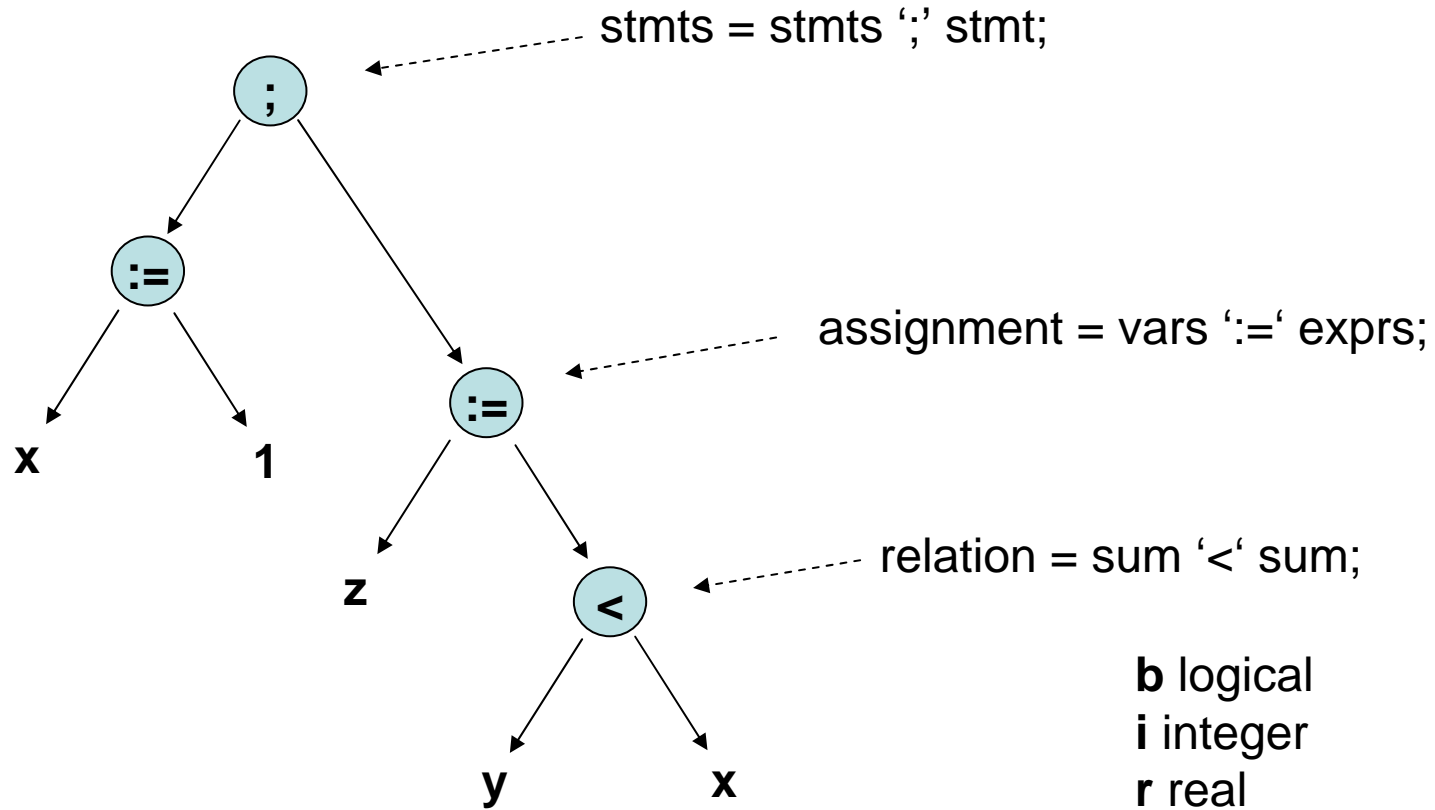


Type Inference Example -- 1

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

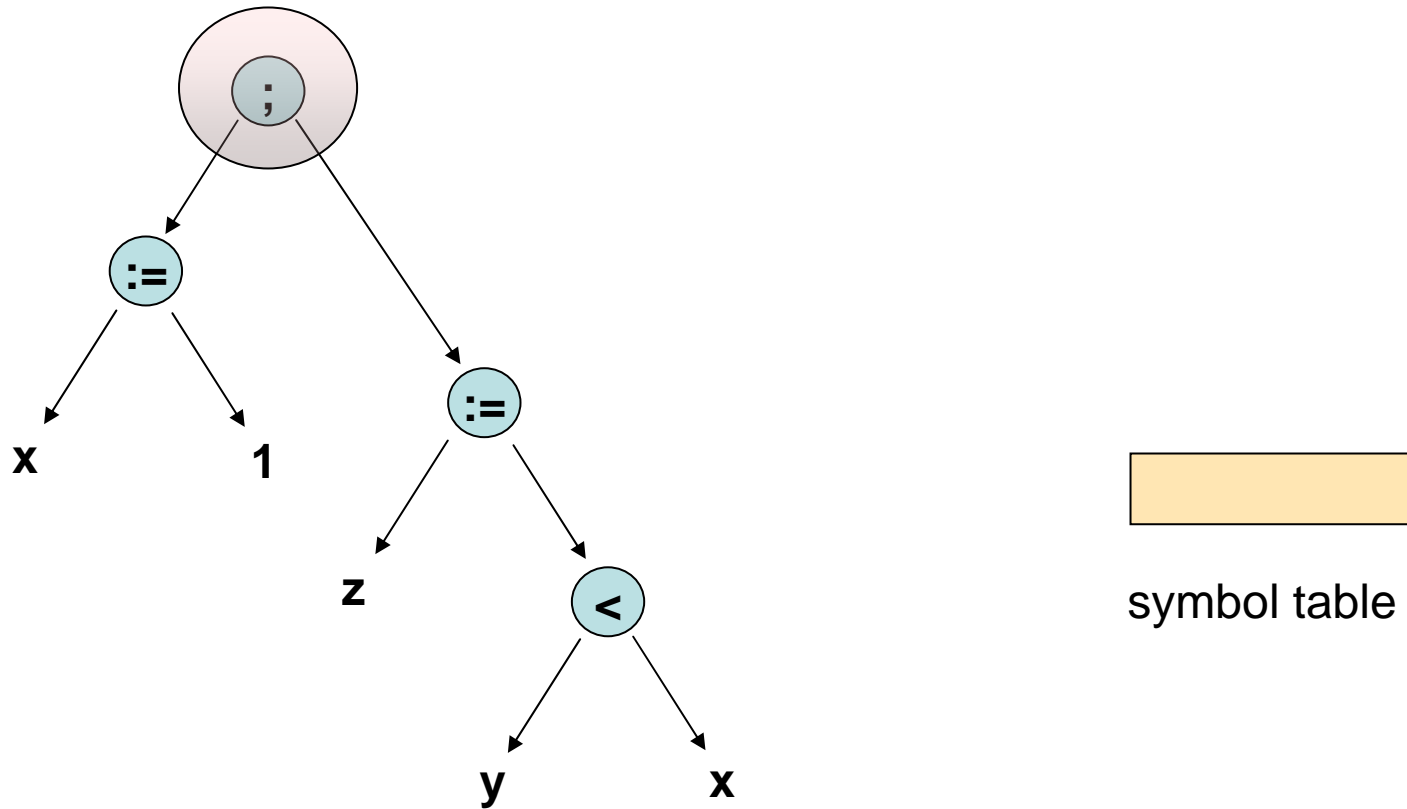
Abstract Syntax Tree:



Type Inference Example -- 2

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

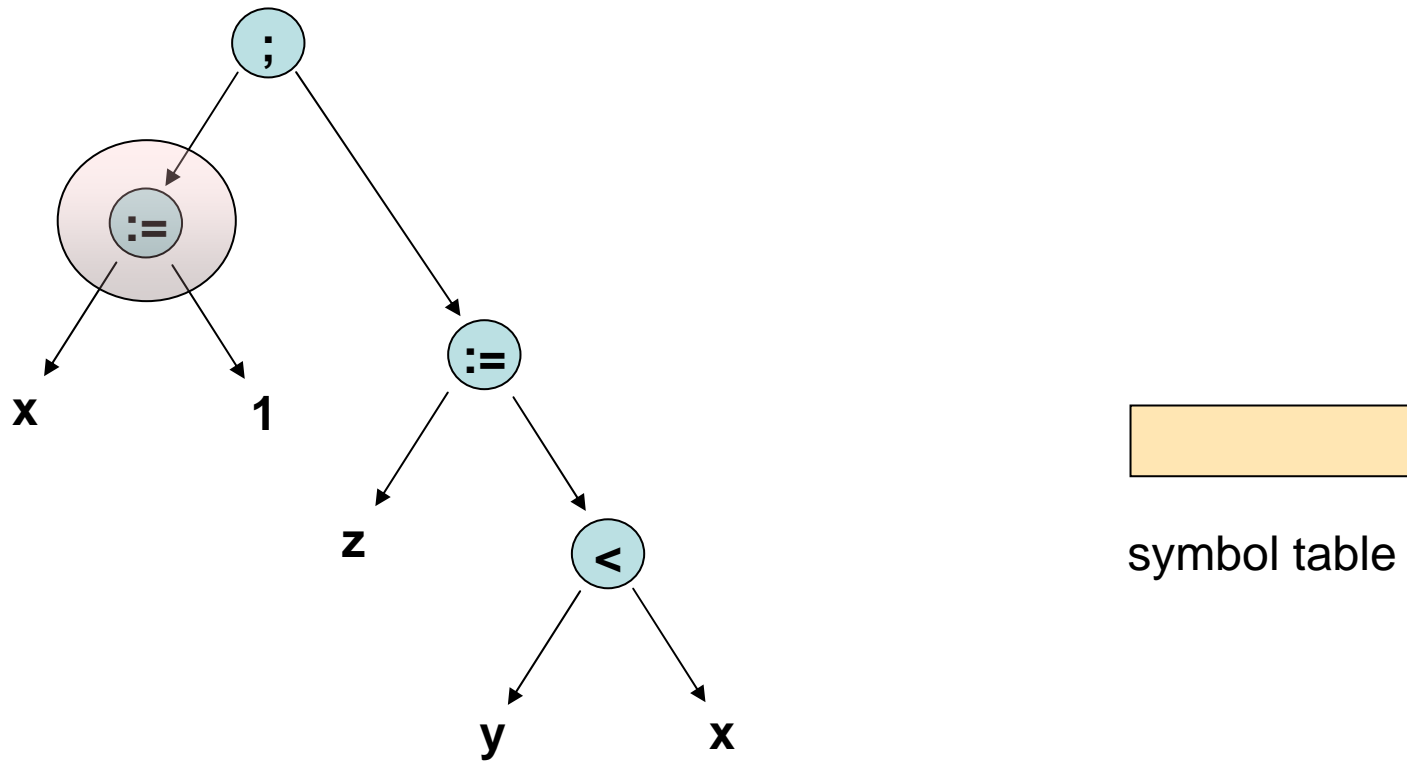
initial state:



Type Inference Example -- 3

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

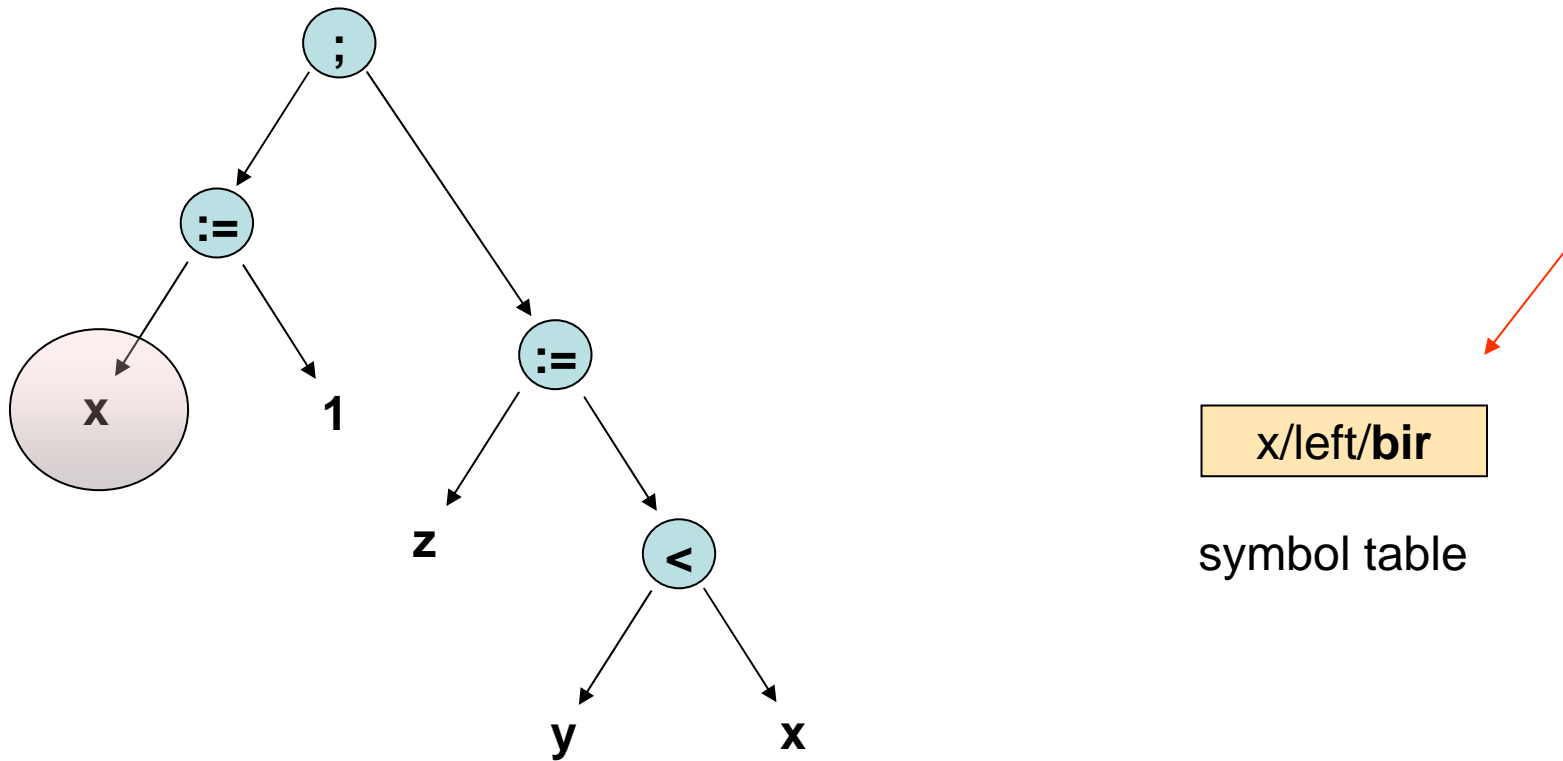
visit 1:



Type Inference Example -- 4

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

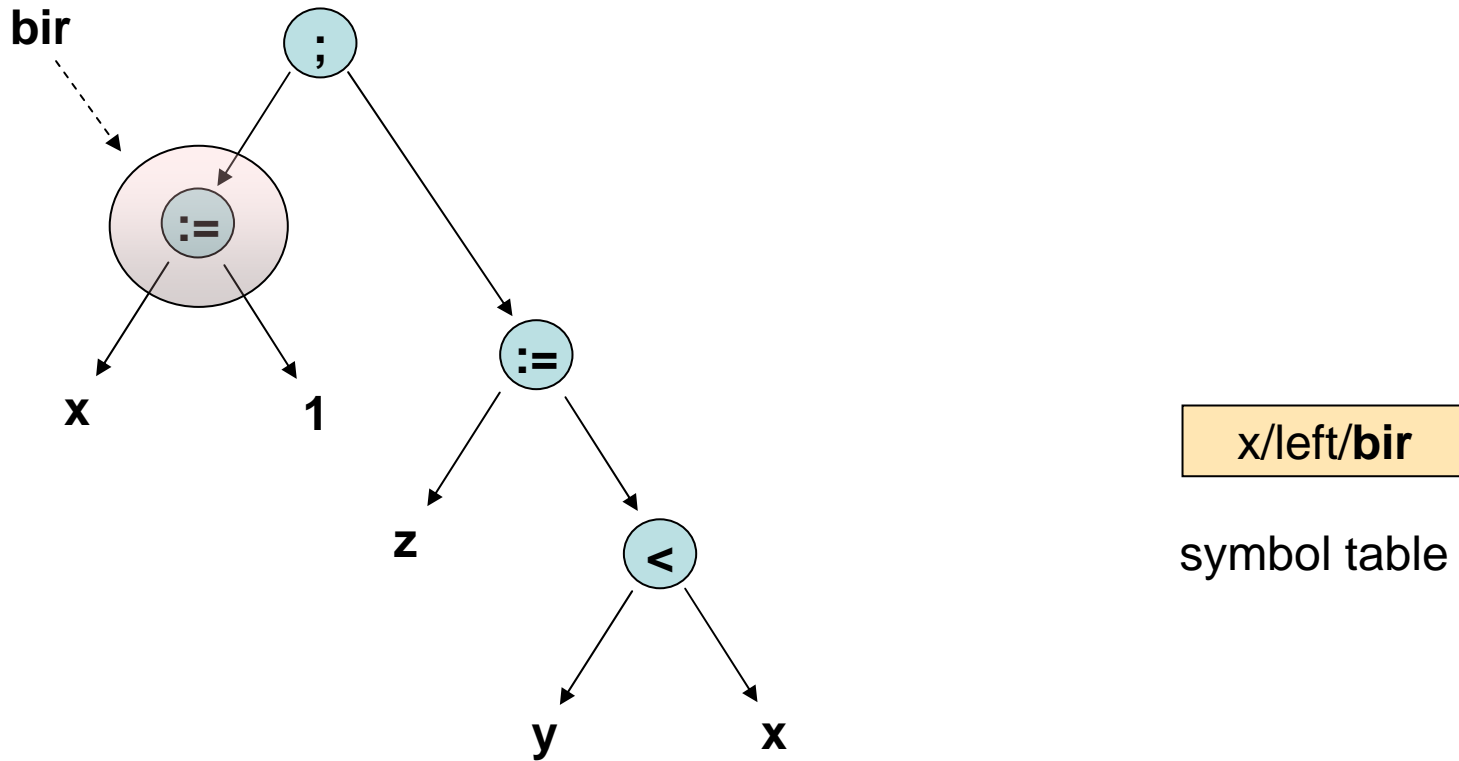
visit 1:



Type Inference Example -- 5

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

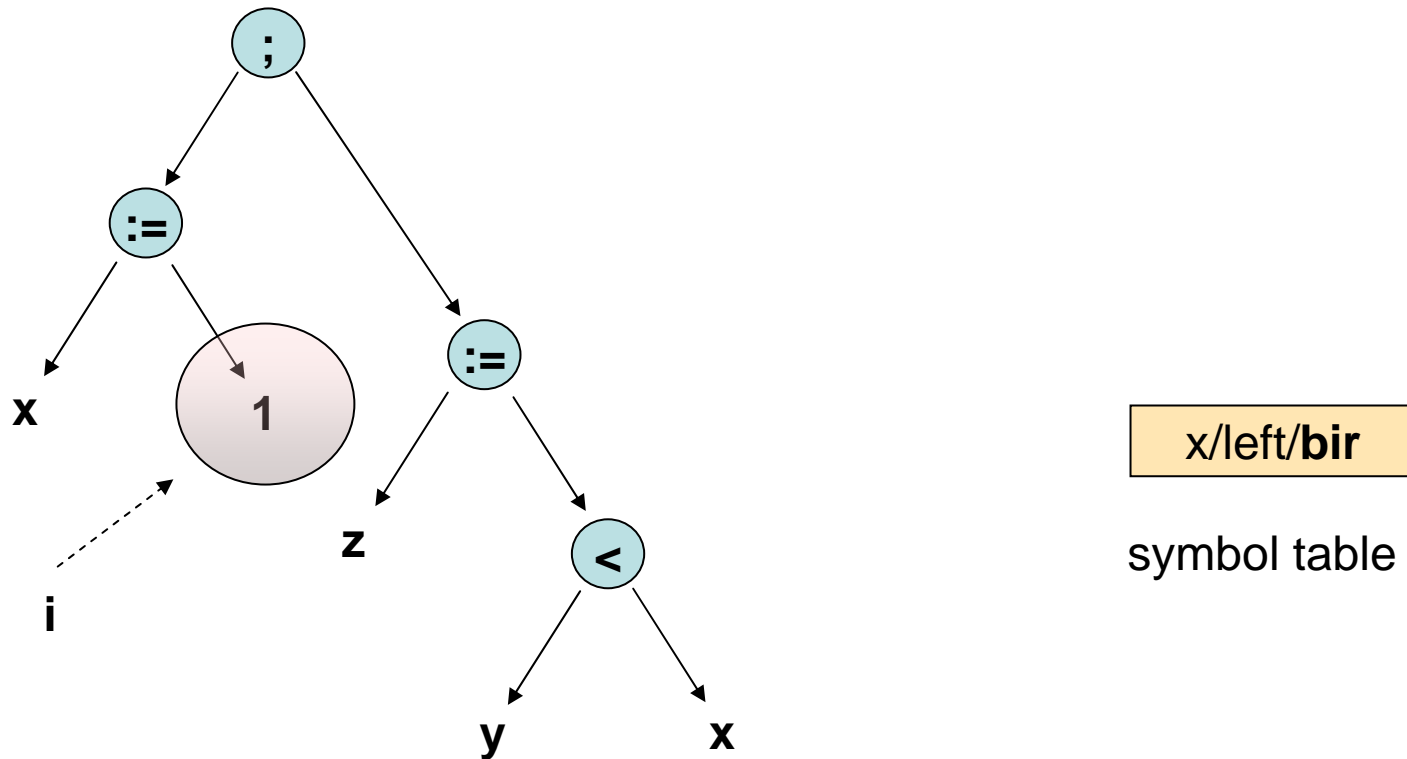
return:



Type Inference Example -- 6

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

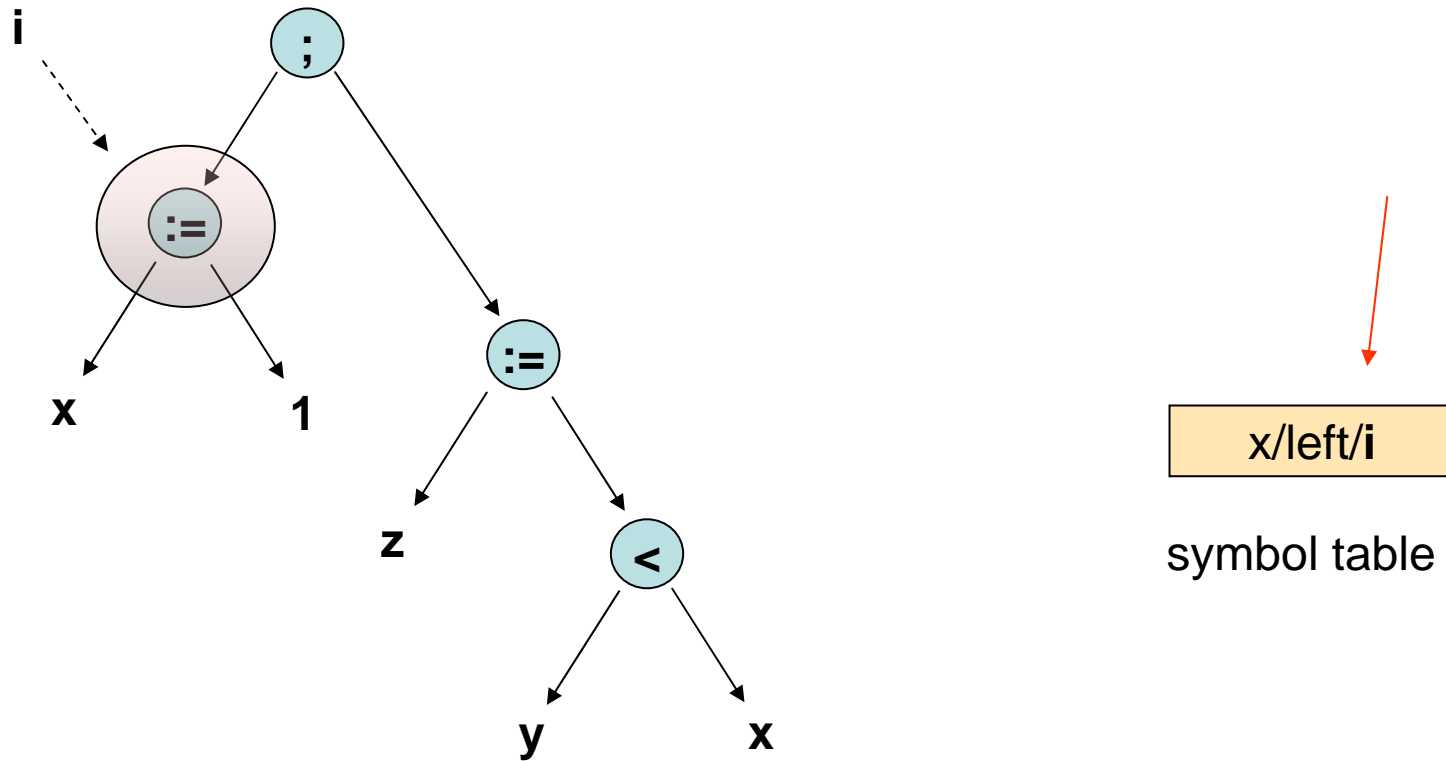
visit 2:



Type Inference Example -- 7

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

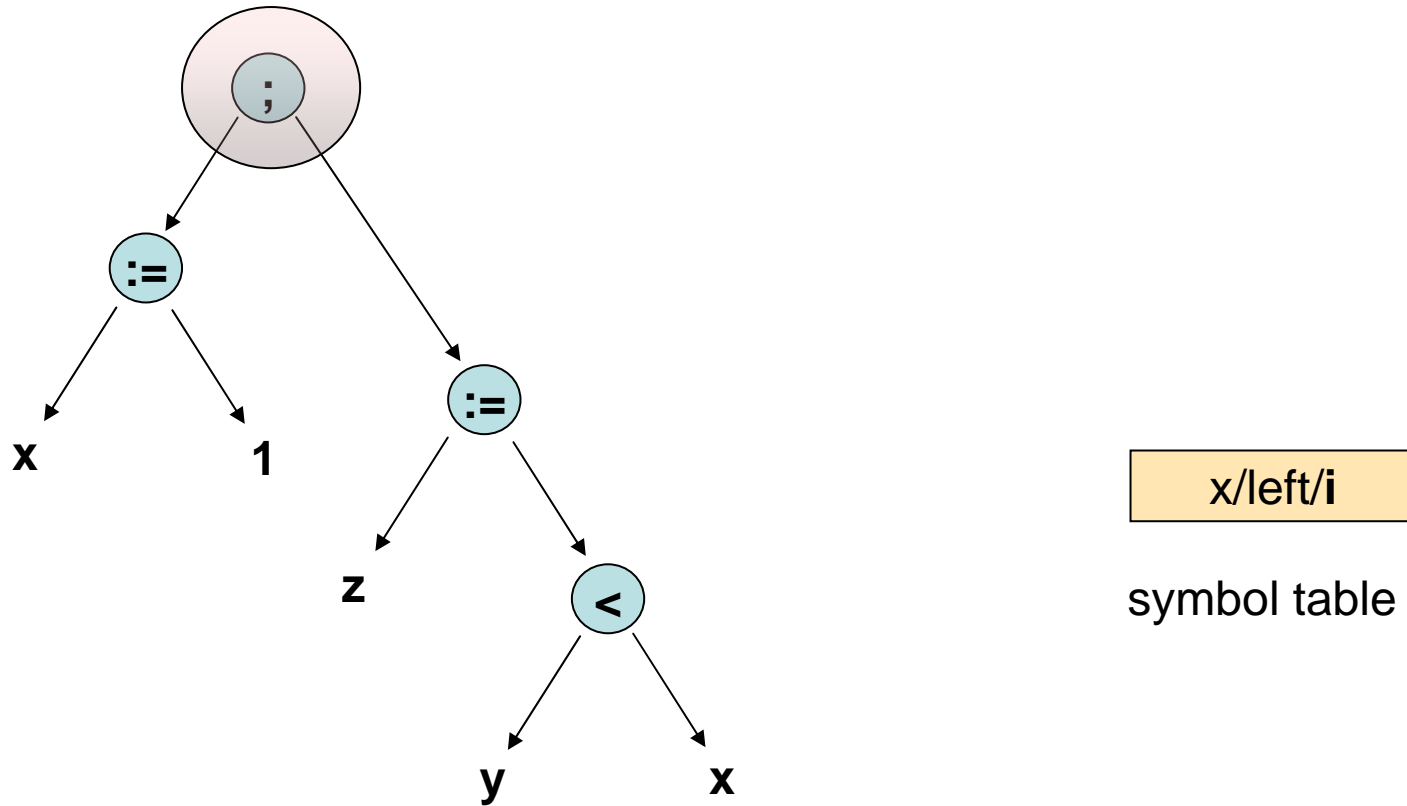
return:



Type Inference Example -- 8

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

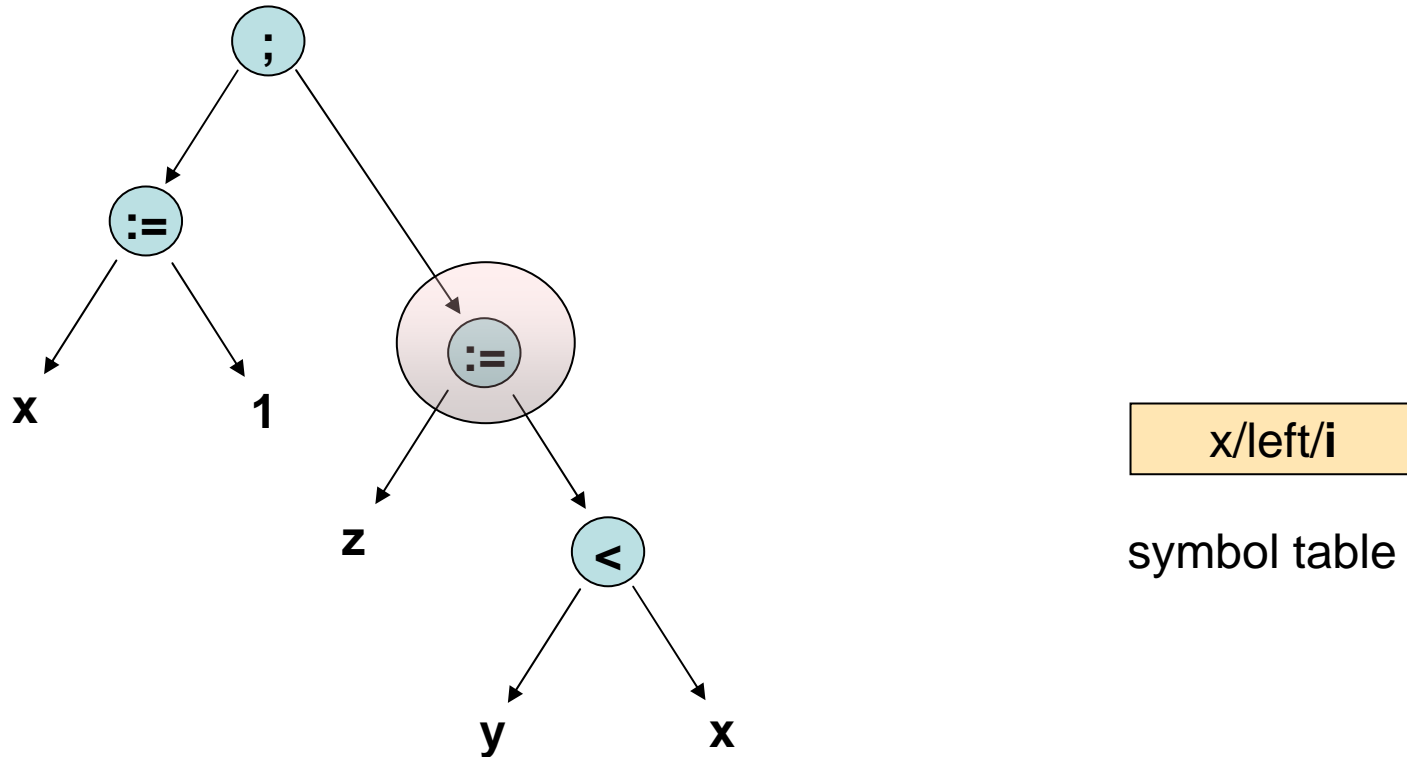
return:



Type Inference Example -- 9

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

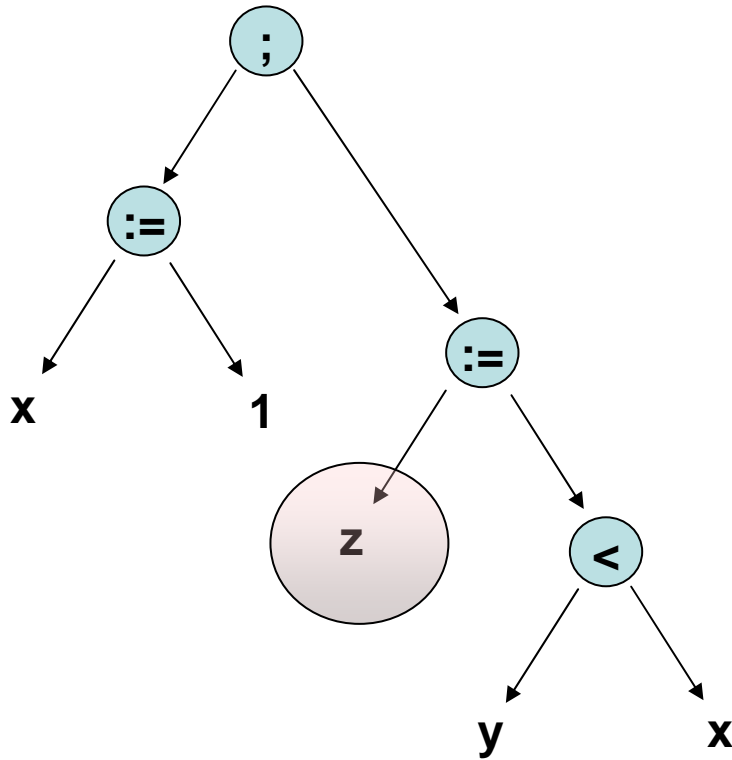
visit 2:



Type Inference Example -- 10

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

visit 1:



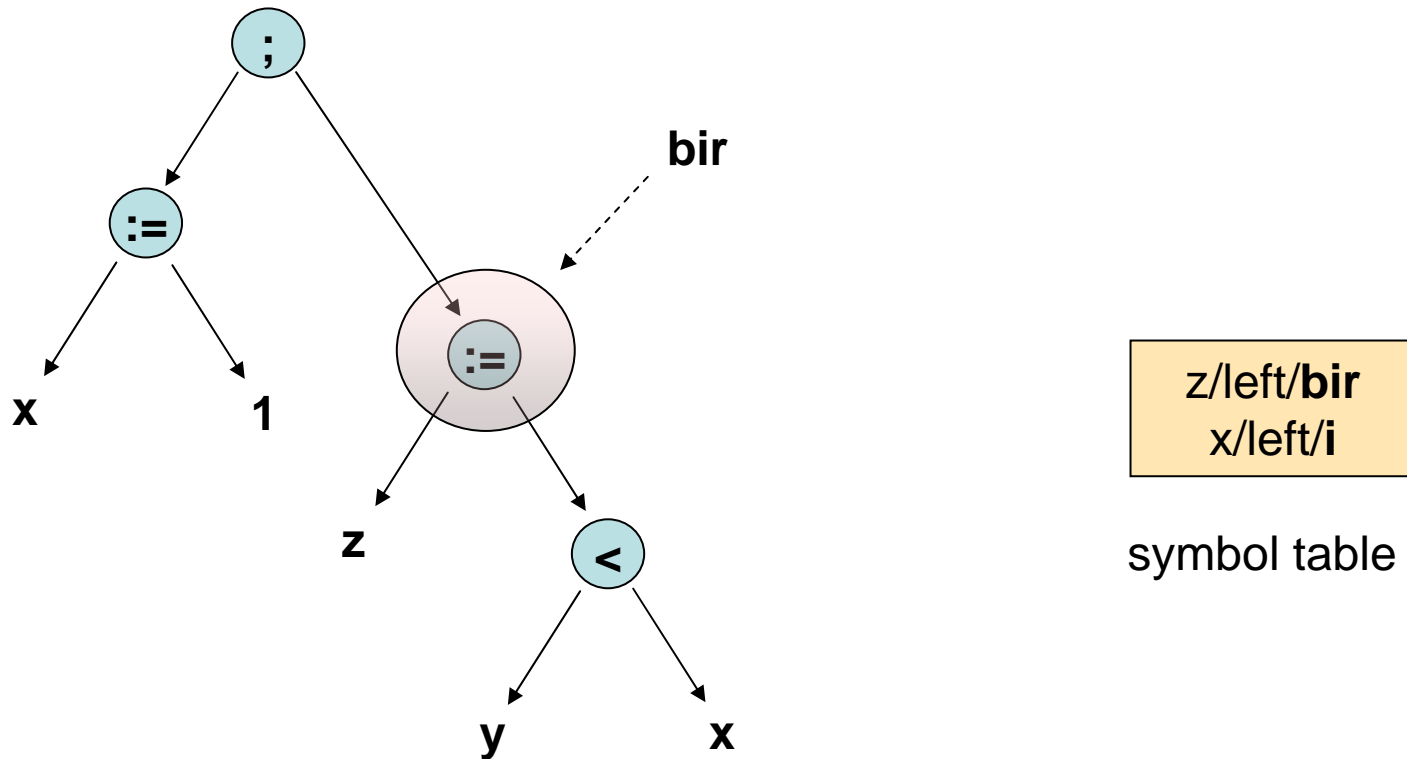
z/left/bir
x/left/i

symbol table

Type Inference Example -- 11

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

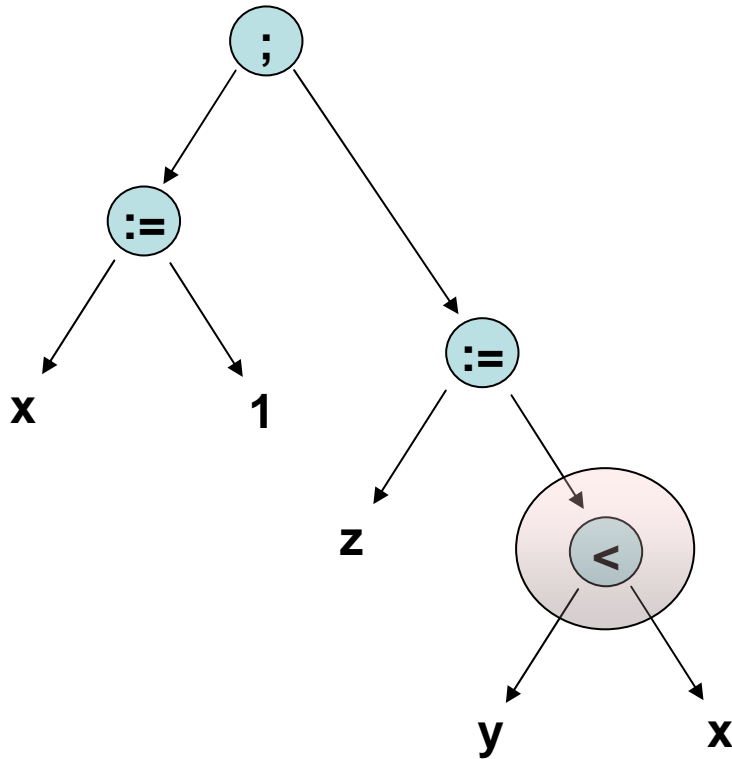
return:



Type Inference Example -- 12

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

visit 2:



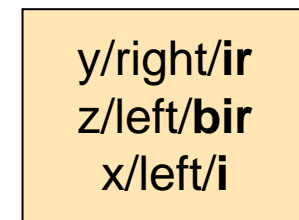
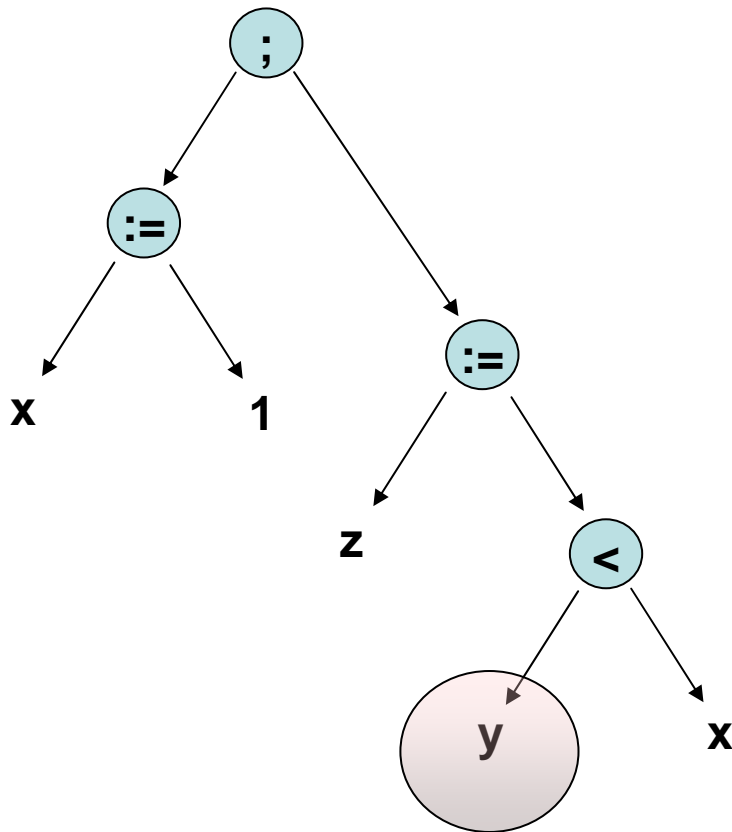
z/left/bir
x/left/i

symbol table

Type Inference Example -- 13

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

visit 1:

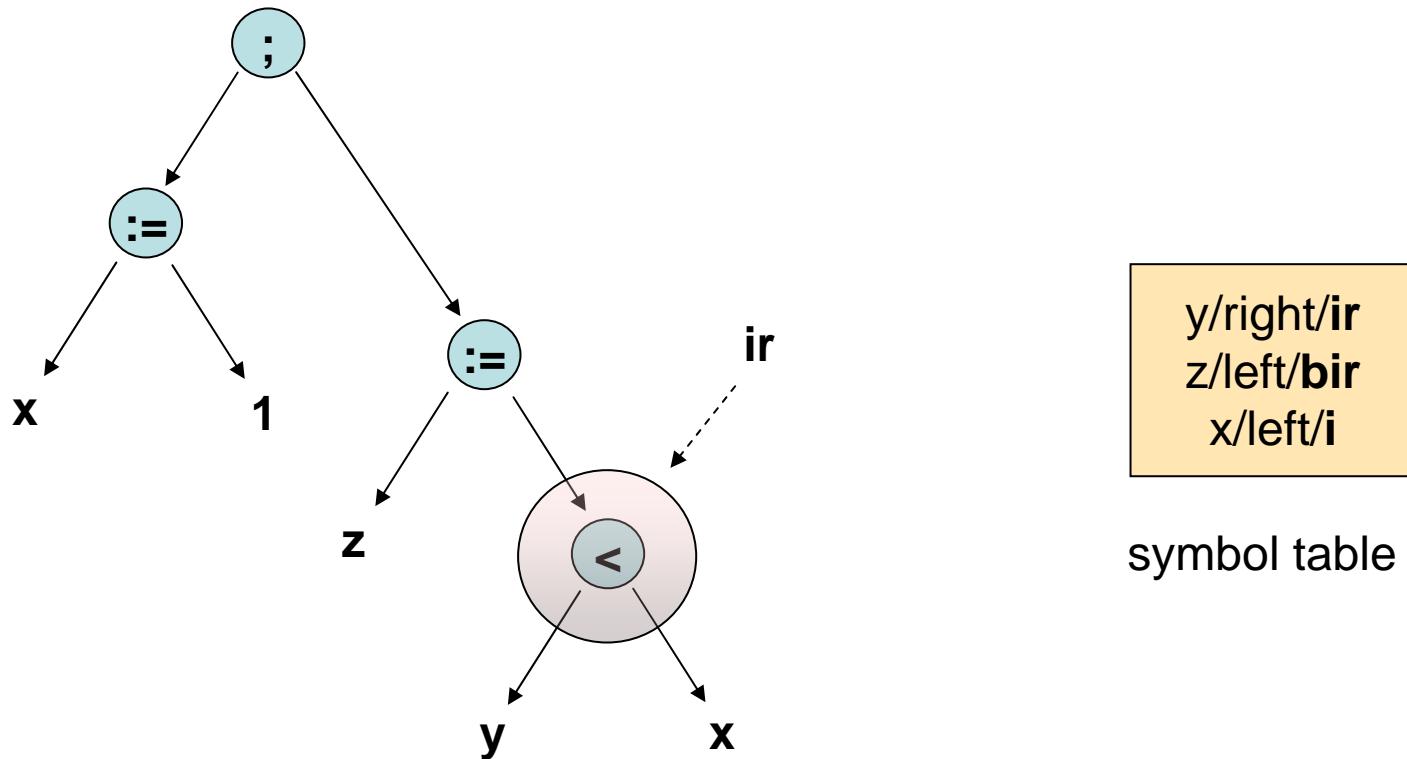


symbol table

Type Inference Example -- 14

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

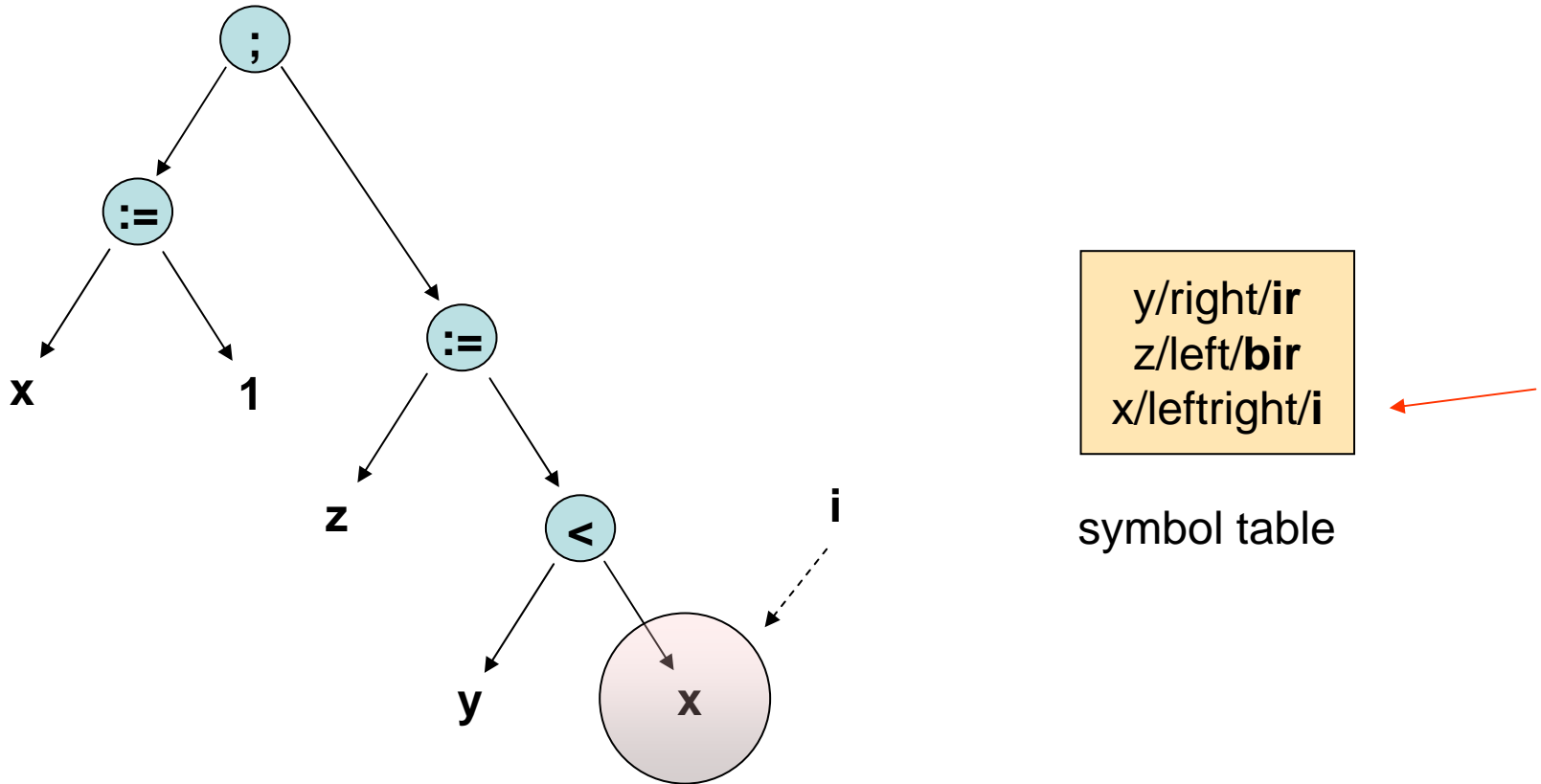
return:



Type Inference Example -- 15

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

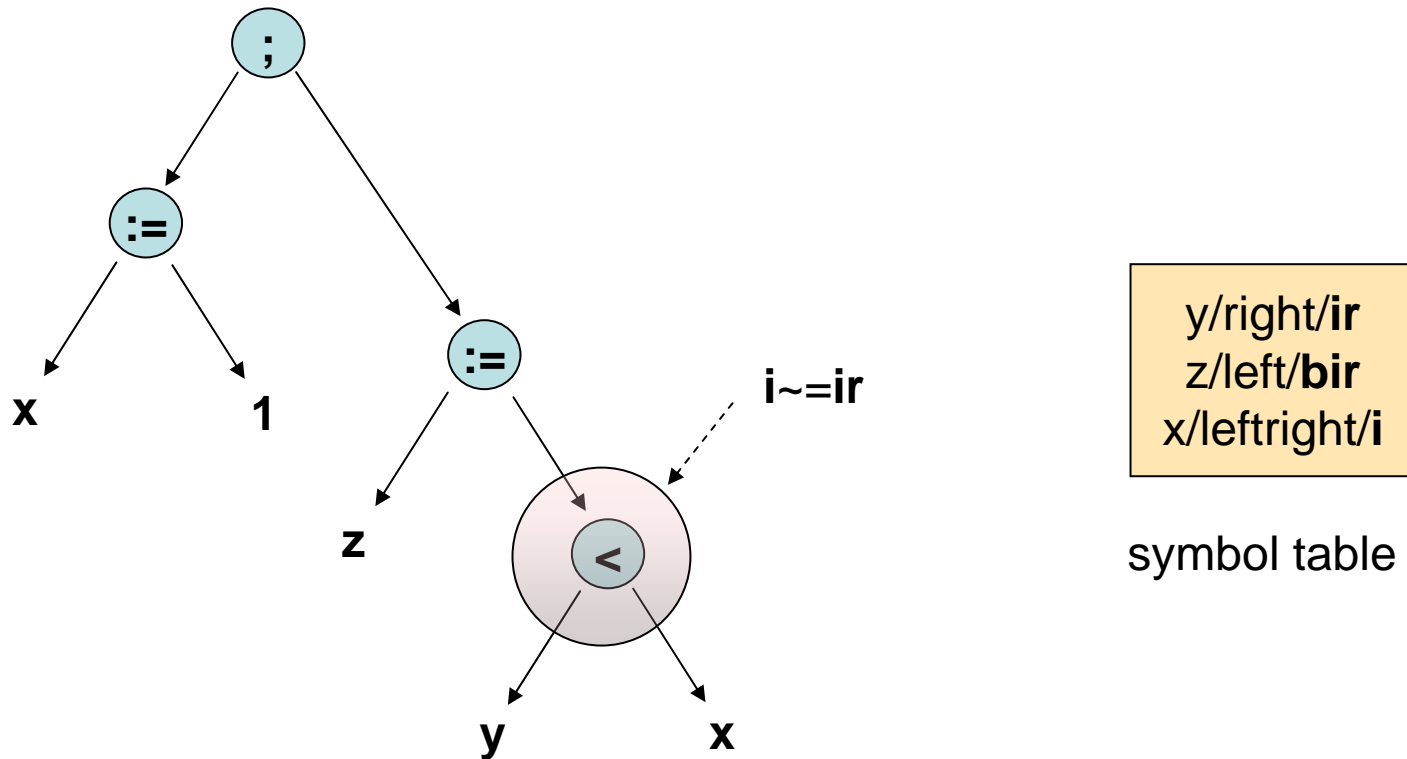
visit 2:



Type Inference Example -- 16

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

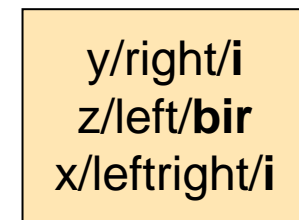
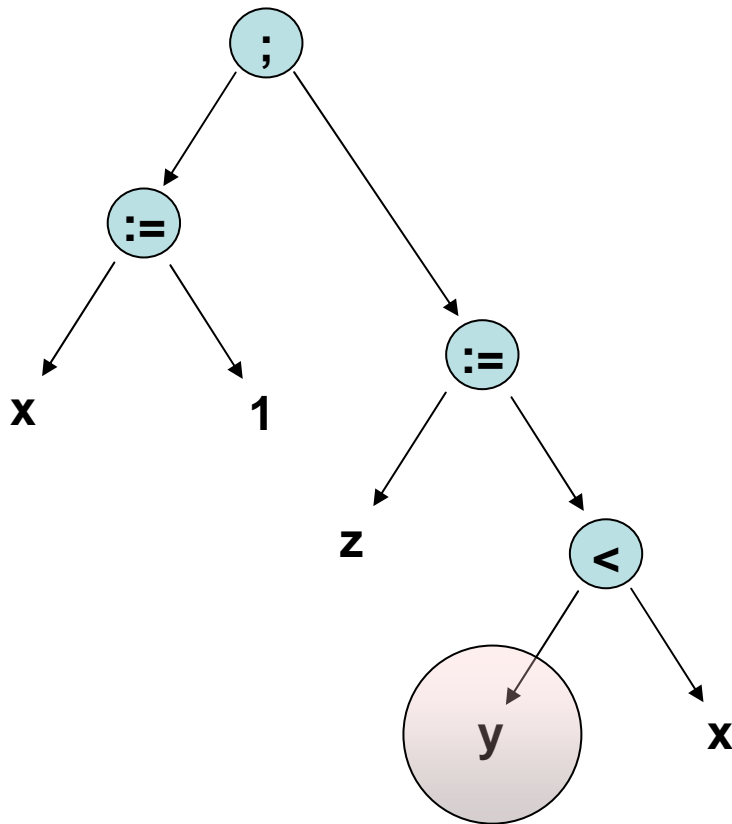
return:



Type Inference Example -- 17

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

visit 1 (again):

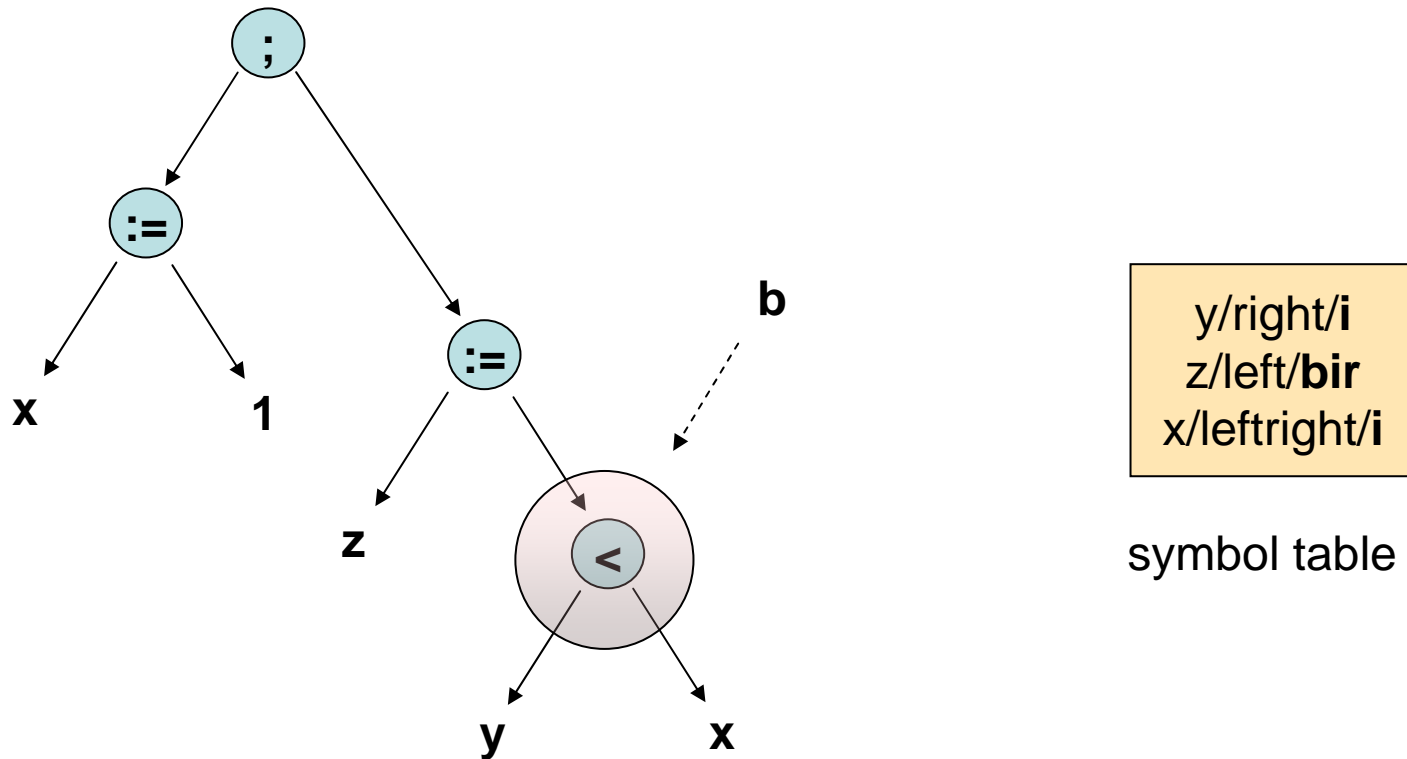


symbol table

Type Inference Example -- 18

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

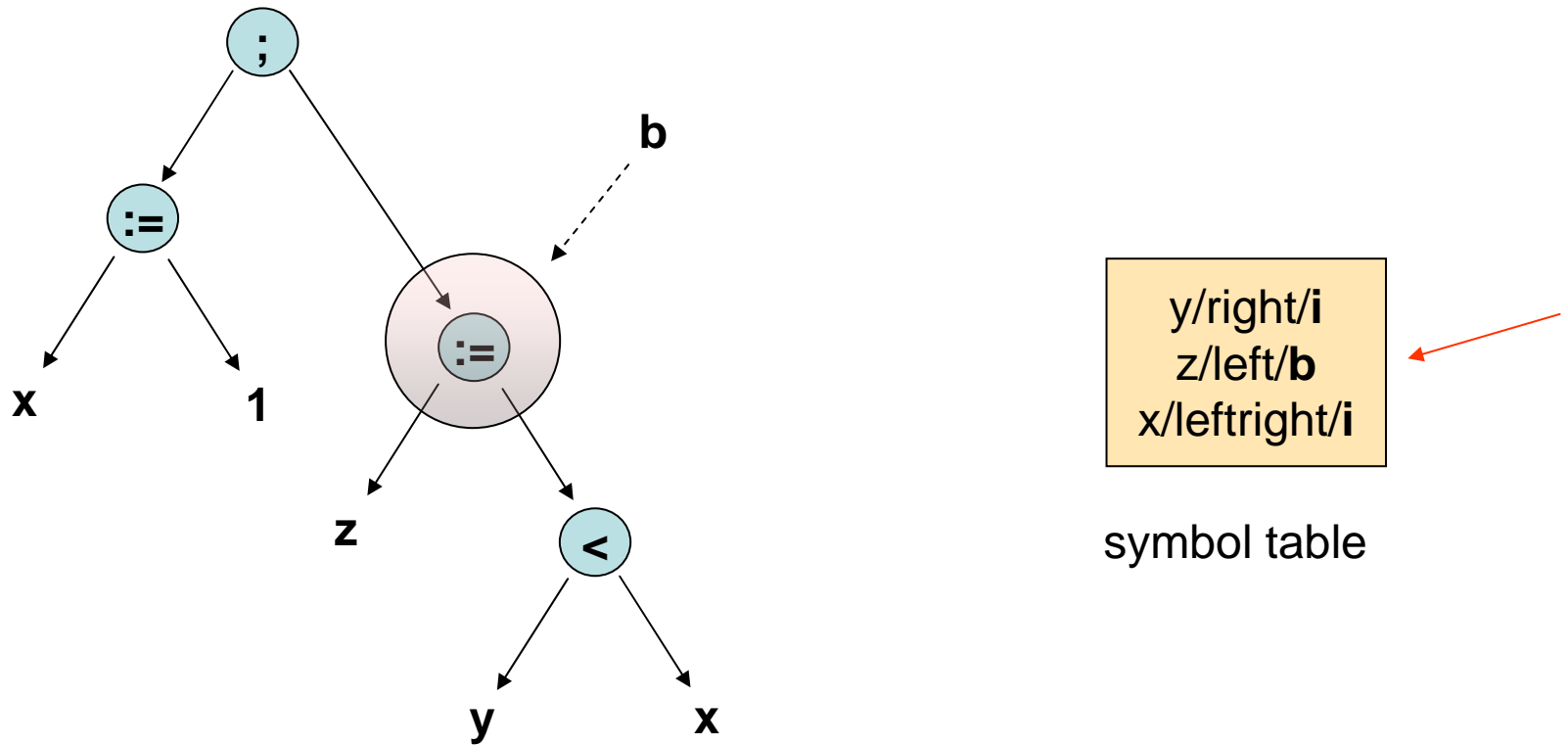
return:



Type Inference Example -- 19

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

return:



Type Inference Example -- 20

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

return:

