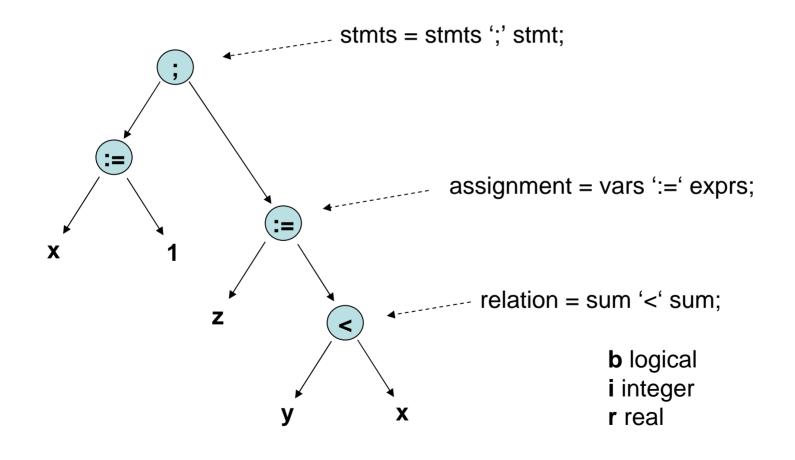
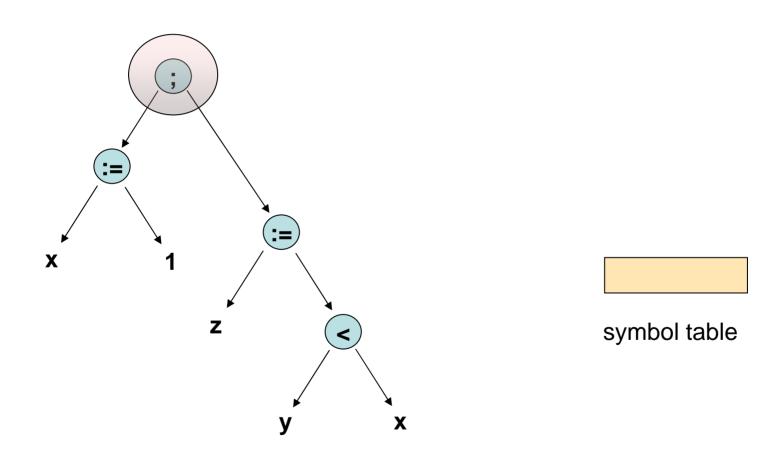
Type Inference Example -- 1 source text: x:=1; z := y < x Abstract Syntax Tree:



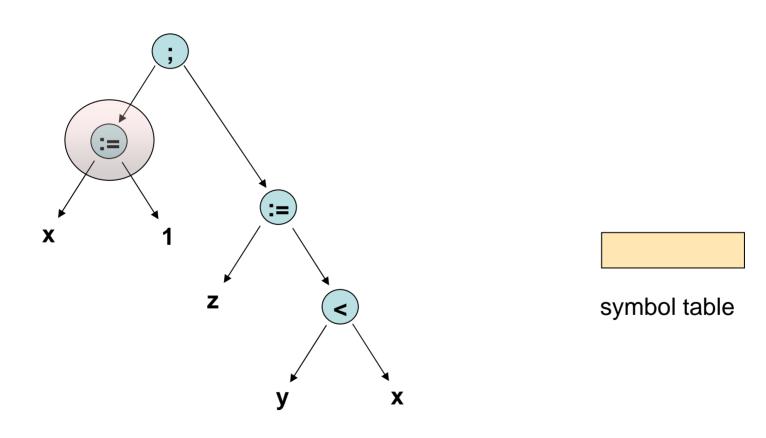
Type Inference Example -- 2 source text: x:=1; z := y < x initial state:



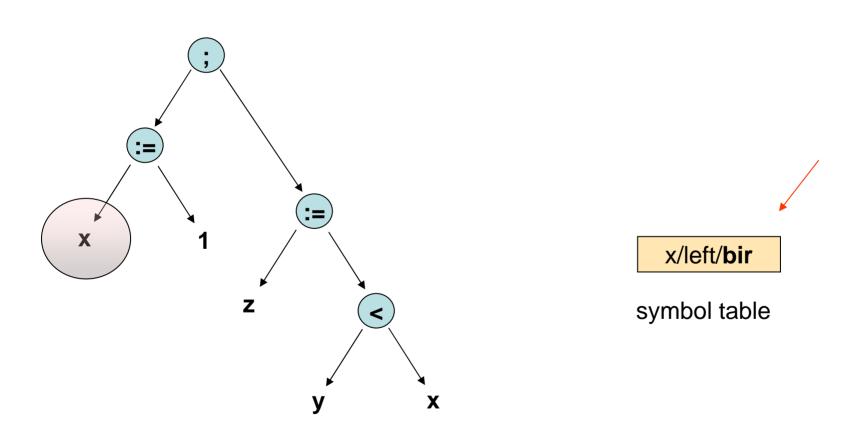
Type Inference Example -- 3

source text: x:=1; z := y < x

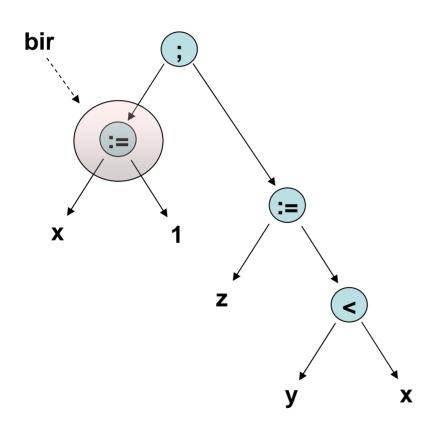
visit 1:



Type Inference Example -- 4 source text: x:=1; z := y < x visit 1:

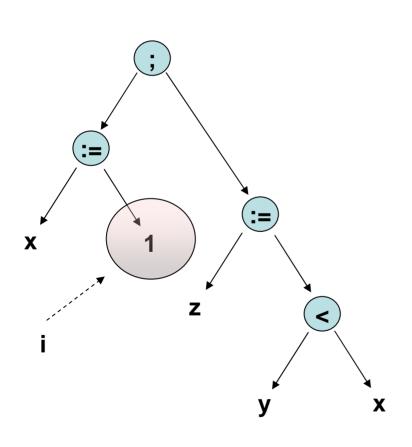


Type Inference Example -- 5 source text: x:=1; z := y < x return:



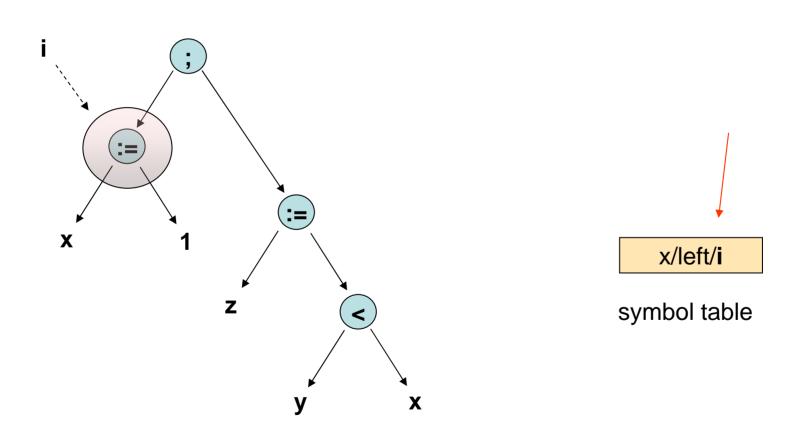
x/left/bir

Type Inference Example -- 6 source text: x:=1; z := y < x visit 2:

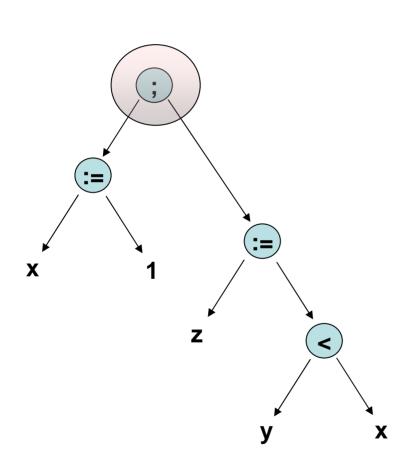


x/left/bir

Type Inference Example -- 7 source text: x:=1; z := y < x return:

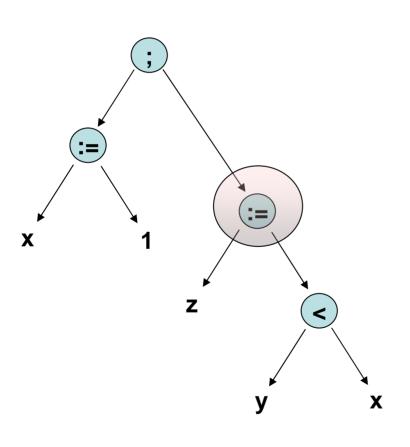


Type Inference Example -- 8 source text: x:=1; z := y < x return:



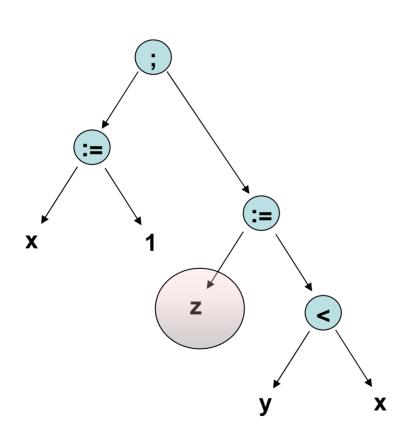
x/left/i

Type Inference Example -- 9 source text: x:=1; z := y < x visit 2:



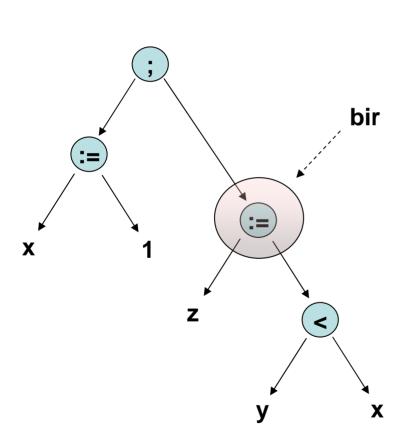
x/left/i

Type Inference Example -- 10 source text: x:=1; z := y < x visit 1:



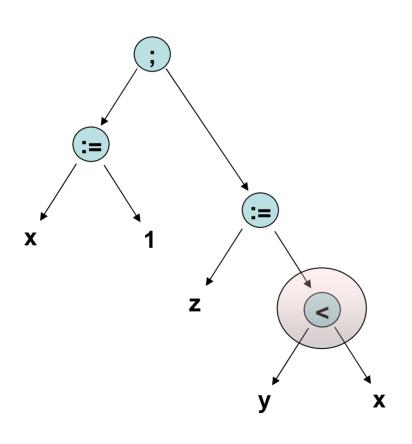
z/left/bir x/left/i

Type Inference Example -- 11 source text: x:=1; z := y < x return:



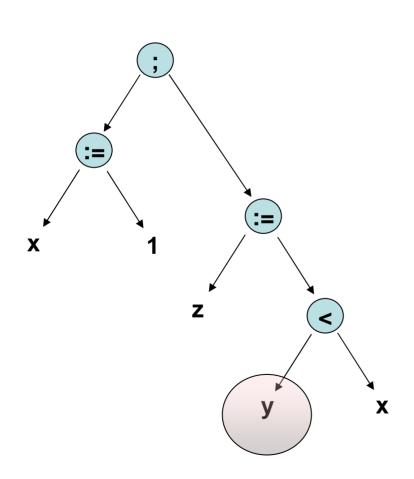
z/left/bir x/left/i

Type Inference Example -- 12 source text: x:=1; z := y < x visit 2:



z/left/bir x/left/i

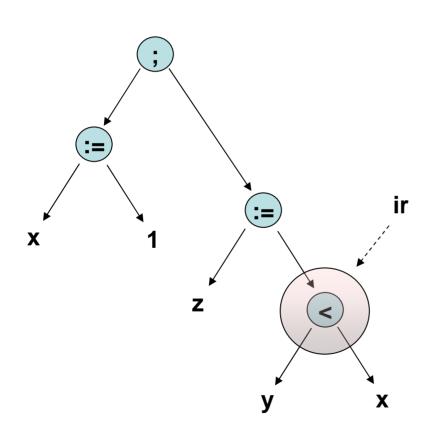
Type Inference Example -- 13 source text: x:=1; z := y < x visit 1:



y/right/**ir** z/left/**bir** x/left/**i**

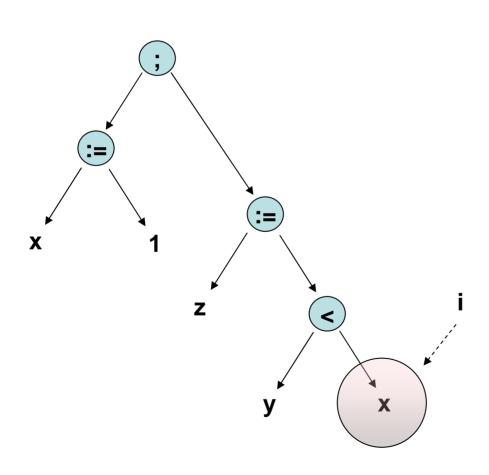
Type Inference Example -- 14 source text: x:=1; z := y < x

return:



y/right/ir z/left/bir x/left/i

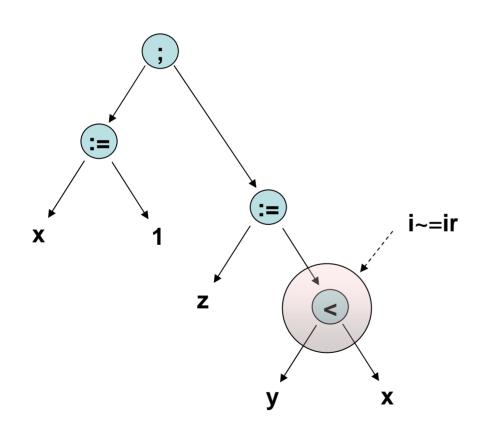
Type Inference Example -- 15 source text: x:=1; z := y < x visit 2:



y/right/**ir** z/left/**bir** x/leftright/**i**

Type Inference Example -- 16 source text: x:=1; z := y < x

return:

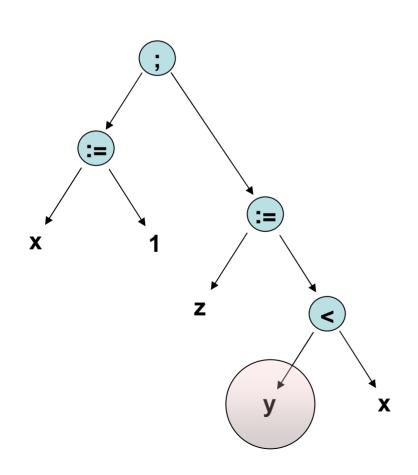


y/right/**ir** z/left/**bir** x/leftright/**i**

Type Inference Example -- 17

source text: x:=1; z := y < x

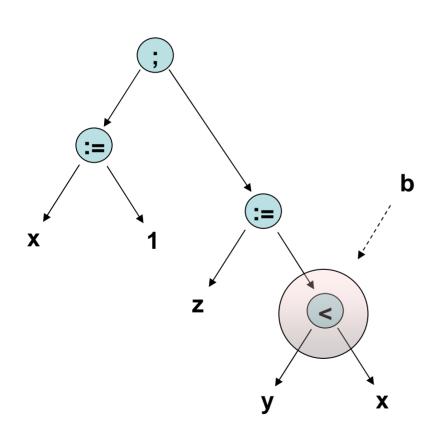
visit 1 (again):



y/right/**i** z/left/**bir** x/leftright/**i**

Type Inference Example -- 18 source text: x:=1; z := y < x

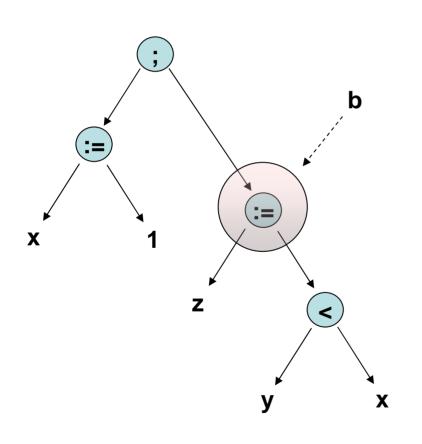
return:

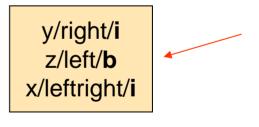


y/right/**i** z/left/**bir** x/leftright/**i**

Type Inference Example -- 19 source text: x:=1; z := y < x

return:

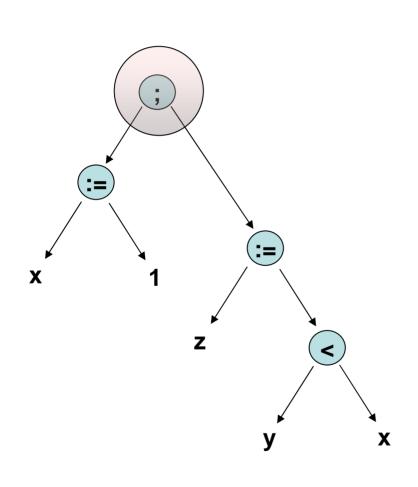




symbol table

Type Inference Example -- 20 source text: x:=1; z := y < x

return:



y/right/**i** z/left/**b** x/leftright/**i**