

MAP

```
import java.util.*;

public class Main
{
    public static void main(String[] args) {
        //List <Integer> score = new ArrayList <> ();
        Map <String, Integer> teamScore = new HashMap <> ();
        teamScore.put("Team sun", 10);
        teamScore.put("Team moon", 8);
        teamScore.put("Team water", 5);
        teamScore.put("Team earth", 6);
        teamScore.put("Team rock", 7);
        System.out.println(teamScore);
    }
}
```

SET

```
import java.util.*;
import java.util.ArrayList;
import java.util.List;
import java.util.Set;
import java.util.TreeSet;

public class Main {
    public static void main(String[] args) {
        Set <Integer> set = new TreeSet <> ();
        set.add(4);
        set.add(1);
        set.add(1);
        set.add(2);
        set.add(3);
        set.add(2);
        set.add(3);
        System.out.println(set);
    }
}
```

2D ARRAY

```
import java.util.*;

public class Main {
    public static void main(String[] args) {
        //int[][] numbers = new int[1][2];
        int[][] numbers = {{1,2,3},{4,5,6}};
        int sum = 0;
        int length = numbers.length;
        int result = 0;
        int avg;
        for(int i = 0; i < numbers.length; i++){
            for(int j = 0; j < numbers[i].length; j++){
                sum = 2 * numbers[i][j];
                System.out.println("Sum of 2 * each element is "+ sum);
            }
        }
    }
}
```

```

import java.util.*;

public class SumOfArray {
    public static void main(String[] args) {
        //int[][] numbers = new int[1][2];
        int[][] numbers = {{1,2,3},{4,5,6}};
        int sum = 0;
        for(int i = 0; i < numbers.length; i++){
            for(int j = 0; j < numbers[i].length; j++){
                sum += numbers[i][j];
                System.out.println("Total sum of each element in the array: "+
sum);
            }
        }
    }
}

```

ARRAY

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

```
public class Main {  
    public static void main(String[] args) {  
        int n = 5;  
        int[] a = {1, 2, 3, 4, 5};  
  
        int result = isSorted(n, a);  
        System.out.println(result);  
    }  
  
    public static int isSorted(int n, int[] a) {  
        for (int i = 0; i < n - 1; i++) {  
            if (a[i] > a[i + 1]) {  
                return 0;  
            }  
        }  
        return 1;  
    }  
}
```

ARRAY INDEX

```
import java.util.Scanner;
public class Main
{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the integer :");
        int index = sc.nextInt();
        int[] numbers = {1,2,3,4,5,6};
        for(int i = 0; i < numbers.length; i++){
            if(index == numbers[i]){
                numbers[i] = i;
            }
        }
        System.out.println(index - 1);
        /*
        for(int arrayIndex : numbers){
            System.out.println(arrayIndex);
        }
        */
    }
}
```

```
//import java.util.Arrays;
public class Main {
    public static void main(String[] args) {
        int[] numbers = new int[100];
        for (int index = 0; index < 100; index++) {
            numbers[index] = 200 - index;
            if(!(numbers[index]%2 == 0)){
                System.out.println(numbers[index]);
            }
        }
        //System.out.println(Arrays.toString(numbers));
        //for (int num : numbers) {
        //    System.out.println(num);
        //}
    }
}
```