1 **import** java.util.Arrays;

2

3 **public** **class** ReturningGenericArrays

4 {

5 **public** **static** **void** main(String[] args)

6 {

7 Integer[] iArray= {1,2,3,4};

8 Integer[] iArrayReturned;

9 Student[] sArray = {**new** Student(17, "Robert"),

10 **new** Student(20, "Carol"),

11 **new** Student(16, "Maggie")};

12 Student[] sArrayReturned;

13

14 iArrayReturned = invertArray(iArray);

15 sArrayReturned = invertArray(sArray);

16

17 **for**(**int** i = 0; i < iArray.length; i++) **//all the Integer Objects**

18 {

19 System.out.println(iArray[i] + "\t" + iArrayReturned[i]);

20 }

21 System.out.println();

22

23 **for**(**int** i = 0; i < sArray.length; i++) **//all the Student Objects**

24 {

25 System.out.println(sArray[i] + "\t" + sArrayReturned[i]);

26 }

27 }

28

29 **public** **static** <T1> T1[] invertArray(T1[] anArray)

30 {

31 T1[] copy;

32

33 copy = Arrays.copyOf(anArray, anArray.length);

34 **for**(**int** i = 0; i < copy.length; i++)

35 {

36 copy[i] = anArray[copy.length – 1 - i];

37 }

38 **return** copy;

39 }

40 }

**Figure 13.10 The application ReturningGenericArray.**