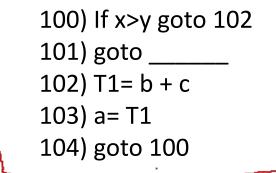
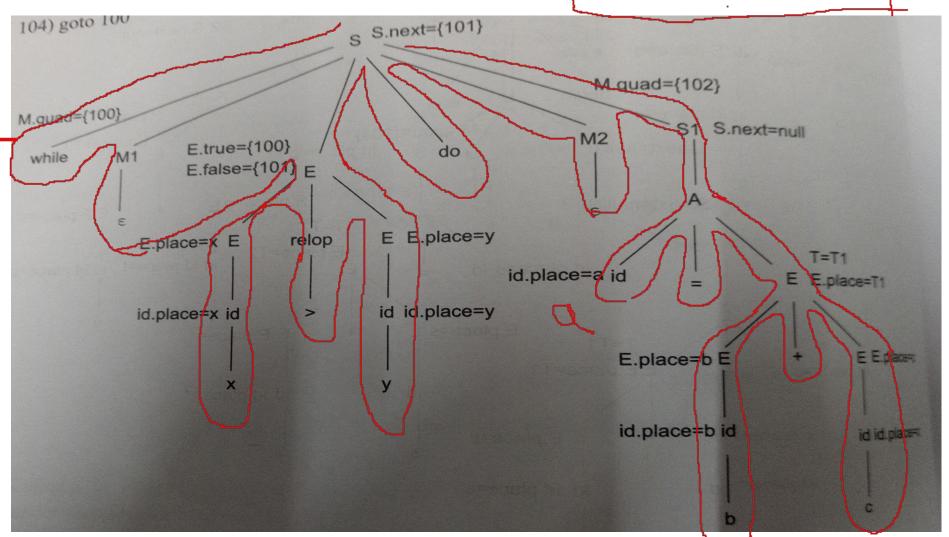
SDTS for Loops, ARRAY

SDTS for loops

Production	Semantic Rule
S□if E then M S1	backpatch(E.true,M.quad);
	S.next= merge(E.false,S1.next);
S□if E then M1 S1 N else M2 S2	backpatch(E.true,M1.quad);
	backpatch(E.false,M2.quad);
	S.next=merge(S1.next, merge(N.next, S2.next);
S□while M1 E do M2 S1	backpatch(S1.next, M1.quad);
	backpatch(E.true,M2.quad);
	S.next= E.false; gen('goto' M1.quad)
S □ do M1 S1 while M2 E	backpatch(S1.next,M2.Quad);
	backpatch(E.true = M1.Quad);
	S.next = E.false;
M□€	M.quad = nextquad;
N□€	N.next= makelist(nextquad),
	gen(goto)

while
$$(x>y)$$
 do $a=b+c$





100) a=1 101) T1=x*y 102) b=T1 103) If p>=s goto 100 104) goto _____

