CSC441 Compiler Construction - Quiz 2

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Quiz

Consider following grammar and select left factored form in the given options which should be the most appropriate answer *

$$Z \rightarrow X\ aec \mid X\ aed \mid f$$
$$X \rightarrow a \mid b$$

Option 1

$$Z \rightarrow X\ aZ` \mid f$$
$$Z` \rightarrow eZ``$$
$$Z`` \rightarrow c \mid d$$
$$X \rightarrow a \mid b$$

Option 2

$$Z \rightarrow X\ aeW \mid f$$
$$W \rightarrow c \mid d$$
$$X \rightarrow a \mid b$$

Option 3

$$Z \rightarrow XZ` \mid f$$
$$Z` \rightarrow aeZ``$$
$$Z`` \rightarrow c \mid d$$
$$X \rightarrow a \mid b$$

Option 4

$$Z \rightarrow a\ aeZ` \mid b\ aeZ` \mid f$$
$$Z` \rightarrow c \mid d$$

Consider following Predictive parsing table, Would it be possible for predictive parsing algorithm to complete its iteration and match $ with $ for following string "ibtae". *

	a	b	i	e	t	$
S	S → a		S →iEtSS'			
S'				S' → eS S' → ε		S' → ε
E		E → b				

- ( ) Yes
- (•) No

Grammar with the LL(1) property is called _____ *

- ( ) • Context free grammar
- ( ) • Regular grammar
- ( ) • Irregular grammar
- (•) • Predictive grammar

Left-factoring takes care of FIRST/FIRST conflicts. *

- (●) true
- ( ) False

Given grammar is can be made LL(1) if *

A → Ba | b
B → eCd | e
C → Df | g
D → Df | Aa | Cg

- ( ) left factoring is added in it
- (●) all the options are correct
- ( ) Left recursion removed from it
- ( ) we convert it to Right recursive grammer

Is it possible to parse the sentence “while id<id do ++ id” using the table and CFG given below *

1. prog → stmt
2. stmt → if expr then block
3. stmt → while expr do block
4. stmt → expr ;
5. expr → term => id
6. expr → isZero? term
7. expr → not expr
8. expr → ++ id
9. expr → -- id
10. term → id
11. term → const
12. block → stmt
13. block → { stmts }
14. stmts → stmt stmts
15. stmts → ε

	if	while	id	const	isZero?	not	++	--	{	then	do	;	=>	}	$
prog	1	1	1	1	1	1	1	1							
stmt	2	3	4	4	4	4	4	4							
expr			5	5	6	7	8	9							
term			10	11											
block	12	12	12	12	12	12	12	12	13						
stmts	14	14	14	14	14	14	14	14						15	

- ○ true
- ◉ false

Consider the following grammar, Where “old, and, men, women “ are terminals and “NP, N, Adj, Conj” are non-terminals. it is not suitable for LL(1) parsing because *

$NP \rightarrow Adj\ NP$
$NP \rightarrow NP\ Conj\ NP$
$NP \rightarrow Adj\ N$
$NP \rightarrow N$
$Adj \rightarrow old$
$Conj \rightarrow and$
$N \rightarrow men \mid women$

- ○ • It has null productions
- ◉ • It has left recursion
- ○ • It is left factored
- ○ • It has right recursion

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