

1. Consider the following two classes:

```
public class Dog {
    public void act() {
        System.out.print("run ");
        eat();
    }
    public void eat() {
        System.out.print("eat ");
    }
}

public class UnderDog extends Dog {
    public void act() {
        super.act();
        System.out.print("sleep ");
    }
    public void eat() {
        super.eat();
        System.out.print("bark ");
    }
}
```

What is printed as a result of the following code in some other class:

```
Dog fido = new UnderDog();
fido.act();
```

2. What is printed by the following program?

```
public class ArrayTester {

    protected int[] data = { 1, 2, 3 };

    public void add(int n) {
        for (int i=0; i < data.length; i++) {
            data[i] += n;
        }
    }

    public void print() {
        for (int n : data) {
            System.out.print(n);
            System.out.print(" ");
        }
        System.out.println();
    }

    public static void main(String[] args) {
        ArrayTester tester = new ArrayTester();
        tester.print();
        tester.data[2] = 99;
        tester.add(2);
        tester.print();
        tester.data[1] = 67;
        tester.add(1);
        tester.print();
    }
}
```

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