18, \$)

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