



Zayd

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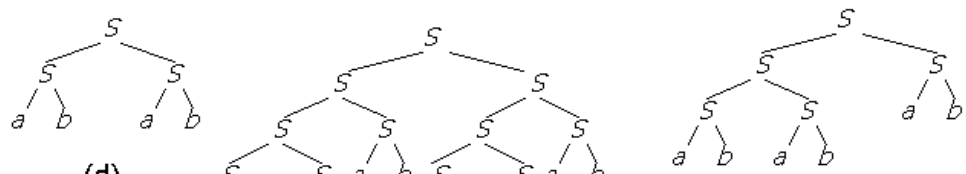
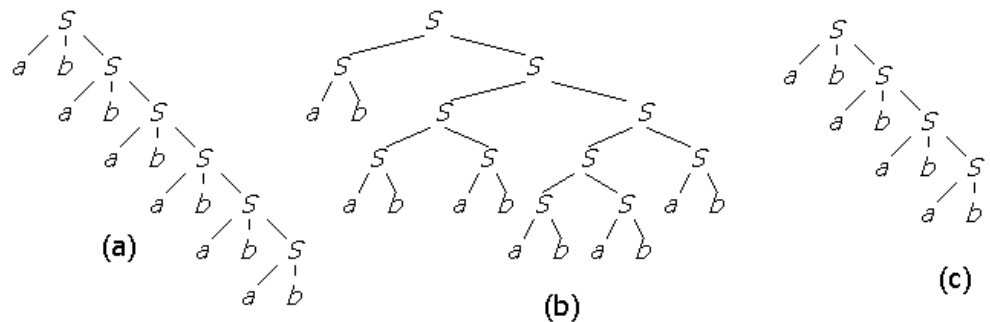
**Submission number:** 67683  
**Submission certificate:** HE120974  
**Submission time:** 2014-03-08 21:46:34 PST (GMT - 8:00)

**Number of questions:** 5  
**Positive points per question:** 3.0  
**Negative points per question:** 1.0  
**Your score:** 15

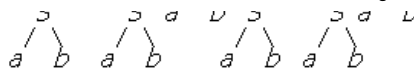
Selected questions on parse trees. Based on Section 5.2 of HMU.

[Help](#)

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



(u)



(f)

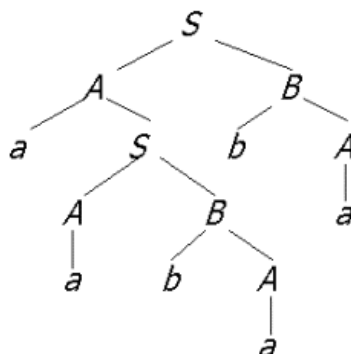
(e)

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

Answer submitted: **b)**

You have answered the question correctly.

2. The parse tree below represents a rightmost derivation according to the grammar  $S \rightarrow AB$ ,  $A \rightarrow aS|a$ ,  $B \rightarrow bA$ .



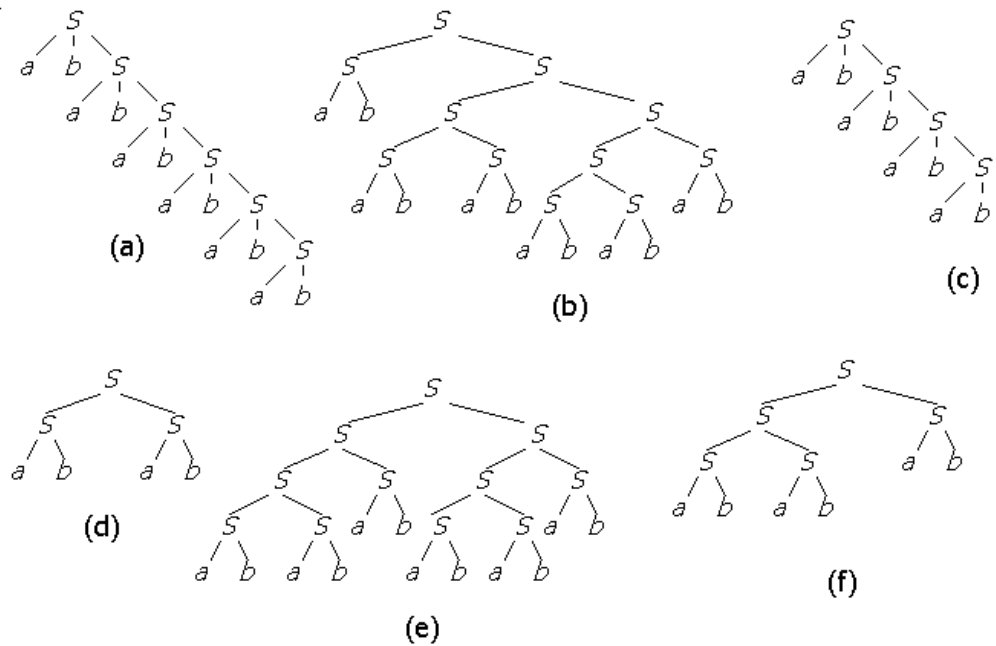
Which of the following is a right-sentential form in this derivation?

- a) aabAba
- b) aaBB
- c) aABba
- d) aSbA

Answer submitted: **c)**

You have answered the question correctly.

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

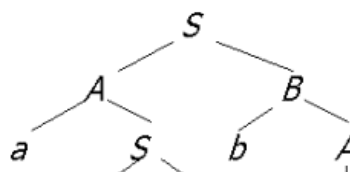


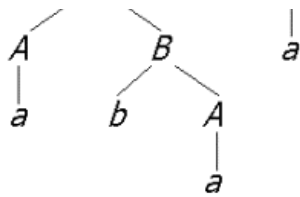
- a) a and b
- b) a and d
- c) c and d
- d) c and f

Answer submitted: a)

You have answered the question correctly.

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





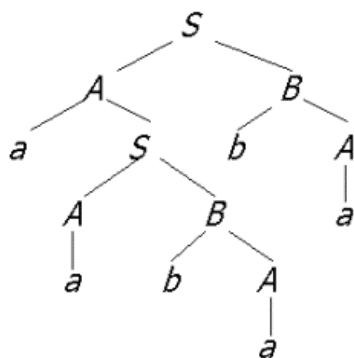
Which of the following productions is **definitely not** a production of  $G$ ?

- a) None of the other choices.
- b)  $B \rightarrow bA$
- c)  $S \rightarrow CB$
- d)  $A \rightarrow Ba$

Answer submitted: a)

You have answered the question correctly.

5. 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)  $A \rightarrow S$
- b)  $S \rightarrow A$
- c)  $S \rightarrow AB$
- d)  $S \rightarrow aSbA$

Answer submitted: c)

You have answered the question correctly.

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