## Classes & Inheritance

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1. Suppose we have written a class called BankAccount with a
method inside it, defined as:
public double computeInterest(int rate)
If the client code has declared a BankAccount variable named
acct, which of the following would be a valid call to the above
method?
a. double result = computeInterest(acct, 42);
b. acct.computeInterest(42.0, 15);
c. int result = BankAccount.computeInterest(42);
d. double result = acct.computeInterest(42);
e. new BankAccount(42).computeInterest();
2. The following println statement (the entire line) is equivalent
to what?
Point p1 = new Point();
System.out.println(p1);
a. System.out.println(toString(p1));
b. p1.toString();
c. System.out.println(p1.toString());
d. System.out.println(p1.string());
e. System.out.println(Point.toString());
3. Which of the following is the correct syntax to indicate that
class A is a subclass of B?
a. public class B extends A {
b. public class A: super B {
c. public A(super B) {
d. public class A extends B {
e. public A implements B {
4. Consider the following classes:
public class Vehicle {...}
public class Car extends Vehicle {...}
public class SUV extends Car {...}
Which of the following are legal statements?
a. Vehicle v = new Car();
b. Vehicle v = new SUV();
c. Car c = \text{new SUV}();
d. SUV s = new SUV();
e. SUV s = new Car();
f. Car c = new Vehicle();
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