Substring Length ---

1=3

S -> AB | BC

A -> BA | a

B -> CC | b

C -> AB | a

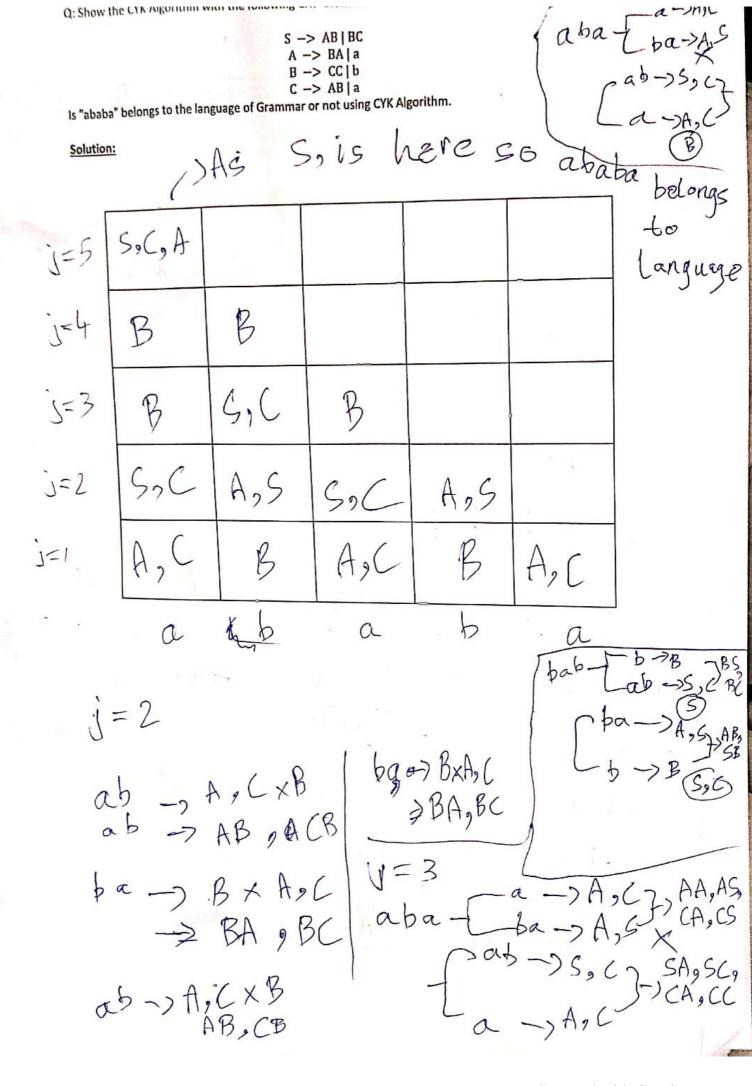
Is "bbbaa" belongs to the language of Grammar or not using CYK Algorithm.

Solution:

No, it doesn't belongs to this grammer.

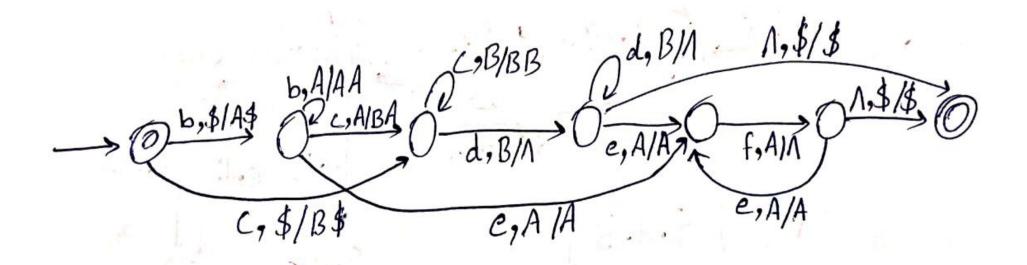
5	6	_			
4	A	p	}		
3	ø	A	þ	1	
2	<i>p</i>	\$	A,S	В	_
t	В	B	В	A,C	A,C
	Ь	ь	b	a	a

bbba b bba = BA = A bb ba = P bbb a = P	bbaa b'baa B g bb aa g bba'a A (AC)	b ba bb/a B As	Ь bb В \$ bb	AA AC CA CC
bbbaa b bbaa B f bb baa f	4A = \$ AC = \$	BA, BS	ba a  A,S A,C  AA \$ AC \$	b aa B B
bbb aa p bbba a A A,C	AA AC-		SA & SC &	



		A B C	-> AB   BC -> BA   a 3 -> CC   b 5 -> AB   a ar or not using CYK A	olgorithm.	0,00000 00,0000 00,000 000 000,000 000	(A,C) x B B x (S,C,A) S,C,A) xB - Bx (A,C)		
j +5	(S)C,A					BS, BC, BA × (S) (A)		
j=4	B	В			f.	SB, CB, AB × × S,C BA BC		
j = 3	S.C,A	S,C,A	S,c, A			adada		
1=2	В	В	В	B				
j=1	A,C	A،c	A,c	A,c	A,C			
$\frac{yes}{as to belows to the grammar}$ acida $\frac{yes}{as top most}$ box has starting that $\frac{yes}{acid}$ acida $y$								
0,000 00,000 00,00 000,00	- 10	c)x (s,c,1 x B — s,c,A) x	A) — A — 8B (A,C) —	, x, x , AC, AP , sA, šc,	× × × × × × × × × × × × × × × × × × ×	× В ′ < <del>С</del>		

$$b^{m}c^{n}d^{n}(ef)^{m}$$
 $\Lambda$ 
 $m \ge 01$ 
 $m \ge 0$ 
 $m \ge 0$ 
 $m \ge 1$ 
 $m \ge 1$ 
 $m \ge 1$ 



Q1: Design a PDA for the following Language.

City of the following Language.

$$L = \{(ab)^m c^n d^n e^m; m, n \ge 0\}$$

$$a^m b^m c^n d^n e^m; m, n \ge 0\}$$

$$2 ab c de [(n > 0, 1 > 0)]$$

$$3 ab e d ((n > 0, 1 > 0))$$

$$4 ab e d ((n > 0, 1 > 0))$$

$$5 ab e d ((n > 0, 1 > 0))$$

$$5 ab e d ((n > 0, 1 > 0))$$

$$6 ab e d ((n > 0, 1 > 0))$$

$$7 ab e d ((n > 0, 1 > 0))$$

$$2 ab e d ((n > 0, 1 > 0))$$

$$2 ab e d ((n > 0, 1 > 0))$$

$$3 ab e d ((n > 0, 1 > 0))$$

$$4 ab e d ((n > 0, 1 > 0))$$

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$$4 ab e d ((n > 0, 1 > 0))$$

$$4 ab e d$$

C14108

Q1: Design a PDA for the following Language.

L contains twice more a's than b's language over  $\{a,b\}$ 

