

①

$$a) S \rightarrow (S)S \mid [T]S \mid \varepsilon$$

$$T \rightarrow [S]S \mid \varepsilon$$

$$b) S \rightarrow [T]S \mid \varepsilon$$

$$T \rightarrow (S)S \mid \varepsilon$$

$$c) S \rightarrow T \mid R \mid \varepsilon$$

$$T \rightarrow [S]R \mid \varepsilon$$

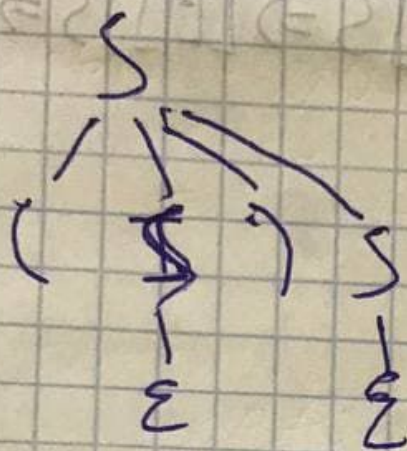
$$R \rightarrow (S)T \mid \varepsilon$$

$T \rightarrow [S]R \mid \epsilon$
 $R \rightarrow (S)T \mid \epsilon$

$S \rightarrow T \mid R$
 $T \rightarrow [S]$
 $R \rightarrow (S)$

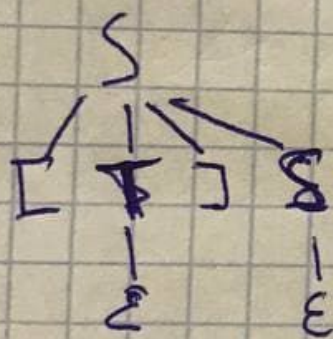
② Cannot report

a) ()



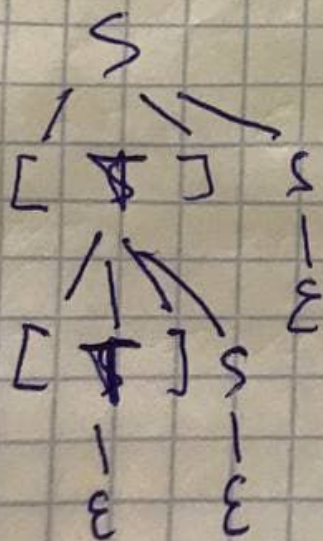
$S \Rightarrow (S)S \Rightarrow ()S \Rightarrow$

[]



$S \Rightarrow [S]S \Rightarrow []$

[[]]



$S \Rightarrow [T]S \Rightarrow [[S]]$

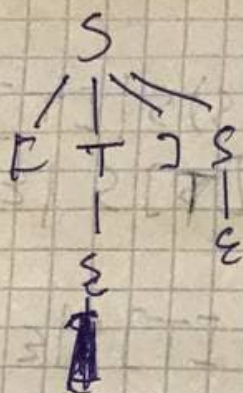
He says

[() ,) (

He npruayre

[()] ,)()

5) []



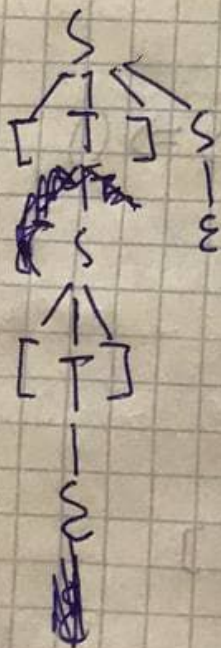
$$S \Rightarrow [T]S \Rightarrow []$$

[()]



$$S \Rightarrow [T]S \Rightarrow [(S)]S \Rightarrow [()]$$

[[]]

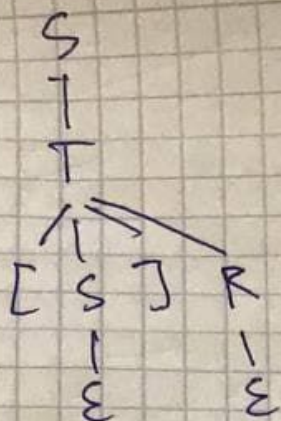


$$S \Rightarrow [T]S \Rightarrow [S]S \Rightarrow [[]]S \Rightarrow [[]]$$

He npruayre

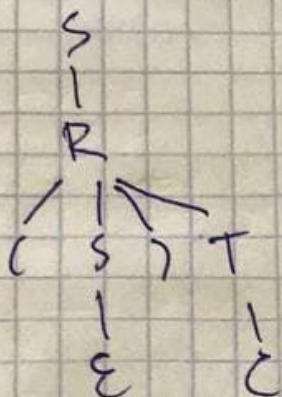
() , [[()]]

6) $[]$



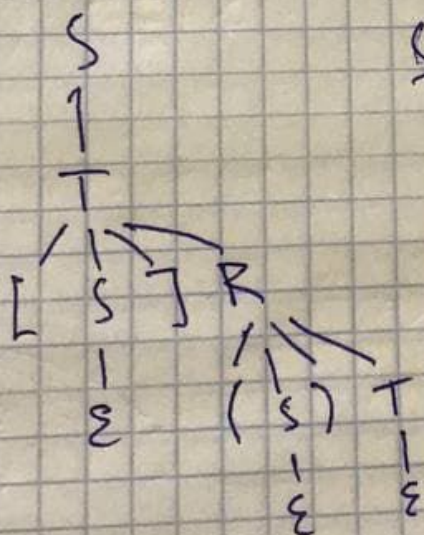
$$S \Rightarrow T \Rightarrow [S]R \xRightarrow{2} []$$

()



$$S \Rightarrow R \Rightarrow (S)T \xRightarrow{2} ()$$

$[] ()$



$$S \Rightarrow T \Rightarrow [S]R \xRightarrow{2} [](S)T \xRightarrow{2} [] ()$$

the expression

$[] []$

$() ()$