Da semántica a for x:=a1 to a2 do 5 para que sea equivalente a begin var z:=a2; x:=a1; while (x \le Z) do (5, x:=x+1) en con \(\alpha \in V(S) \) <x:=01, s[zin/[[0]]s]> -> 5', < \$15"> -> 5", < for x = x+1 to A (A[02]s) do 5, 5"> > 5" < for x := a, to o2 do S, s> -> s "[Z+>sz] wando ALXS N (Rlaz Is)] s'= ++ < x = a, s[z +> Alaz] s]> > s! [for ff] < for x := a, to az do s, s> ->s'[zpsz] counds A[x>N-(R[az]s)]s'=ff. s: A[x < Z] s" = H < 2:= 02,5> -> 51, < x:= a1,51> -> 511, < 5,5"> -> 511, fortt] < For x = x+1 to N (Allaz) s) do S, 5""> >> 5" < For x:=a, to a2 do S, s> > siv [Z >sz] for ff $\langle Z_{12}\alpha_{2}, S \rangle \rightarrow S', \langle X_{12}\alpha_{1}, S' \rangle \rightarrow S''$ s: M[x < 2] s"-ff < for x:= a1 to a2 do 5, 5> >5" [7 >5]