

Question

Write a Java program to sort an array of positive integers of an given array, in the sorted array the value of the first element should be maximum, second value should be minimum value, third should be second maximum, fourth second be second minimum and so on.

Code

```
import java.util.Scanner;
import java.util.Arrays;
import java.util.Collections;

public class AlternateOrder {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);

        System.out.print("Enter number of elements : ");
        int items = handler.nextInt();
        int data[] = new int[items];
        System.out.print("Enter " + items + " values : ");

        for (int i = 0; i < items; i++) {
            data[i] = handler.nextInt();
        }

        Collections.sort(Arrays.asList(data), Collections.reverseOrder());

        int[] finalArr = new int[data.length];
        for (int i = 0; i < data.length; i += 2) {
            finalArr[i] = data[i];
            finalArr[i + 1] = data[data.length - i - 1];
        }

        for (int i = 0; i < finalArr.length; i++) {
            System.out.println(finalArr[i]);
        }
    }
}
```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/jav...
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac AlternateOrder.java
→ da2.part2 git:(19BCE2669) X java AlternateOrder
Enter number of elements : 10
Enter 10 values : 1 2 3 4 5 6 7 8 9 10
1
10
3
8
5
6
7
4
9
2
→ da2.part2 git:(19BCE2669) X

```

Question

Write a Java program to separate even and odd numbers of an given array of integers. Put all even numbers first, and then odd numbers.

Code

```

import java.util.Scanner;

public class OddEvenSeparator {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.print("Enter number of elements : ");
        int n = handler.nextInt();
        int a[] = new int[n];
        int b[] = new int[n];
        int odd = n - 1;
        int even = 0;

        System.out.print("Enter elements of array : ");
        for (int i = 0; i < n; i++) {
            a[i] = handler.nextInt();
        }

        for (int i = 0; i < n; i++) {
            if (a[i] % 2 == 0) {
                b[even] = a[i];
                even++;
            } else {
                b[odd] = a[i];
                odd--;
            }
        }
    }
}

```

```

    }

    for (int i = 0; i < n; i++) {
        System.out.print(b[i] + " ");
    }
}
}

```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/jav...
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac OddEvenSeparator.java
→ da2.part2 git:(19BCE2669) X java OddEvenSeparator
Enter number of elements : 10
Enter elements of array : 1 2 3 4 5 6 7 8 9 10
2 4 6 8 10 9 7 5 3 1 %
→ da2.part2 git:(19BCE2669) X

```

Question

Java program generates random numbers within the provided range.

Code

```

import java.util.Scanner;
import java.util.Random;

public class RandomNumbersInGivenRange {
    public static void main(String args[]) {
        Random random = new Random();
        Scanner handler = new Scanner(System.in);
        System.out.print("Enter max range : ");
        int maxRange = handler.nextInt();
        for (int i = 1; i <= 10; i++) {
            System.out.println("> " + random.nextInt(maxRange));
        }
    }
}

```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/jav...
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac RandomNumbersInGivenRange.java
→ da2.part2 git:(19BCE2669) X java RandomNumbersInGivenRange
Enter max range : 100
> 40
> 73
> 0
> 31
> 46
> 89
> 5
> 0
> 42
> 21
→ da2.part2 git:(19BCE2669) X

```

Question

Write a Java Program to generate the random number between the ranges.

Code

```

import java.util.Scanner;

public class RandomNumberBetweenGivenRange {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.print("Enter starting range : ");

        int lowerRange = handler.nextInt();
        System.out.print("Enter final range : ");
        int upperRange = handler.nextInt();
        int randomNumber = lowerRange + (int) (Math.random() * ((upperRange
- lowerRange) + 1));
        System.out.println("Random number between given range : " +
randomNumber);
    }
}

```

Output

```

public class RandomNumberBetweenGivenRange {
}

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/jav...
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac RandomNumberBetweenGivenRange.java
→ da2.part2 git:(19BCE2669) X java RandomNumberBetweenGivenRange
Enter starting range : 75 out.print("Enter starting range : ");
Enter final range : 100
Random number between given range : 82
→ da2.part2 git:(19BCE2669) X = handler.nextInt();
System.out.print("Enter final range : ");

```

Question

Java program to reverse a number.

Code

```

import java.util.Scanner;

public class ReverseNumber {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        int temp;
        int number;
        int number2 = 0;
        System.out.print("Enter a number : ");
        number = handler.nextInt();

        while (number != 0) {
            temp = number % 10;
            number2 = number2 * 10 + temp;
            number = number / 10;
        }
        System.out.println("Reversed Number is " + number2);
    }
}

```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/jav...
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac ReverseNumber.java
→ da2.part2 git:(19BCE2669) X java ReverseNumber
Enter a number : 209 temp;
Reversed Number is 902
→ da2.part2 git:(19BCE2669) X

```

Question

Write a Java program to convert a binary number to decimal number and to decimal number to binary number

Code

```
import java.util.Scanner;

public class BaseConversion {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.print("Enter binary number : ");
        long number1 = handler.nextLong();
        int decimal = convertBinaryToDecimal(number1);
        System.out.printf("%d in binary = %d in decimal", number1,
decimal);

        System.out.print("\nEnter Decimal number : ");
        int number2 = handler.nextInt();
        long binary = convertDecimalToBinary(number2);
        System.out.printf("%d in decimal = %d in binary", number2, binary);
        System.out.println("");
    }

    public static int convertBinaryToDecimal(long num) {
        int decimalNumber = 0, i = 0;
        long remainder;
        while (num != 0) {
            remainder = num % 10;
            num = num / 10;
            decimalNumber += remainder * Math.pow(2, i);
            ++i;
        }
        return decimalNumber;
    }

    public static long convertDecimalToBinary(int n) {
        long binaryNumber = 0;
        int remainder, i = 1;

        while (n != 0) {
            remainder = n % 2;
            n = n / 2;
            binaryNumber += remainder * i;
            i = i * 10;
        }
        return binaryNumber;
    }
}
```

Output

```
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/jav...
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac BaseConversion.java
→ da2.part2 git:(19BCE2669) X java BaseConversion
Enter binary number : 101101 print("Enter binary number : ");
101101 in binary = 45 in decimal
Enter Decimal number : 45
45 in decimal = 101101 in binary convertBinaryToDecimal(number1);
→ da2.part2 git:(19BCE2669) X System.out.printf("%d in binary = %d in decimal", number1, d
```

Question

Write a Java program to create and display unique three-digit number using 1, 2, 3, 4. Also count how many three-digit numbers are there.

Code

```
public class UniqueThreeDigits {
    public static void main(String[] args) {
        int temp = 0;
        for (int i = 1; i <= 4; i++) {
            for (int j = 1; j <= 4; j++) {
                for (int k = 1; k <= 4; k++) {
                    if (k != i && k != j && i != j) {
                        temp++;
                        System.out.println(i + " " + j + " " + k);
                    }
                }
            }
        }
        System.out.println("Total number of the three digit number is " +
temp);
    }
}
```

Output

```

123
124
132
134
142
143
213
214
231
234
241
243
312
314
321
324
341
342
412
413
421
423
431
432
→ da2.part2 git:(19BCE2669) X javac UniqueThreeDigits.java
→ da2.part2 git:(19BCE2669) X java UniqueThreeDigits
Total number of the three digit number is 24
→ da2.part2 git:(19BCE2669) X

```

Question

Write a Java program that accepts an integer (n) and computes the value of $n + nn + nnn$.

Code

```

import java.util.Scanner;

public class FormulaQuestion {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.print("Enter n to calculate n + nn + nnn : ");
        int n = handler.nextInt();
        System.out.println("> " + (n + n * n + n * n * n));
    }
}

```

Output


```

Run | Debug
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/jav...
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac FormulaQuestion.java
→ da2.part2 git:(19BCE2669) X java FormulaQuestion
Enter n to calculate n + nn + nnn : 3
> 39
→ da2.part2 git:(19BCE2669) X In("> " + (n + n * n + n * n * n));

```

Question

Write a program to display system time

Code

```

import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.TimeZone;

public class DisplaySystemTime {
    public static void main(String args[]) {
        System.out.println("Displaying Current Time");
        SimpleDateFormat format = new SimpleDateFormat("yyyy/MM/dd
HH:mm:ss");

        format.setCalendar(Calendar.getInstance(TimeZone.getTimeZone("IST")));

        System.out.println("Now: " +
        format.format(System.currentTimeMillis()));
    }
}

```

Output

```

4
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/jav...
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac DisplaySystemTime.java
→ da2.part2 git:(19BCE2669) X java DisplaySystemTime
Displaying Current Time
Now: 2020/09/09 21:26:47
→ da2.part2 git:(19BCE2669) X format = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss");
format.setCalendar(Calendar.getInstance(TimeZone.getTimeZone("IST")));

```

Question

Write a Java program to calculate the sum of two integers and return true if the sum is equal to a third integer.

Code

```
import java.util.Scanner;

public class SumOfTwoEqualToThird {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.println("Enter three Numbers :");
        System.out.print("Enter first Number : ");
        int first = handler.nextInt();
        System.out.print("Enter second Number : ");
        int second = handler.nextInt();
        System.out.print("Enter third Number : ");
        int third = handler.nextInt();

        if (first + second == third || second + third == first || third + first == second) {
            System.out.println("Yes");
        } else {
            System.out.println("No");
        }
    }
}
```

Output

```
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/jav...
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac SumOfTwoEqualToThird.java
→ da2.part2 git:(19BCE2669) X java SumOfTwoEqualToThird
Enter three Numbers :
Enter first Number : 10
Enter second Number : 20
Enter third Number : 30
Yes
→ da2.part2 git:(19BCE2669) X java SumOfTwoEqualToThird
Enter three Numbers :
Enter first Number : 30
Enter second Number : 20
Enter third Number : 10
Yes
→ da2.part2 git:(19BCE2669) X
```

Question

Write a Java program that accepts three integers from the user and return true if the second number is greater than first number and third number is greater than second number. If "abc" is true second number does not need to be greater than first number.

Code

```
import java.util.Scanner;

public class NumberOrder {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.println("Enter three Numbers :");
        System.out.print("Enter first Number : ");
        int first = handler.nextInt();
        System.out.print("Enter second Number : ");
        int second = handler.nextInt();
        System.out.print("Enter third Number : ");
        int third = handler.nextInt();

        System.out.println("The result is " + (first < second && second <
third));
    }
}
```

Output

```
public class NumberOrder {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.println("Enter three Numbers :");
        System.out.print("Enter first Number : ");
        int first = handler.nextInt();
        System.out.print("Enter second Number : ");
        int second = handler.nextInt();
        System.out.print("Enter third Number : ");
        int third = handler.nextInt();

        System.out.println("The result is " + (first < second && second <
third));
    }
}
```

```
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/jav...
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac NumberOrder.java
→ da2.part2 git:(19BCE2669) X java NumberOrder 10
Enter three Numbers :
Enter first Number : 10
Enter second Number : 20
Enter third Number : 30
The result is true
→ da2.part2 git:(19BCE2669) X java NumberOrder 30 10 20
Enter three Numbers :
Enter first Number : 30
Enter second Number : 10
Enter third Number : 20
The result is false
→ da2.part2 git:(19BCE2669) X s
```

Question

Write a Java program to test if the first and the last element of an array of integers are same. The length of the array must be greater than or equal to 2. Test Data: array = 50, -20, 0, 30, 40, 60, 10 Sample

Output: False

Code

```
import java.util.Scanner;

public class FirstAndLastOfTwoArr {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.print("Enter number of elements in array 1 : ");
        int items1 = handler.nextInt();
        int data1[] = new int[items1];
        System.out.println("Enter " + items1 + " values : ");

        for (int i = 0; i < items1; i++) {
            data1[i] = handler.nextInt();
        }

        System.out.print("Enter number of elements in array 2 : ");
        int items = handler.nextInt();
        int data[] = new int[items];
        System.out.println("Enter " + items + " values : ");

        for (int i = 0; i < items; i++) {
            data[i] = handler.nextInt();
        }

        System.out.println("Starting elements of both array are same: " +
            (data[0] == data1[0]));
        System.out.println("Last elements of both array are same: " +
            (data[items - 1] == data1[items1 - 1]));
        System.out.println("First element of first array is equal to last
            element of second array : "
                + (data1[0] == data[items - 1]));
        System.out.println("Last element of first array is equal to first
            element of second array : "
                + (data1[items1 - 1] == data[0]));

    }
}
```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) ✗ javac FirstAndLastOfTwoArr.java
→ da2.part2 git:(19BCE2669) ✗ java FirstAndLastOfTwoArr
Enter number of elements in array 1 : 5
Enter 5 values :
1 2 3 4 5
Enter number of elements in array 2 : 10
Enter 10 values :
1 2 3 4 5 6 7 8 9 5
Starting elements of both array are same: true
Last elements of both array are same: true
First element of first array is equal to last element of second array : false
Last element of first array is equal to first element of second array : false
→ da2.part2 git:(19BCE2669) ✗

```

Question

Write a Java program to create a new array of length 2 from two arrays of integers with three elements and the new array will contain the first and last elements from the two arrays Test Data:

```

array1 = 50, -20, 0
array2 = 5, -50, 10

```

Sample Output:

```

Array1: [50, -20, 0]
Array2: [5, -50, 10]
New Array: [50, 10]

```

Code

```

import java.util.Scanner;

public class NewArrContainingFirstAndLast {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.print("Enter number of elements in array 1 : ");
        int items1 = handler.nextInt();
        int data1[] = new int[items1];
        System.out.println("Enter " + items1 + " values : ");

        for (int i = 0; i < items1; i++) {
            data1[i] = handler.nextInt();
        }

        System.out.print("Enter number of elements in array 2 : ");
        int items = handler.nextInt();
        int data[] = new int[items];
    }
}

```

```

        System.out.println("Enter " + items + " values : ");

        for (int i = 0; i < items; i++) {
            data[i] = handler.nextInt();
        }

        int finalArr[] = { data[0], data[items - 1] };
        System.out.println("First element of new arr : " + finalArr[0]);
        System.out.println("Second element of new arr : " + finalArr[1]);

    }
}

```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac NewArrContainingFirstAndLast.java
→ da2.part2 git:(19BCE2669) X java NewArrContainingFirstAndLast
Enter number of elements in array 1 : 5
Enter 5 values : 1 2 3 4 5
Enter number of elements in array 2 : 6
Enter 6 values : 1 3 5 7 9 11
First element of new arr : 1
Second element of new arr : 11
→ da2.part2 git:(19BCE2669) X

```

Question

Write a Java program to test that a given array of integers of length 2 contains a 4 or a 7.

Code

```

import java.util.Scanner;

public class ContainsTwoOrSeven {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        int data[] = new int[2];
        System.out.print("Enter first number : ");
        int first = handler.nextInt();
        System.out.print("Enter second number : ");
        int second = handler.nextInt();

        data[0] = first;
        data[1] = second;

        if (data[0] == 4 || data[0] == 7 || data[1] == 4 || data[1] == 7) {
            System.out.println("True");
        } else {

```

```

        System.out.println("False");
    }
}
}

```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac ContainsTwoOrSeven.java
→ da2.part2 git:(19BCE2669) X java ContainsTwoOrSeven
Enter first number : 4    System.out.print("Enter first number : ");
Enter second number : 10  int first = handler.nextInt();
True
→ da2.part2 git:(19BCE2669) X java ContainsTwoOrSeven
Enter first number : 10   int second = handler.nextInt();
Enter second number : 7
True
→ da2.part2 git:(19BCE2669) X java ContainsTwoOrSeven
Enter first number : 4    data[0] = first;
Enter second number : 7   data[1] = second;
True
→ da2.part2 git:(19BCE2669) X java ContainsTwoOrSeven
Enter first number : 0 1  (data[0] == 4 || data[0] == 7 || data[1] == 4 || data[1] == 7) {
Enter second number : False
→ da2.part2 git:(19BCE2669) X System.out.println("True");
}
}
}

```

Question

Write a Java program to rotate an array (length 3) of integers in left direction

Code

```

import java.util.Scanner;

public class ArrayRotation {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        int[] a;
        int temp;
        a = new int[3];

        System.out.println("Enter three of array : ");
        for (int i = 0; i < 3; i++) {
            a[i] = handler.nextInt();
        }

        System.out.print("Original Array : [");
        for (int i = 0; i < 3; i++) {
            if (i != 2) {
                System.out.print(a[i] + ",");
            } else {
                System.out.println(a[i] + "]");
            }
        }
    }
}

```

```

    }

    temp = a[0];
    for (int i = 0; i < 2; i++) {
        a[i] = a[i + 1];
    }
    a[2] = temp;
    System.out.print("Rotated Array : [");
    for (int i = 0; i < 3; i++) {
        if (i != 2) {
            System.out.print(a[i] + ",");
        } else {
            System.out.println(a[i] + "]");
        }
    }
}
}

```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac ArrayRotation.java
→ da2.part2 git:(19BCE2669) X java ArrayRotation
Enter three of array : 1 2 3
Original Array : [1,2,3]
Rotated Array : [2,3,1]
→ da2.part2 git:(19BCE2669) X
System.out.println("Enter three of array : ");
for (int i = 0; i < 3; i++) {

```

Question

Write a Java program to get the larger value between first and last element of an array (length 3) of integers .

Code

```

import java.util.Scanner;

public class LargestValueOfArray {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        int items = 3;
        int data[] = new int[items];
        System.out.println("Enter " + items + " values : ");

        for (int i = 0; i < items; i++) {
            data[i] = handler.nextInt();
        }
    }
}

```



```

        if (data[0] > data[2]) {
            System.out.println(data[0] + " is greater than " + data[2]);
        } else {
            System.out.println(data[2] + " is greater than " + data[0]);
        }
    }
}

```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac LargestValueOfArray.java
→ da2.part2 git:(19BCE2669) X java LargestValueOfArray
Enter 3 values :      int data[] = new int[items];
10 20 15
15 is greater than 10      System.out.println("Enter " + items + " values : ");
→ da2.part2 git:(19BCE2669) X █
    for (int i = 0; i < items; i++) {

```

Question

Write a Java program to swap the first and last elements of an array (length must be at least 1) and create a new array.

Code

```

import java.util.Scanner;

public class SwapFirstAndLast {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.print("Enter number of elements : ");
        int items = handler.nextInt();
        int data[] = new int[items];
        System.out.println("Enter " + items + " values : ");

        for (int i = 0; i < items; i++) {
            data[i] = handler.nextInt();
        }

        int newArray[] = new int[items];
        for (int i = 0; i < items; i += 1) {
            newArray[i] = data[i];
        }

        newArray[0] = data[items - 1];
        newArray[items - 1] = data[0];

        System.out.print("[");
    }
}

```

```

        for (int i : newArray) {
            System.out.print(i + " ");
        }
        System.out.println("]");
    }
}

```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac SwapFirstAndLast.java
→ da2.part2 git:(19BCE2669) X java SwapFirstAndLast
Enter number of elements : 10
Enter 10 values :
1 2 3 4 5 6 7 8 9 10
[10 2 3 4 5 6 7 8 9 1 ]
→ da2.part2 git:(19BCE2669) X

```

Question

Write a Java program to find the largest element between first, last, and middle values from an array of integers (even length).

Code

```

import java.util.Scanner;

public class FirstLastAndMiddle {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.print("Enter number of elements : ");
        int items = handler.nextInt();

        /** ensure only even length */
        while (items % 2 == 0) {
            System.out.println("Enter an odd length.");
            items = handler.nextInt();
        }

        int data[] = new int[items];
        System.out.println("Enter " + items + " values : ");

        for (int i = 0; i < items; i++) {
            data[i] = handler.nextInt();
        }

        int middle = data[items / 2];
        if (data[0] > middle) {
            if (data[0] > data[items - 1]) {
                System.out.println("> " + data[0] + " is largest.");
            }
        }
    }
}

```

```

        } else {
            System.out.println("> " + data[items - 1] + " is
largest.");
        }
    } else {
        if (middle > data[items - 1]) {
            System.out.println("> " + middle + " is largest.");
        } else {
            System.out.println("> " + data[items - 1] + " is
largest.");
        }
    }
}
}
}

```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
yash@hephaestus: ~/Desktop/files/works/foam-n... X bash command.txt
yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac FirstLastAndMiddle.java
→ da2.part2 git:(19BCE2669) X java FirstLastAndMiddle
Enter number of elements : 5
Enter 5 values :
14 25 36 74 96
> 96 is largest.
→ da2.part2 git:(19BCE2669) X

```

Question

Write a Java program to multiply corresponding elements of two arrays of integers.

Code

```

import java.util.Scanner;

public class MultiplyCorrespondingArray {
    public static void main(String args[]) {
        Scanner handler = new Scanner(System.in);
        System.out.print("Enter number of elements : ");
        int items = handler.nextInt();
        int data[] = new int[items];
        System.out.println("Enter " + items + " values : ");

        for (int i = 0; i < items; i++) {
            data[i] = handler.nextInt();
        }

        int data2[] = new int[items];
    }
}

```

```

        System.out.println("Enter values of second array : ");
        System.out.println("Enter " + items + " values : ");

        for (int i = 0; i < items; i++) {
            data2[i] = handler.nextInt();
        }

        for (int i = 0; i < data.length; i += 1) {
            System.out.println("> " + data[i] + " * " + data2[i] + " = " +
data[i] * data2[i]);
        }
    }
}

```

Output

```

yash@hephaestus: ~/Desktop/files/works/foam-notes/college/assignments/java/da2.part2
→ da2.part2 git:(19BCE2669) X javac MultiplyCorrespondingArray.java
→ da2.part2 git:(19BCE2669) X java MultiplyCorrespondingArray
Enter number of elements : 5
Enter 5 values : 1 3 5 7 9
Enter values of second array :
Enter 5 values : 3 5 7 9 11
> 1 * 3 = 3
> 3 * 5 = 15
> 5 * 7 = 35
> 7 * 9 = 63
> 9 * 11 = 99
→ da2.part2 git:(19BCE2669) X

```