

```
1 package revision2;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         Integer[] a1 = {0,1,2,3,4,5,6,7,8,9};
7         Float[] a2 = {0F,1F,2F,3F,4F,5F,6F,7F,8F,9.8F};
8
9         GenericClass<Integer> gen1 = new GenericClass<Integer>(a1);
10        GenericClass<Float> gen2 = new GenericClass<Float>(a2);
11    }
12 }
13
```

```
1 package revision2;
2
3 public class Doctor extends Person implements ITreatable{
4     private Disease[] d;
5 }
6
```

```
1 package revision2;
2
3 public abstract class Person {
4     private String name;
5     private int cellNo;
6
7     public String getName() {
8         return name;
9     }
10
11     public void setName(String name) {
12         this.name = name;
13     }
14
15     public int getCellNo() {
16         return cellNo;
17     }
18
19     public void setCellNo(int cellNo) {
20         this.cellNo = cellNo;
21     }
22
23     public Person() {
24     }
25
26     public Person(String name, int cellNo) {
27         this.name = name;
28         this.cellNo = cellNo;
29     }
30
31     public Person(Person org){
32         this.setName(org.getName());
33         this.setCellNo(org.getCellNo());
34     }
35
36     @Override
37     public String toString() {
38         return "Person{" +
39             "name='" + name + '\'' +
40             ", cellNo=" + cellNo +
41             '}';
42     }
43 }
44
```

```
1 package revision2;
2
3 public class Disease {
4     String name;
5     int type;
6     String symptoms;
7     public static final int VIRUS = 1;
8     public static final int MICROBE = 2;
9
10    public Disease() {
11    }
12
13    @Override
14    public String toString() {
15        return "Disease{" +
16            "name='" + name + '\'' +
17            ", type=" + type +
18            ", symptoms='" + symptoms + '\'' +
19            '}';
20    }
21 }
22
```

```
1 package revision2;
2
3 import java.util.Arrays;
4
5 public final class Patient extends Person implements ITreatable{
6     private Disease[] d;
7
8     public Disease[] getD() {
9         return d;
10    }
11
12    public void setD(Disease[] d) {
13        this.d = d;
14    }
15
16    public Patient() {
17    }
18
19    public Patient(Disease[] d) {
20        this.d = d;
21    }
22
23    public Patient(Patient org){
24        super(org);
25        this.setD(org.getD().clone());
26    }
27
28    @Override
29    public String toString() {
30        return super.toString() + "Patient{" +
31            "d=" + Arrays.toString(d) +
32            '}';
33    }
34 }
35
```

```
1 package revision2;
2
3 import java.util.*;
4
5 public class Hospital {
6     protected Patient[] patients= new Patient[100];
7     public static final int MAXNum = 100;
8
9     public Hospital() {
10    }
11
12    @Override
13    public String toString() {
14        return "Hospital{" +
15            "patients=" + Arrays.toString(patients) +
16            '}';
17    }
18 }
19
```

```
1 package revision2;
2
3 public interface ITreatable {
4     // not specified
5 }
6
```

```
1 package revision2;
2
3 public class GenericClass<T> {
4     public T[] array;
5
6     public GenericClass(T[] array) {
7         this.array = array;
8     }
9 }
10
```