

```

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

public class playwitharr {
    Scanner input = new Scanner(System.in).useLocale(Locale.US);
    Random r=new Random();
    int x[];
    double y[];
    String names[];
    //double total=0;
    public playwitharr() {
        x=new int[10];
        y=new double[10];
        names=new String[10];
    }

    public playwitharr(int size) {
        if(size<0)
            size=-size;
        x=new int[size];
        y=new double[size];
        names=new String[size];
    }

    public void rebyr() {
        for(int i =0;i<x.length;i++) {
            x[i]=1+r.nextInt(100);
        }
    }

    public void print() {
        for(int i =0;i<x.length;i++)
            System.out.println(x[i]+" , "+y[i]+" , "+names[i]);

        System.out.println("-----
");

```

```
}  
public void print1() {  
    for(int i =0;i<x.length;i++)  
        System.out.print("|"+i+": "+x[i]+"|, ");  
  
        System.out.println("\n-----  
-----  
-----");
```

```
}  
public void printReverse() {  
    for(int i =x.length-1;i>=0;i--)  
        System.out.print("|"+i+": "+x[i]+"|, ");  
  
        System.out.println("\n-----  
-----  
-----");
```

```
}  
public void printEven() {  
    for(int i =0;i<x.length;i++) {  
        if(x[i]%2==0) {  
            System.out.print("|"+i+": "+x[i]+"|, ");  
        }  
    }  
  
        System.out.println("\n-----  
-----  
-----");
```

```

    }
    public void printOdd() {
        for(int i = 0; i < x.length; i++) {
            if(x[i] % 2 != 0) {
                System.out.print("|" + i + ":" + x[i] + "|, ");
            }
        }

        System.out.println("\n-----
-----");

    }

    public void printEvenIndex() {
        for(int i = 0; i < x.length ; i += 2) {
            if(i % 2 == 0)
                System.out.print("|" + i + ":" + x[i] + "|, ");
        }

        System.out.println("\n-----
-----
---");

    }

    public void printOddIndex() {
        for(int i = 1; i < x.length; i += 2) {
            if(i % 2 != 0)
                System.out.print("|" + i + ":" + x[i] + "|, ");
        }

        System.out.println("\n-----
-----");
    }

```

-----");

```
}  
public double avg() {  
    double total=0;  
    for(int i =1;i<x.length;i++) {  
        total+=x[i];  
    }  
    if(x.length!=0)  
        return total= total/x.length;  
    else  
        return 0;  
}  
public int max() {  
    int maxi=x[0];  
    for(int i =1;i<x.length;i++) {  
        if(x[i]>maxi)  
            maxi=x[i];  
    }  
  
    return maxi;  
}  
public int min() {  
    int mini=x[0];  
    for(int i =1;i<x.length;i++) {  
        if(x[i]<mini)  
            mini=x[i];  
    }  
  
    return mini;  
}  
public int maxloc() {  
    int maxi=x[0];  
    int maxln=0;  
    for(int i =1;i<x.length;i++) {
```

```

        if(x[i]>maxi) {
            maxi=x[i];
            maxln=i;
        }
    }

    return maxln;
}

public int minloc() {
    int mini=x[o];
    int minlo=0;
    for(int i =1;i<x.length;i++) {
        if(x[i]<mini) {
            mini=x[i];
            minlo=i;
        }
    }

    return minlo;
}

public int getValue(int index) {
    if(index>=0&&index<x.length)
        return x[index];
    else
        return -1;
}

public int search(int t) {
    for(int i =1;i<x.length;i++) {
        if(x[i]==t)
            return i;
        //will return the location

    }
    return 0;
}
}

```



```

import java.util.Locale;
import java.util.Scanner;
import java.util.Random;
public class arr1 {

    public static void main(String[] args) {
        Scanner input = new
Scanner(System.in).useLocale(Locale.US);
        Random r=new Random();

        /*

        //part1
        //int x[]=new int [];
        //int x[]=new int[-10];
        //you can
        //int x[];
        //x=new int[10];
        //int []y=new int [10];
        int []x,y,z;
        //System.out.println(x.length);
        x=new int[10];//length=10
        z=new int[10];
        y=new int[10];
        System.out.println(x.length);
        //System.out.println(x.length());
        // char and double and int and string
        */
        /*
        //part 2
        System.out.println("enter the array size: ");
        int n;
        n=input.nextInt();
        int a[]=new int[n];
        System.out.println("The array size is "+a.length);
        */
        /*

```

part2

```
int []x,y,z;  
x=y=z=new int[10];  
System.out.println(x.length);  
System.out.println(y.length);  
System.out.println(z.length);  
x[0]=100;
```

```
System.out.println(x[0]);  
System.out.println(y[0]);  
System.out.println(z[0]);
```

```
System.out.println("-----  
-----");
```

```
x=new int[25];  
System.out.println(x.length);  
System.out.println(y.length);  
System.out.println(z.length);  
*/  
System.out.println("enter the array size: ");  
int n;  
playwitharr x;  
n=input.nextInt();  
System.out.println("The array size is "+n);
```

```
System.out.println("#####  
#####THE OUTPUT  
(INDEX:NO)#####  
#####");
```

```
//playwitharr a=new playwitharr(2);  
//playwitharr f=new playwitharr(-19); maybe run time  
playwitharr f=new playwitharr(-14);  
x=new playwitharr(n);  
//a.rebyr();  
x.printi();  
x.rebyr();
```



```

        //f.rebyr();
        //a.print();
        x.printt();
        x.printReverse();
        x.printEven();
        x.printOdd();
        x.printEvenIndex();
        x.printOddIndex();
        System.out.println("THE AVRAGE IS "+x.avg());
        System.out.println("THE MAX AND ITS LOCATION
|"+x.maxloc()+":"+x.max()+"|");
        System.out.println("THE MIN AND ITS LOCATION
|"+x.minloc()+":"+x.min()+"|");
        int m=x.maxloc();
        System.out.println("THE LOCATION IS "+m);
        //
        System.out.println("THE VALUE IS "+x.getValue(m));
        int no;
        System.out.println("ENTER THE NUMBER: ");
        no=input.nextInt();
        System.out.println(x.search(no));
        //f.print();

    }
}

```