

# プログラミング A 第6回・演習 回答

## 1 演習 1

Label.java

---

```
class Label {  
    static String common;  
    String caption;  
    Label(String c) {  
        caption = c;  
    }  
    void output() {  
        System.out.println(common + ": " + caption);  
    }  
}
```

---

## 2 演習 2

Shop.java

---

```
class Shop {  
    String name = null;  
    Shop(String n) {  
        name = n;  
    }  
    String sell() {  
        return null;  
    }  
}
```

---

Bakery.java

---

```
class Bakery extends Shop {  
    Bakery() {  
        super(" パン屋 ");  
    }  
    String sell() {  
        return " パン ";  
    }  
}
```

---

FlowerShop.java

---

```
class FlowerShop extends Shop {  
    }  
    FlowerShop() {
```

```
        super(" 花屋 ");
    }
    String sell() {
        return " 花 ";
    }
}
```

---

### 3 演習 3

Movable.java

```
interface Movable {
    void move();
}
```

---

Animal.java

```
class Animal implements Movable {
    public void move() {
        System.out.println("Animal moved.");
    }
}
```

---

Robot.java

```
class Robot implements Movable {
    public void move() {
        System.out.println("Robot moved.");
    }
}
```

---

### 4 演習 4

File.java

```
public class File {
    String name = null;
    int size = 0;
    File(String name, int size) {
        this.name = name;
        this.size = size;
    }
    int getSize() {
        return size;
    }
    void setSize(int size) {
```

```
        this.size = size;
    }
    String getName() {
        return name;
    }
    void setName(String name) {
        this.name = name;
    }
}
```

---

Directory.java

---

```
public class Directory extends File {
    File[] files = new File[10];
    int index = 0;
    Directory(String name) {
        super(name, 1);
    }
    void add(File file) {
        if(index < 10) {
            files[index++] = file;
        }
    }
    int getSize() {
        int result = size;
        for(int i = 0; i < index; i++) {
            result += files[i].getSize();
        }
        return result;
    }
}
```

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