Examples

WEEK 9

What is the output???

```
public class Test {
      public static void main(String[] args) {
         int list[] = {1, 2, 3, 4, 5, 6};
        for (int i = 1; i < list.length; i++)
           list[i] = list[i - 1];
        for (int i = 0; i < list.length; i++)
           System.out.print(list[i] + " ");
      }
}
```

Output:
1 1 1 1 1 1

Can this code reverse the content of an array???

```
public class Test {
    public static void main(String[] args) {

       int[] list = {1, 2, 3, 5, 4};
       for (int i = 0, j = list.length - 1; i < list.length; i++, j--) {
              // Swap list[i] with list[j]
              int temp = list[i];
              list[i] = list[j];
              list[j] = temp;
       }
       for (int i=0;i<list.length;i++){
              System.out.println("list["+i+"] is"+list[i]);
       }

    }
}
```

The iteration should continue until its `list.length/2`

What is the output???

```
public class Test {
	public static void main(String[] args) {
		int number = 0;
		int[] numbers = new int[1];
		m(number, numbers);
		System.out.println("number is " + number + " and numbers[0] is " + numbers[0]);
	}
	public static void m(int x, int[] y) {
		x = 3;
		y[0] = 3;
	}
}
```

Output:
number is 0 and numbers[0] is 3

What is the output???

```
public class Test {
	public static void main(String[] args) {
		int[] list1 = {2, 4, 7, 10};
		java.util.Arrays.fill(list1, 7);
		System.out.println(java.util.Arrays.toString(list1));

		int[] list2 = {2, 4, 7, 10};
		System.out.println(java.util.Arrays.toString(list2));
		System.out.print(java.util.Arrays.equals(list1, list2));
	}
}
```

Output:

[7, 7, 7, 7]
[2, 4, 7, 10]
false

What is the output???

```
public class VarArgsDemo {
  public static void main(String[] args) {
    printMax(1, 2, 2, 1, 4);
    printMax(new double[]{1, 2, 3});
    printMax(new int[]{1, 2, 3});
  }

  public static void printMax(double... numbers) {
    if (numbers.length == 0) {
      System.out.println("No argument passed");
      return;
    }

    double result = numbers[0];

    for (int i = 1; i < numbers.length; i++)
      if (numbers[i] > result)
        result = numbers[i];

    System.out.println("The max value is " + result);
  }
}
```

Output:

The max value is 4.0

The max value is 3.0

Error: int cannot be converted into double

Command-Line Arguments

```
public class Test {
	public static void main(String[] args) {
		System.out.println("Number of strings is " + args.length);
		for (int i = 0; i < args.length; i++)
			System.out.println(args[i]);
	}
}
```

java Test I have a dream

Output:
Number of strings is 4
I
have
a
dream

java Test "1 2 3"

Output:
Number of strings is 1
1 2 3

java Test

Output:
Number of strings is 0

What is the output???

```
public class Test {
	public static void main(String[] args) {
		int[][] array = {{1, 2}, {3, 4}, {5, 6}};
		for (int i = array.length - 1; i >= 0; i--) {
			for (int j = array[i].length - 1; j >= 0; j--)
				System.out.print(array[i][j] + " ");
			System.out.println();
		}
	}
}
```

Output:

6 5

4 3

2 1

What is the output???

```
public class Test {
	public static void main(String[] args) {
		int[][] array = {{1, 2}, {3, 4}, {5, 6}};
		int sum = 0;
		for (int i = 0; i < array.length; i++)
			sum += array[i][0];
		System.out.println(sum);
	}
}
```

Output:
9

Multidimensional Arrays – Output???

```
public class Test {
	public static void main(String[] args) {
		int[][][] array = {{{1, 2}, {3, 4}}, {{5, 6},{7, 8}}};
		System.out.println(array[0][0][0]);
		System.out.println(array[1][1][1]);
	}
}
```

Output:
1
8