CS323 2024F Quiz #2 - Parsing

1. Your student ID: *
2.Consider the grammar G below. Which one of the following statements is wrong? *
E-> E + E E - E E * E (E) id
○ The grammar symbol E is a non-terminal
○ The grammar is LL(1)
(id+id)*(id-id) is a valid sentence of the grammar
○ E-(E) is a sentential form of the grammar
3.An LL(1) parser generates *
Left-most derivation
Left-most derivation in reverse
Right-most derivation
Right-most derivation in reverse
Given the grammar S -> SS+ SS* a, answer the following two questions.

4.Which of the following symbols belong(s) to FIRST(S)?[多选题] *
\$
_ ε
+
*
Па
5.Which of the following symbols belong(s) to FOLLOW(S)? [多选题] *
ε
*
а
6.For a shift-reduce style bottom-up parser, the stack content (grammar symbols from bottom to top) and the
remaining symbols in the input buffer always form a of the language. Here, we assume that there is no syntax error during parsing. *
○ Left-sentential form
○ Left-sentential form in reverse
○ Right-sentential form
Right-sentential form in reverse

7.Which of the following statements about items is incorrect? *
○ LR(0) items have no lookahead symbols.
LR(1) items have one lookahead symbol.
The dot can only appear in the production body in LR(0) items.
SLR algorithm uses LR(1) items to make parsing decisions.

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