QUESTIONS

The duration of the assessment is 40 minutes.

You have ONLY 1 ATTEMPT 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.

STUDENT INFORMATION

0 points possible (ungraded, results hidden)

It is crucial that you submit this information

Don't worry if it shows wrong answer

You are taking "QUIZ 3" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam".

Show Less

<kbd>End My Exam</kbd>   0:15:34 👁

Student ID

> 19101072

19101072

Section

> 8

8

<kbd>Submit</kbd>

ℹ Answer submitted.

LL (1) PARSING

10.0 points possible (graded, results hidden)
Consider the following grammar

1. $E \rightarrow TE'$

2. $E' \rightarrow -TE'$

3. $E' \rightarrow \varepsilon$

4. $T \rightarrow FT'$

5. $T' \rightarrow +FT'$

You are taking "QUIZ 3" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam".

Show Less

End My Exam   0:15:34 👁

1. What are the non terminals of this grammar?

- [ ] '
- [x] +
- [x] -
- [x] id
- [x] (
- [x])
- [ ] *id

2. What are the correct first sets for the non-terminals of the grammar?

- [x] First(E) = { (, id}
- [x] First(E') = { -, epsilon}
- [ ] First(T) = { +, $}
- [ ] First(F) = { (, id, E }

You are taking "QUIZ 3" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam".

Show Less

End My Exam   0:15:34 👁

3.What are the correct follow sets for the non-terminals of the grammar?

- ☑ Follow(E) = { ')' }

- ☑ Follow(E') = {$,)}

- ☑ Follow(T') = { -, $,) }

- ☑ Follow(F) = {-,+,$,)}

- ☐ Follow(T) = {-,$}

4. If we apply LL(1) for the above grammar, What will be the entry of the cell (E', -) of the constructed LL (1) pre-calculated parse table?

- ◯ nothing

- ⦿ E' -> - T E'

- ◯ E' -> ''

- ◯ E' -> (E)

- ◯ E' -> F T'

You are taking "QUIZ 3" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam".

Show Less

End My Exam   0:15:34   👁

- (●) T' -> epsilon
- (○) E' -> -T E'
- (○) T -> -T E'
- (○) T' -> F T'

6. What will be the entry of the cell (T, +) of the constructed LL (1) pre-calculated parse table?

- (●) nothing
- (○) T -> id
- (○) T -> epsilon
- (○) T -> F T'
- (○) T' -> F T'

You are taking "QUIZ 3" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam".

Show Less

End My Exam   0:15:34

○ E -> id

○ E -> epsilon

◉ E -> T E'

○ F -> id

8.What will be the entry of the cell (F,)) of the constructed LL (1) pre-calculated parse table?

◉ nothing

○ F -> id

○ F -> epsilon

○ F -> (E)

○ T -> + F T'

9. What is/are the accepted string(s) for the above grammar?

☑ (id - id + id)

You are taking "QUIZ 3" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam".

Show Less

End My Exam   0:15:34

☑ id

☐ + id

10. If the input was "id + id - id +" , which of the following are true?

☐ At the last stage, stack will be empty and all the inputs will be seen

☐ At the last stage, , stack will be empty, but some inputs will be unseen

☑ At the last stage, all inputs will be seen , stack will have {$ E' T' F}

☑ The last rule used to pop the stack element is " T' -> + F T' "

☐ The last rule used to pop the stack element is " T' -> epsilon "

Submit   You have used 0 of 1 attempt

❮ Previous

Next ❯

You are taking "QUIZ 3" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam".

Show Less

End My Exam   0:15:34