2009038002 학번 01 이름 方为世 분바

[Automata 2012 - 2 Homework]

[Automata Homework #5]

Exercises 5.1.3] Give a derivation tree for w = abbaabbaba for the grammar in Example 5.2

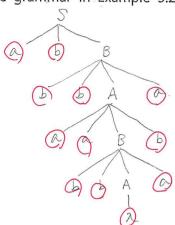
S-sabB

A- aaBb.

B-> bbAa,

A > 2

S= abB = abbbAa = abbbaabba => abbbaabbAaba=> abbbaabbaba derivation tree =>



Exercises 5.1.7] Find context-free grammars for the language $L = \{a^n b^m \mid n \neq m-1\}$

B -> bB | b a Bit of a Sibb A.

나는 무게씨 만든. (즉 anbin 현대)

Ti) ny m-1 2 ay

: S-> AS, SIB

S, - as, bb 12

B-> bB/b

Exercises 5.2.1] Find an s-grammar for $L = (aaa^*b + b)$

A -> aA 1 a s-grammar 2

* S-grammar

⇒ A → OSL (AEV, DET, REV*)

B→ b Trion 44 7. * aa* = { a" | n = 1} 0163

A→ OAIO을 石过时午 있다

Exercises 5.2.13] Show that the following grammar is ambiguous. $S \rightarrow aSbS|bSaS|\lambda$

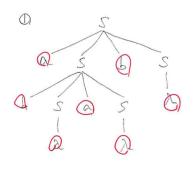
grammar 2+ ambiguous of & goldie, of Externi his the defination tree = 강님시 보이면 된다.

STOR abab on Entrank FIFTY derivation of > 15 ster.

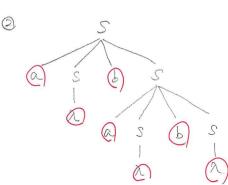
O S > asbs > absasbs \$ abab

@ s = asbs = asbasbs = abab

: TETUKO OI Grammar & ambiguous ofer.



: ab orb



· abab

[Automata 2012 - 2 Homework]

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[Automata Homework #5]

Exercises 5.1.3] Give a derivation tree for w = abbbaabbaba for the grammar in Example 5.2

the grammar
$$G = (\{A, B, S\}, \{a, b\}, S, P)$$

with productions

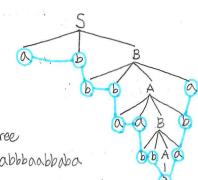
$$A \Rightarrow aaBl$$

$$A \Rightarrow aaBb$$
 $B \Rightarrow bbAa$

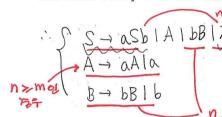


A defivation tree

for w=abbbaabbaba



Exercises 5.1.7] Find context-free grammars for the language $L = \{a^n b^m \mid n \neq m-1\}$



n+1=mの形 S→S,b S,→aS,b 入 キャがはい。

Exercises 5.2.1] Find an s-grammar for $L = (aaa^*b + b)$

$$L = (aaa + b + b)$$

S-> b : bothers sentence it st goes

ㅋ 발방등 Sentence의 메

S→aA: a7+立近 25亿 HERDE aa A BERR 許敬中 (S-grammare) 7部, 年27亿 胜號川 terminal symbol ol

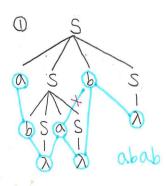
SHAR LIPHOF STEED)

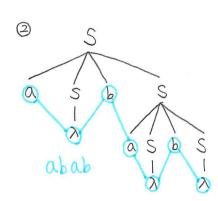
A -> aB: OTH 弘 2地 Heror 計記

B-7 0B/b: 0.971471+27HO1时相邻是个外空气,即时已经是好的

Exercises 5.2.13] Show that the following grammar is ambiguous. $S \rightarrow aSbS|bSaS|\lambda$

· Consider the Sentence about





-> Ambiguous oil String ZXH

Ambiguous of Grammar olet

학번 2009037068 확인 이름 김성영 분반 / 1 4RF 2

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Exercises 5.1.3] Give a derivation tree for w = abbbaabbaba for the grammar in Example 5.2

