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Chapter 5 Readings

4)

Dynamic type bounding and implicit heap-dynamic variables are closely related as both only set the type and bound to the heap when they are assigned values. Implicit heap-dynamic uses dynamic type binding in order to bound the heap.

9)

Sub1: x is global and not visible to sub1(), a is local and visible to sub1(), y is local and visible to sub1(), z is local and visible to sub1()

Sub2: x is global and is visible to sub2(), a is local and visible to sub2(), w is local and visible to sub2(), x is global and not visible to sub2(), y is global and not visible to sub2()

Sub3: x is local to sub2() and not visible to sub3(), a is local to sub2() and is visible to sub3(), b is local and visible to sub3(), z is local and is visible to sub3(), w is local to sub2() and is not visible to sub3(), y is global and not visible to sub3()

11)

a)

a in main; b in fun1; c in fun2; d, e, and f in fun3

b)

a in main; b and c in fun1; d, e, and f in fun3

c)

a in main; b, c, and d in fun1; e and f in fun3

d)

a in main; b, c, and d in fun1; e and f in fun3

e)

a in main; b in fun1; c, d, and e in fun2; f in fun3

f)

a in main; b, c, and d in fun1; e in fun2; f in fun3