EVEN AND ODD:

import java.util.\*;

class evenodd{

void func() {

int m,n,i,j;

System.out.println("enter the no of rows and columns");

Scanner obj=new Scanner(System.in);

m=obj.nextInt();

n=obj.nextInt();

int [][]a=new int[m][n];

int [][]b=new int[m][n];

System.out.println("enter the elements of MATRIX a:");

for(i=0;i<m;i++) {

for(j=0;j<n;j++) {

a[i][j]=obj.nextInt();

}

}

System.out.println("Transpose of matrix a:");

for(i=0;i<m;i++) {

for(j=0;j<n;j++) {

b[j][i]=a[i][j];

}

}

for(i=0;i<m;i++) {

for(j=0;j<n;j++) {

System.out.print(b[i][j]+"\t");

}

System.out.println();

}

}

}

class transpose extends evenodd{

void func() {

int m,i,k=0,l=0;

System.out.println("enter the size of array");

Scanner obj=new Scanner(System.in);

m=obj.nextInt();

int []a=new int[m];

int []even=new int[m];

int []odd=new int[m];

System.out.println("enter the array elemnets:");

for(i=0;i<m;i++) {

a[i]=obj.nextInt();

}

for(i=0;i<m;i++) {

if(a[i]%2==0) {

even[k]=a[i];

k++;

}

else {

odd[l]=a[i];

l++;

}

}

System.out.println("even array elements:");

for(i=0;i<k;i++) {

System.out.print(even[i]+"\t");

}

System.out.println();

System.out.println("odd array elements:");

for(i=0;i<l;i++) {

System.out.println(odd[i]+"\t");

}

}

}

public class two

{

public static void main(String[] args) {

evenodd a=new evenodd();

evenodd b=new transpose();

a.func();

b.func();

}

}