

a) $X \rightarrow YZ|a$
 $Y \rightarrow bZ|\lambda$
 $Z \rightarrow \lambda$

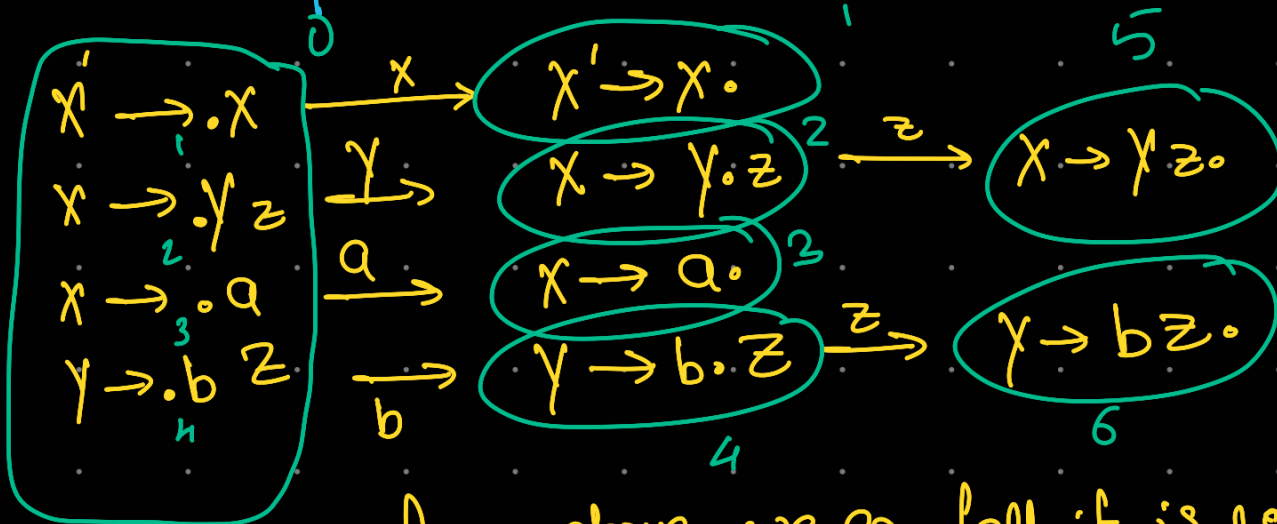
LL(1) or LR(0)
 or SLR(1)?

	first	follow
X	{a, b, z}	{ ϕ }
Y	{b, λ }	{ ϕ , z}
Z	{ λ }	{z}

	a	b	z	ϕ
X	$X \rightarrow a$	$X \rightarrow Yz$	$X \rightarrow Yz$	
Y		$Y \rightarrow bz$	$Y \rightarrow \lambda$	
Z			$Z \rightarrow \lambda$	

The given
 \Rightarrow grammar is
 LL(0)

0) Check if the above is LR(0) or SLR(0)

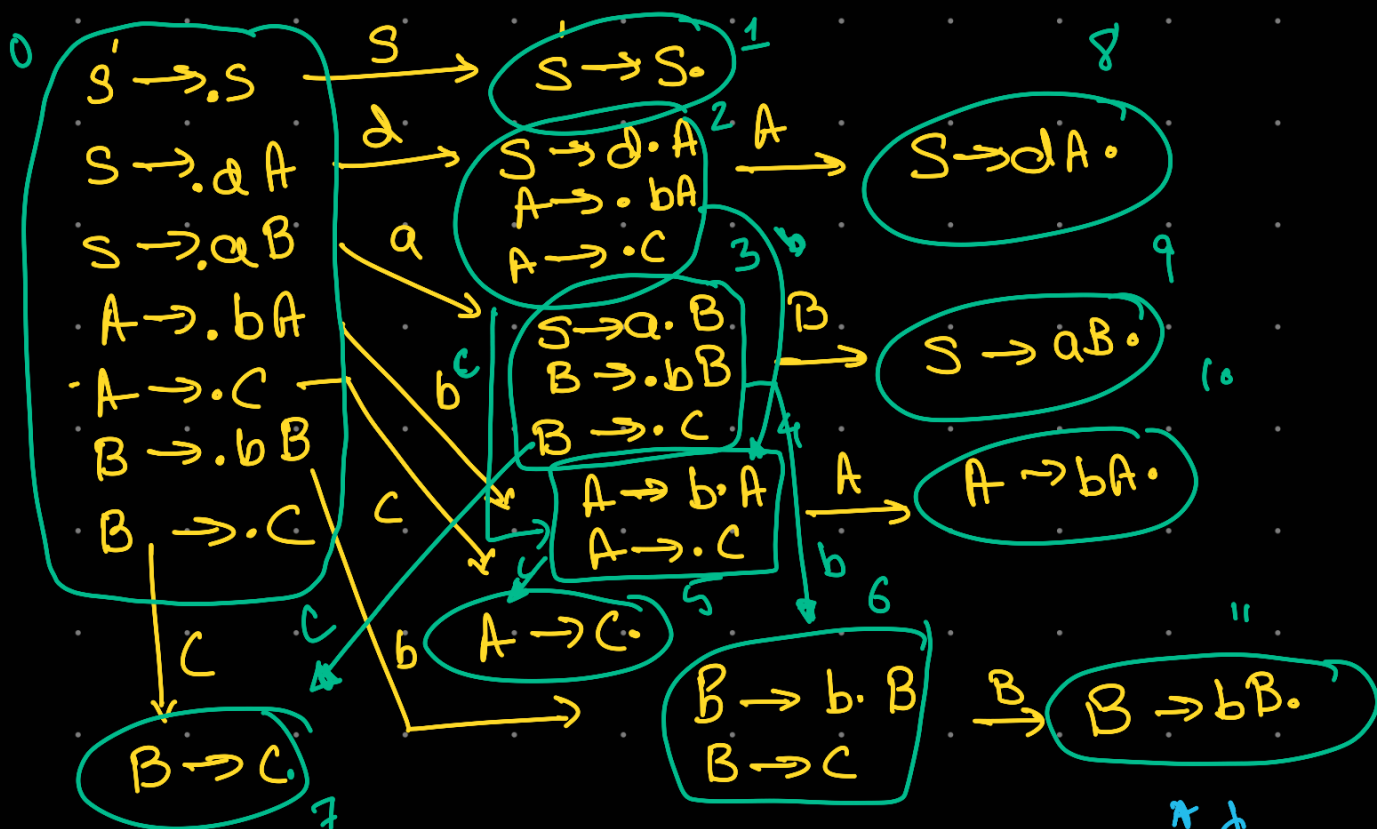


from above we can tell it is not

LR(0) \Rightarrow It maybe in SLR(0)

The given problems follow above shows it is
 not SLR(1) grammar either.

0)

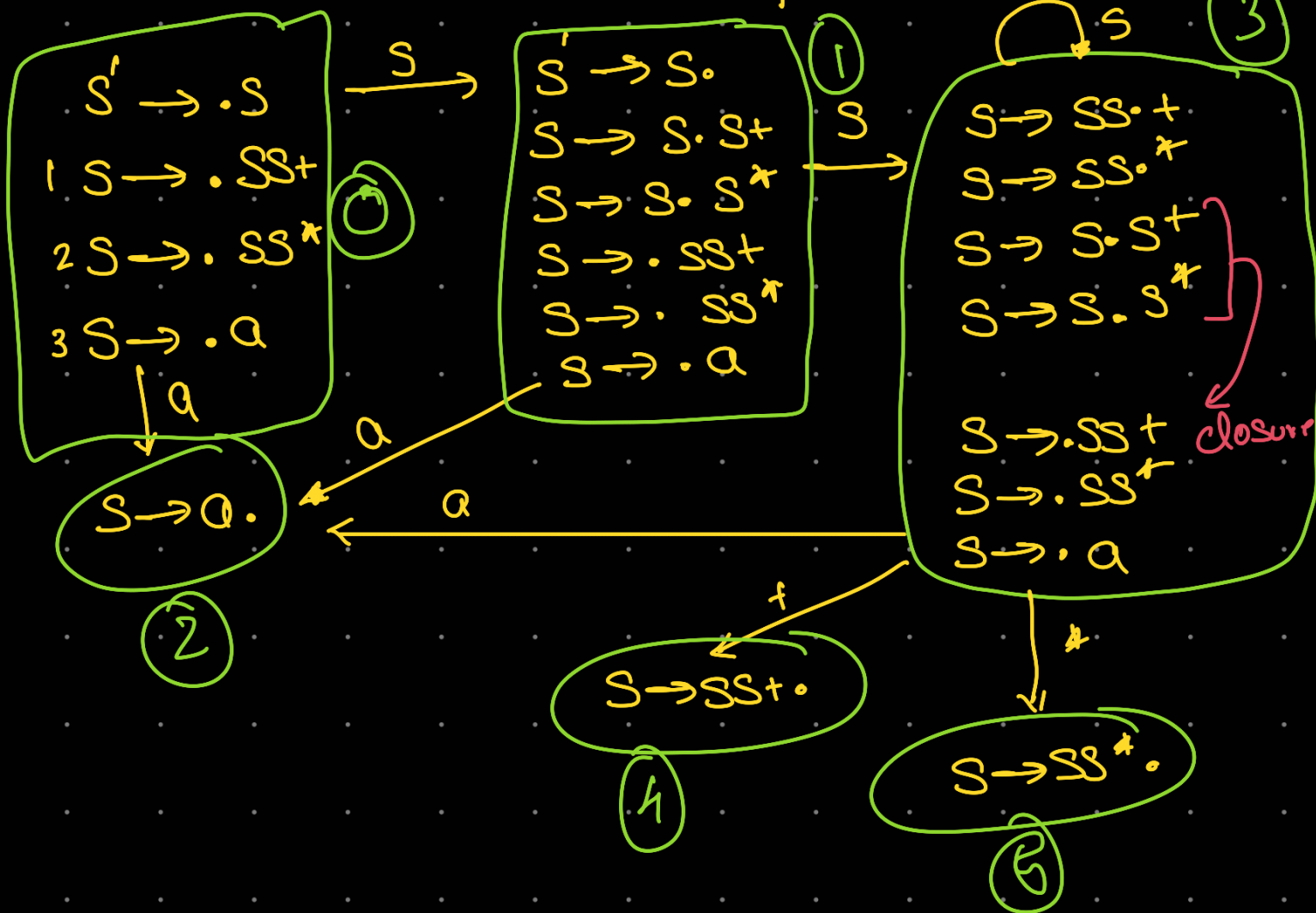


string $\rightarrow aa^+aa^+\$$

a)

$S \rightarrow SS+ \mid SS^* \mid a$

$\text{follow}(S) = \{ \$, +, * \}$



state	Action	goto
	$a + * \$$	S
0	2	1
1	2 acc	3
2	$r_3 \ r_3 \ r_3$	
3	2 4 5	3
4	$r_1 \ r_1 \ r_1$	
5	$r_2 \ r_2 \ r_3$	

$\$0 \quad aa + aa^* \$$ shift 2
 $\$0a_2 \quad a + aa^* \$$