Thoma Mixtun Production Somertic Ruler Syntherzed attable Mishin (54250 T'inh = F. Val T-AFT! 3/20/18 HW2 Tral = T'syn T1'.inh = T'.inh * F. val T'->*FTI inh = inhorited attribute T'. syn = T1'. syn T'>E syn = synthesized attribute T'syn = T'inh F-JD F. val = id. lexval Synthesized attribute: take values from child moder. S-attributed. · Inherited attribute: taker value from parent or sibling moder, L-attributed Compute weathert pre condition 2) a=2*b+1; a=340 a) b= 0-3; (a<3/ 46607 2*(6-1)-1>0 b) a=2*(b-1)-1 40707 26-2-1>0 6>3/2 2* at1 >1 or & 7. c) if (n == b) 2*921 b=2*a+1; 2a+1>1 2a+2>17 イタンシュ 20>0 - 20/2 1/2 8/se b= 2*0; rule of consequence pg. 173 a >0 /a> /2 86>17 e) if (x>y) 3x-1>3 2X+1>3 3x>4 Y=2*X+1 2x >2 X>4/3 else X>1 Y= 3*x-1

£Y>37

rule of-integuence

92 b c n>1 5 946202, 96630, 986404, -- 7 < letter seg > -> < g seg > (b seg > (c seg) < a seg > a I (a seg > a) (6 seg) -> 61 (6 seg)6 (crop) -> c] (erap)c condition size (a say 72" = size (b seg) + size (cseg) size (b stg) = size ((seg) h 0/1/6'0'/6'1' d d'1'/d'2'/.../d'9' $k \Rightarrow V \circ V$ $V \Rightarrow d / var$ $0 \Rightarrow +/*$ mb('0') = 0 mb('1') = 1 mb(bm(0)) = 0mb ('1') = 1 mb (bin 10') = 2*mb (bin) + 0 mb (bin 1') = 2*mb (bin) + 1 md ('0')=0 md (dec'0')=(0' md (dec)+0
md ('1')=1 md (dec'1')=(0' md (dec)+1 md (1911=9 md (dee 191) = 10 md (dee) +9 $E \rightarrow V \circ V/V$ $V \rightarrow b/yar$ 0 -> + / * = /4/>/>=/4= CAR grass first elevent from the list CAR (a,b,c) => 9 COR grass excepting but forst elevent from a list EDR (01,6,0) - Db 10 Define (member atm a-list) zinputs ((m) 17. on - lost) # F) & asking if a list ((EQ atm (100) ((and ((Else (mun bor atm (look a - Hot))) deliver atm as the remaining elevents of a-lot that or not the first 2

f(x) defortion not bond by an identitate (+ (+ (* a (* XX))(* bx) ()) · A landa expression explicit int a implicit vartype binding is done by a congiler.