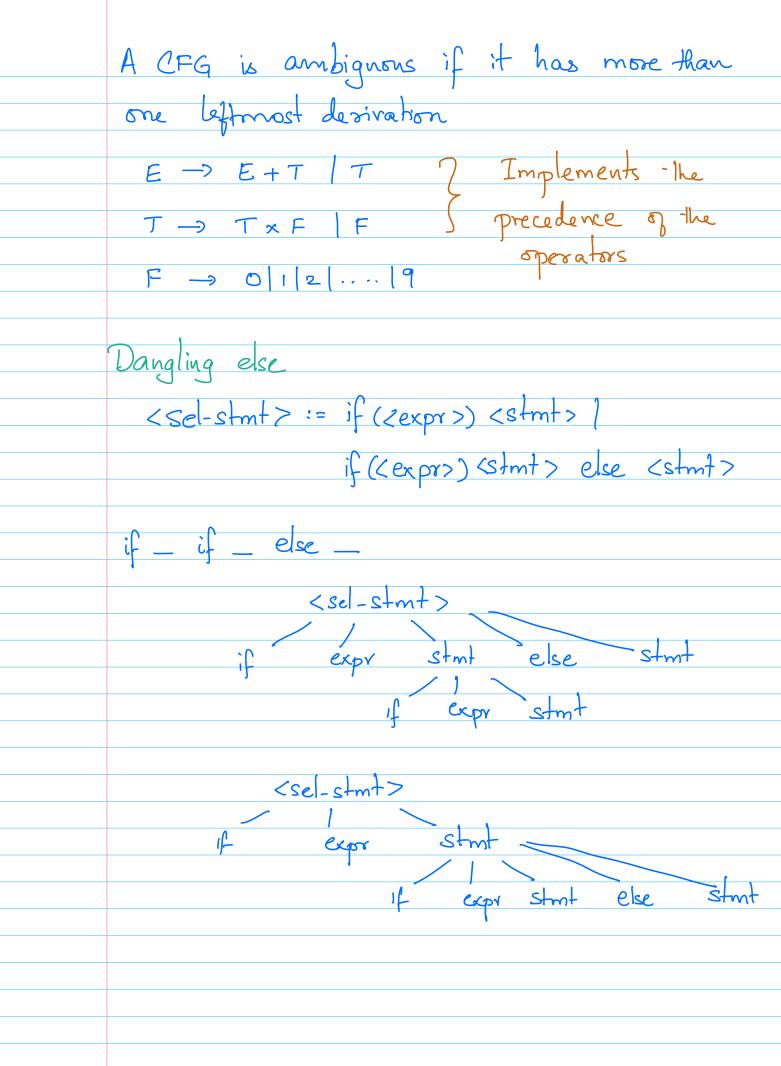
```
heftmost derivations: Each time expand the
left-most non-terminal using a production
vale.
E-> E+E | Ex E | 0 | 1 | 2 | ... | 9 | 1 + 2x3 + 4
                      parsed as (1+2) x (3+4)
                      parsed as 1+2x (3+4)
                 parsed as 1+ (2x3) +4
```



<stmt> := <matched > 1 < unmatched> <matched > := 'if <expr > <matched > else <matched> <matched > := <non-sel-strut > <unmatched>:= if <erp>> <strnt>) if <expr> <matched> else <nnmallas Inherently ambignous languages L= Saibjckdl | i=j and k=l or i=l and j=k} Closure properties - Union S-> S1 | S2 $S_1 \rightarrow \dots$ $S_2 \rightarrow \dots$ - Concatenation S -> S1. S2 $S_z \rightarrow ...$ - Kleene closure S-> SS, / E S₁ --> · · · Not closed under intersection and Complementation