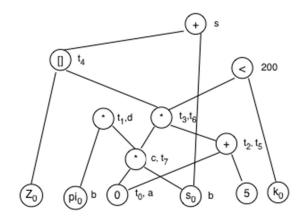
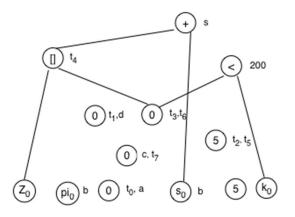
I -> for id1 in id2	{ id1.pos = BuscaPos(id1.nom);
	id2.pos = BuscaPos(id2.nom);
	<pre>If (BuscaTipo(id2.nom) != tvector(tentero) yyerror("id2 no es array");</pre>
	I.nelem = Busca_NumElementos(id2.nom)
	I.cont = CrearVarTemp(); I.temp = CrearVarTemp(); emite(I.cont ':= 0');
S	
	I.inicio = SIGINST ;
	I.fin = CreaLans(SIGINST); emite('if' I.cont '>=' I.nelem goto)
	emite(I.temp ':=' I.cont '*' TallaEntero);
	emite(id1.pos ':=' id2.pos '[' I.temp']');
do I	
	emite(I.cont ':=' I.cont '+' S.incr);
	emite('goto' I.inicio);
	CompletaLans(I.fin,SIGINST);
S -> step E	S.incr := E.pos
S -> epsilon	S.incr := CrearVarTemp();
	emite (S.incr ':=' 1);

Otra alternativa:

I -> for id1 in id2	{ id1.pos = BuscaPos(id1.nom);
	id2.pos = BuscaPos(id2.nom);
	<pre>If (BuscaTipo(id2.nom) != tvector(tentero) yyerror("id2 no es array");</pre>
	I.nelem = Busca_NumElementos(id2.nom)
	S.cont = CrearVarTemp(); I.temp = CrearVarTemp();
	emite(S.cont ':= 0');
	emite(goto SIGINST '+' 2);
	I.inicio = SIGINST ;
S	
	I.fin = CreaLans(SIGINST); emite('if' S.cont '>=' I.nelem goto)
	emite(I.temp ':=' S.cont '*' TallaEntero);
	emite(id1.pos ':=' id2.pos '[' I.temp']');
do I	
	emite('goto' I.inicio);
	CompletaLans(I.fin,SIGINST);
S -> step E	emite(S.cont ':=' S.cont '+' E.pos);
S -> epsilon	emite(S.cont ':=' S.cont '+' 1);

4.-

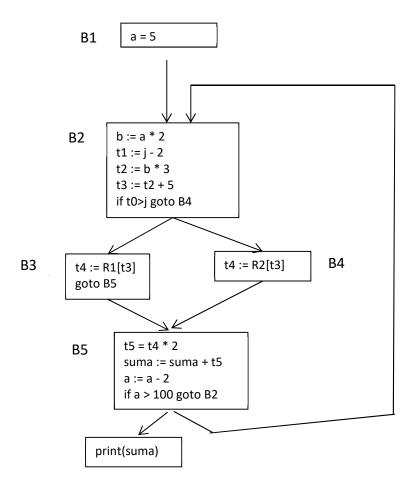




t4 := Z[0] s := s + t4 if (0 < k) goto 200



(101 a = 5 (102) b := a * 2 (103) t1 := j - 2 (104) t2 := b * 3 (105) t3 := t2 + 5 (106) if t0>j goto 109 (107) t4 := R1[t3] (108) goto 110 (109) t4 := R2[t3] (110) t5 = t4 * 2 (111) suma := suma + t5 (112) a := a-2 (113) if a > 100 goto 102 (114) print (suma)



Arista de retroceso: B5->B2 Bucle natural: B2, B3, B4 y B5 Código invariante: t1:= j - 2

Variables de Inducción: a (a,1,0); b (a,2,0); t2 (a,6,0); t3 (a,6,5)

