

Gradiance Online Accelerated Learning

Zayd

Home Page

• Assignments Due

• Progress Report

Handouts

• Tutorials

Homeworks

• Lab Projects

• Log Out

Help

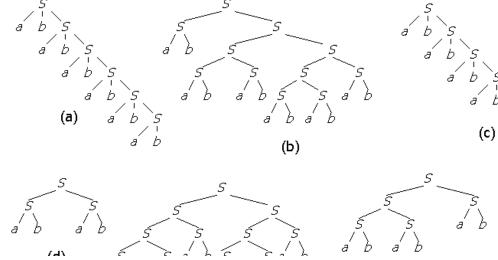
Submission number: 67759 **Submission certificate:** HF586627

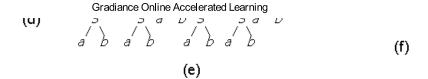
Submission time: 2014-03-08 22:21:21 PST (GMT - 8:00)

Number of questions:5Positive points per question:3.0Negative points per question:1.0Your score:11

Selected questions on parse trees. Based on Section 5.2 of HMU.

1. Which of the following is a parse tree for the grammar $S \to abS$, $S \to ab$?



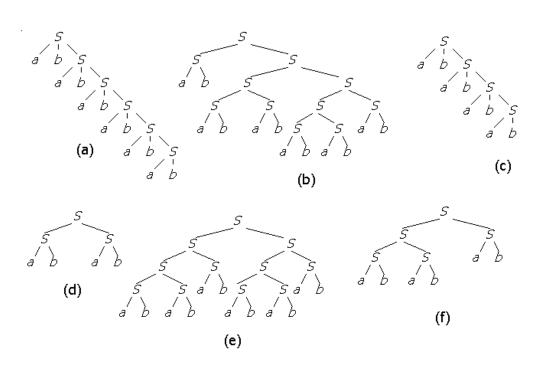


- a) (f)
- b) (c)
- c) (e)
- d) (d)

Answer submitted: b)

You have answered the question correctly.

2. Which of the parse trees below yield the same word?

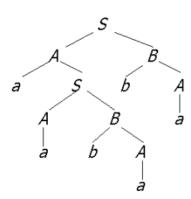


- a) c and d
- a and e
- a and f
- d) a and c

Answer submitted: b)

You have answered the question correctly.

THE PAISE LIEE DELOW TEPTESCHIS A HIGHLIOST METIVATION ACCORDING TO THE GRAPHINAL S -> AB, A -> ab | a, B -> bA.



Which of the following is a right-sentential form in this derivation?

- a) aababA
- b) abaAba
- aAbAba
- d) abaAbA

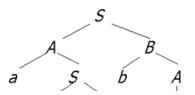
Answer submitted: **b**)

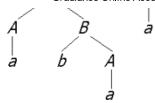
Your answer is incorrect.

This is a sentential form, but does not correspond to the parse tree. One derivation is S => AB => AbA => AbaS => AbaAB => abaAb => abaAbA => abaAba. The derivation of AbaS from AbA requires that the second A, corresponding to the right child of the right child of the root, is replaced by aS. However, in the parse tree, that A is replaced by a.

Section 5.2.5 (p. 188) talks about constructing leftmost derivations from parse trees. You should think about how to change that method to produce rightmost derivations instead. Also, see Section 5.1.4 (p. 177) for the definition of rightmost derivations.

4. Here is a parse tree that uses some unknown grammar G.





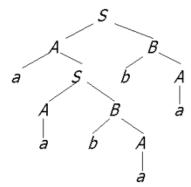
Which of the following productions is surely one of those for grammar G?

- a) $S \rightarrow A$
- b) $B \rightarrow ba$
- c) $S \rightarrow AB$
- d) $B \rightarrow b$

Answer submitted: c)

You have answered the question correctly.

5. The following is a parse tree in some unknown grammar G:



Which of the following productions is **definitely not** a production of G?

- a) None of the other choices.
- b) $A \rightarrow a$
- c) $S \rightarrow aC$
- d) $A \rightarrow aS$

Answer submitted: a)

You have answered the question correctly.

Copyright © 2007-2013 Gradiance Corporation.