Cousider a Coupuege et concateneted instructions. The instructions can be blocks on other instructions. A Glock cousisis of a declaration of variables (ty e nt or real) followed by a concatenation of instructions. Define au SDT suitable for TOP-DOWN parsing the calculates for each instruction au attribute of depth aux a attribute of scupation. The depth is the number of blocks in which the instructions is euclosed. For blocks

The occupation is, the moximum number of bytes needed to host the voi obles defined in the block (and sets blocks) *

Considering that integers require Z bytes and real 4 bytes. EXAMPLE #Legin var a, b, c: integer; \$5;
#Sbegin var d: reel; S#4 S, S', S'', S''' or sequences of instructions that one hot blocks. #1: depth=0, occ=10 #2:1,0 #3:1,4 #42,0 #5:1,2 #6:2,0 #7:2,0 #8:0,0

Prog - Block Block - Decl; Com Rest Of Prog end Restoffreg v; Com Restoffreg E or evoiding Ceft- recursion Com - Block Com 10 Stat not block Dece to vor Id List I'd: Type for averding loft recursion List Id -> 5 Id List Id E Type > integer | Zeed