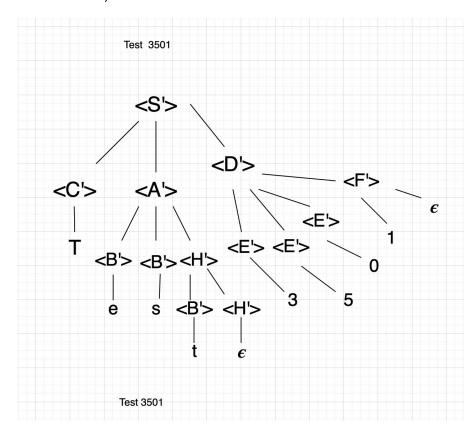
a) Grammar

$$\begin{array}{l} \to \\ \to A|B|C|D|E|F.... \ X|Y|Z \\ \to \\ \to | ϵ \\ \to a|b|c|d|e|f|g|...x|y|z \\ \to \\ \to | ϵ \\ \to o|1|2|3|4|5|6|7|8|9 \\ Terminals = \{A,B,C,...X,Y,Z,a,b,c,...x,y,z,0,1,2,...9\} \\ Variables = \{S',C',A',H',B',D',E',F'\} \end{array}$$

b)



```
<expr> \rightarrow <var> <expr> type = int \rightarrow <var> type = int <expr> type = float \rightarrow <var> type= float/int <var> \rightarrow A|B|C  <var> type = int \rightarrow A type = int | B type = int | C type = int  <var> type = float \rightarrow A type = float | B type = float | C type = float
```