



Zayd

- [Home Page](#)
- [Assignments Due](#)
- [Progress Report](#)
- [Handouts](#)
- [Tutorials](#)
- [Homeworks](#)
- [Lab Projects](#)
- [Log Out](#)

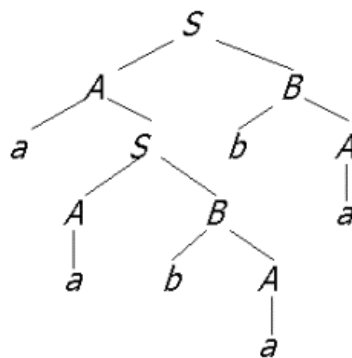
**Submission number:** 63580  
**Submission certificate:** JC857644  
**Submission time:** 2014-02-22 16:50:05 PST (GMT - 8:00)

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



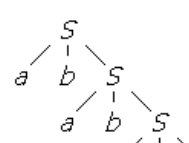
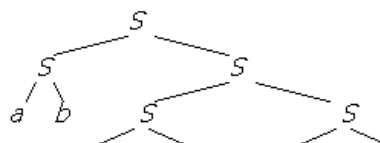
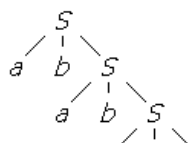
Which of the following productions is surely one of those for grammar  $G$ ?

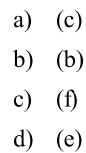
- a)  $A \rightarrow a$
- b)  $S \rightarrow AbA$
- c)  $B \rightarrow AS$
- d)  $S \rightarrow A$

Answer submitted: a)

You have answered the question correctly.

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





You have answered the question correctly.

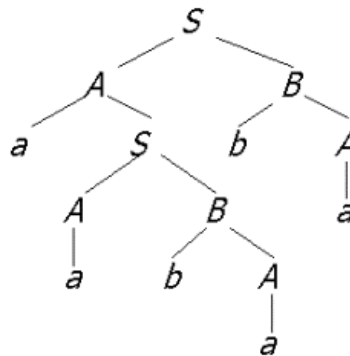
- 
- ```

graph TD
    S1[S] --- A1[A]
    S1 --- B1[B]
    A1 --- a1[a]
    A1 --- S2[S]
    S2 --- A2[A]
    S2 --- B2[B]
    A2 --- a2[a]
    B2 --- b1[b]
    B2 --- A3[A]
    A3 --- b2[b]
    A3 --- A4[A]
    A4 --- a3[a]
    B1 --- b2[b]
    B1 --- A5[A]
    A5 --- a4[a]
  
```

a) aSbA  
b) abaAbA  
c) aAbAba  
d) aababA

You have answered the question correctly.

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



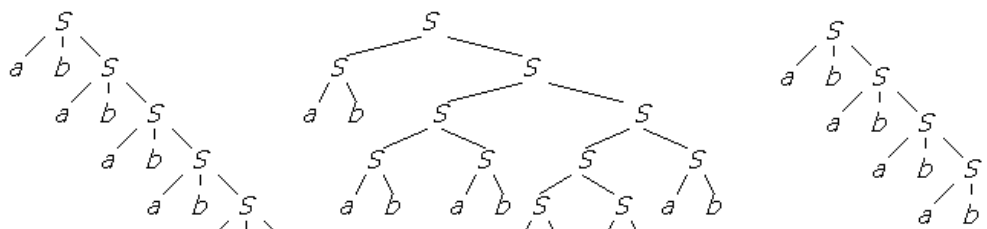
Which of the following productions is **definitely not** a production of  $G$ ?

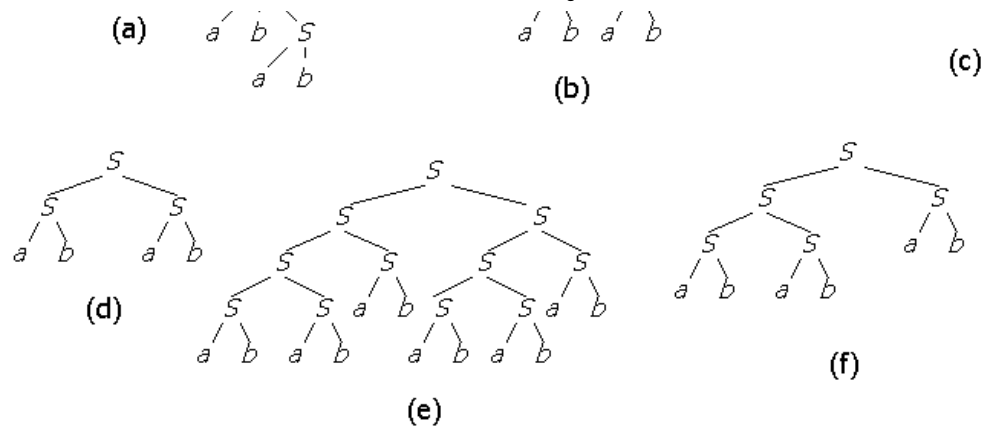
- a)  $S \rightarrow AB$
- b)  $B \rightarrow bA$
- c)  $B \rightarrow b$
- d) None of the other choices.

Answer submitted: **d)**

You have answered the question correctly.

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





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

Answer submitted: **b)**

You have answered the question correctly.