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

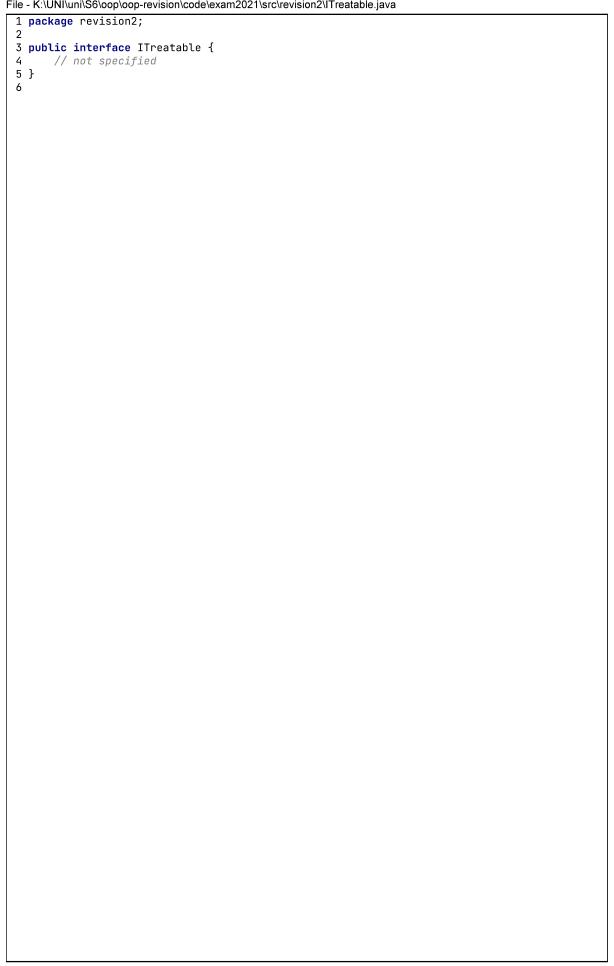
```
1 package revision2;
3 public class Doctor extends Person implements ITreatable{
4    private Disease[] d;
5 }
6
```

```
File - K:\UNI\uni\S6\oop\oop-revision\code\exam2021\src\revision2\Person.java
 1 package revision2;
 3 public abstract class Person {
       private String name;
 4
 5
       private int cellNo;
 6
 7
       public String getName() {
 8
           return name;
 9
10
       public void setName(String name) {
11
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
39
                   ", cellNo=" + cellNo +
40
                   '}';
41
42
       }
43 }
44
```

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

```
1 package revision2;
3 import java.util.Arrays;
5 public final class Patient extends Person implements ITreatable{
       private Disease[] d;
7
8
       public Disease[] getD() {
9
          return d;
10
11
       public void setD(Disease[] d) {
12
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;
3 import java.util.*;
5 public class Hospital {
       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() {
          return "Hospital{" +
14
15
                   "patients=" + Arrays.toString(patients) +
                   '}';
16
17
       }
18 }
19
```



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