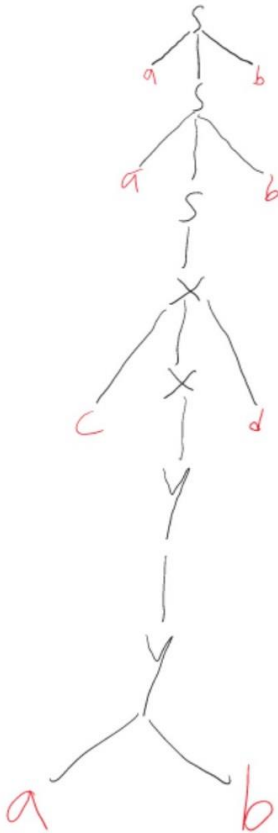
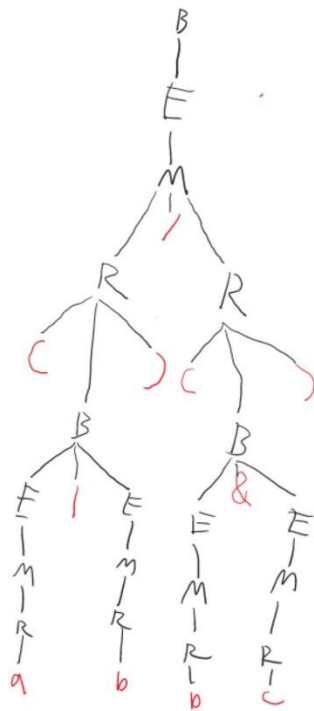


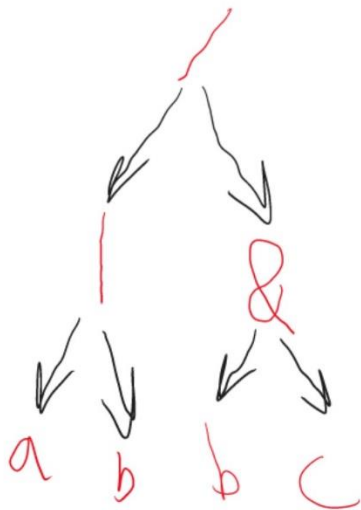
1.  $a^n c^o a^m b^m d^o b^n$
2.  $S \rightarrow aSb \rightarrow aaSbb \rightarrow aaXbb \rightarrow aaXdbb \rightarrow aaXYdbb \rightarrow aacabdbb$



- 3.
4.  $S \rightarrow SS \rightarrow (S)S \rightarrow ()S \rightarrow ()$   
 $S \rightarrow S \rightarrow (S) \rightarrow ()$
5.  $B \rightarrow B|E \mid B\&E \mid E$   
 $E \rightarrow E+M \mid E-M \mid M$   
 $M \rightarrow M^*R \mid M/R \mid R$   
 $R \rightarrow (B) \mid a \mid b \mid c$



6.



7.

8.  $/|ab\&bc$

9.  $ab|bc\&/$