Simple Precedence Parsing - Variant 7

$$G=(VN, VT, P, S,), VN = \{S, A, B, C\}, VT = \{a,b,c\},\$$

 $P={}$

1. $S \rightarrow aA$

 $2. A \rightarrow C$

 $3. A \rightarrow C b A$

4. $C \rightarrow d B$

5. B \rightarrow b

6. B \rightarrow a B }

1. First & Last

0	FIRST	LAST		
S	OL	A, C, & B, b		
A	C, d	A,C,B,b		
В	b, a	6,8		
С	d	B,b		

1. S -> αA (=) $\alpha = A$ A -> C

A > CbA (=) $\alpha = A$ C -> αB (=) $\alpha = B$

2. (3) Rule

S-) aA (=) a Z First (A)

a Z 1 (E, a)

A-) C

A-) C bA (=) b Z First (A)

b Z f (C, a)

C-) dB (=) d Z First (B)

B-) a B (=) a Z first (B)

a Z 1 (B)

a Z 1 (B)

3. Precedence Table

	S	A	В	C	a	b	С	d	\$
S	+								>
	-								>
Α						3			>
В						-			-
C						-			+
a		-	_	<	1	4			>
b		=		4		7		1	>
С									>
d			_		1	1			>
		<			<	<	<	<	>
\$	<	< .							

4. Parsing

W = adbbdb

1.
$$4adbbolb$$
 $4adbbolb$
 4