

QuestionOne

```
publicclassNigeriaFlag{
    publicstaticvoidmain(String[]args){
        for(inti=0;i<4;i++){
            for(intj=0;j<12;j++){
                if(j<4){
                    System.out.print("G");
                }elseif(j<8){
                    System.out.print("W");
                }else{
                    System.out.print("G");
                }
            }
            System.out.println("\n");
        }
    }
}
```

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    publicstaticvoidmain(String[]args){
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            for(intj=0;j<12;j++){
                if(j<4){
                    System.out.print("G");
                }elseif(j<8){
                    System.out.print("W");
                }else{
                    System.out.print("G");
                }
            }
            System.out.println("\n");
        }
    }
}
```

Question Two

```
public class AmericanFlag {
    public static void main(String[] args) {
        for (int i = 0; i < 6; i++) {
            if (i < 3) {
                for (int j = 0; j < 11; j++) {
                    if (j < 5) {
                        System.out.print("* ");
                    } else {
                        System.out.print("=" );
                    }
                }
            } else {
                for (int j = 0; j < 11; j++) {
                    System.out.print("=" );
                }
            }
            System.out.println("\n");
        }
    }
}
```

```
public class AmericanFlag {
    public static void main(String[] args) {
        for (int i = 0; i < 6; i++) {
            for (int j = 0; j < 11; j++) {
                if (i < 3) {
                    if (j < 5) {
                        System.out.print("* ");
                    } else {
                        System.out.print("=" );
                    }
                } else {
                    System.out.print("=" );
                }
            }
            System.out.println("\n");
        }
    }
}
```

Question Three

```
public class CalculateMean {
    public static void main(String[] args) {
        int[] numbers = {2, 5, 5, 9, 4, 7, 0, 9, 6, 11, 12};

        int sum = 0;
        double mean;

        for (int number : numbers) {
            sum += number;
        }

        mean = (double) sum / numbers.length;

        System.out.println("Sum of numbers: " + sum);
        System.out.println("Mean of numbers: " + mean);
    }
}
```

```
import java.util.Arrays;
```

```
public class CalculateMedian {
    public static void main(String[] args) {
        int[] numbers = {2, 5, 5, 9, 4, 7, 0, 9, 6, 11, 12};

        Arrays.sort(numbers);

        double median;

        if (numbers.length % 2 == 0) {
            int mid1 = numbers[numbers.length / 2 - 1];
            int mid2 = numbers[numbers.length / 2];
            median = (mid1 + mid2) / 2.0;
        } else {
            median = numbers[numbers.length / 2];
        }

        System.out.println("Sorted numbers: " + Arrays.toString(numbers));
        System.out.println("Median: " + median);
    }
}
```

```

public class StandardDeviationCalculator {
    public static void main(String[] args) {
        int[] numbers = {2, 5, 5, 9, 4, 7, 0, 9, 6, 11, 12};
        double sum = 0;
        for (int number : numbers) {
            sum += number;
        }
        double mean = sum / numbers.length;

        double varianceSum = 0;
        for (int number : numbers) {
            varianceSum += Math.pow(number - mean, 2);
        }
        double variance = varianceSum / numbers.length;
        double standardDeviation = Math.sqrt(variance);

        System.out.println("Numbers: " + java.util.Arrays.toString(numbers));
        System.out.println("Mean: " + mean);
        System.out.println("Standard Deviation: " + standardDeviation);
    }
}

```

Question Four

```
import java.util.Scanner;
```

```

public class TwoDArrayInput {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int[][] array = new int[10][10];
        for (int i = 0; i < array.length; i++) {
            for (int j = 0; j < array[i].length; j++) {
                System.out.print("Enter value for index [" + i + "][" + j + "]: ");
                array[i][j] = scanner.nextInt();
            }
        }
        System.out.println("The values entered are:");
        for (int[] row : array) {
            for (int value : row) {
                System.out.print(value + " ");
            }
            System.out.println("\n");
        }
    }
}

```

Question Five

```
import java.util.Scanner;
```

```
public class ArrayInput {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
        int[] array = new int[10];  
  
        for (int i = 0; i < array.length; i++) {  
            System.out.print("Enter value for index " + i + ": ");  
            array[i] = scanner.nextInt();  
        }  
  
        System.out.println("The values entered are:");  
        for (int value : array) {  
            System.out.println(value);  
        }  
    }  
}
```