A1: Name Resolution and Inheritance

class A0:
    def f(self):
        return self.g()
    def g(self):
        return 10

class B(A0):
    def g(self):
        return 14
    def h(self):
        return 18

• Execute the following:
>>> a = A()
>>> b = B()

• What is value of a.f()?
A: 10 CORRECT
B: 14
C: 5
D: ERROR
E: I don’t know

A2: Name Resolution and Inheritance

class A0:
    def f(self):
        return self.g()
    def g(self):
        return 10

class B(A0):
    def g(self):
        return 14
    def h(self):
        return 18

• Execute the following:
>>> a = A()
>>> b = B()

• What is value of b.f()?
A: 10
B: 14 CORRECT
C: 5
D: ERROR
E: I don’t know

A3: Name Resolution and Inheritance

class A0:
    x = 3 # Class Variable
    y = 5 # Class Variable
    def f(self):
        return self.g()
    def g(self):
        return 10

class B(A0):
    y = 4    # Class Variable
    z = 42  # Class Variable
    def g(self):
        return 14
    def h(self):
        return 18

• Execute the following:
>>> a = A()
>>> b = B()

• What is value of b.x?
A: 4
B: 3 CORRECT
C: 42
D: ERROR
E: I don’t know

A4: Name Resolution and Inheritance

class A0:
    x = 3 # Class Variable
    y = 5 # Class Variable
    def f(self):
        return self.g()
    def g(self):
        return 10

class B(A0):
    y = 4    # Class Variable
    z = 42  # Class Variable
    def g(self):
        return 14
    def h(self):
        return 18

• Execute the following:
>>> a = A()
>>> b = B()

• What is value of a.z?
A: 4
B: 3
C: 42
D: ERROR
E: I don’t know

A5: isinstance and Subclasses

>>> s1 = Rectangle(0,0,10,10)
>>> isinstance(s1, Square)
A: True
B: False CORRECT
C: Error
D: I don’t know

== compares equality
is compares identity

• c1 = Circle(1, 1, 25)
• c2 = Circle(1, 1, 25)
• c3 = c2
• c1 == c2? True
• c1 is c2? False
• c2 == c3? True
• c2 is c3? True

eq vs. is

==

is