package Day7Assignment03;

import java.util.\*;

public class Input20Numbers {

public static void main(String[] args) {

Scanner s=new Scanner(System.***in***);

int arr[]=new int[20];

int Even=0,Odd=0,Zero=0,pos=0,neg=0;

int arr1[]=new int[20];

int arr2[]=new int[20];

int arr3[]=new int[20];

int arr4[]=new int[20];

int arr5[]=new int[20];

for(int i=0;i<20;i++)

{

System.***out***.println("Enter Number:");

arr[i]=s.nextInt();

if(arr[i]>0)

{ arr1[pos]=arr[i];

pos++;

if(arr[i]%2==0)

{

arr2[Even]=arr[i];

Even++;

}

else{

arr3[Odd]=arr[i]; Odd++;

}

}

else if(arr[i]<0)

{

arr4[neg]=arr[i];

neg++;

if(arr[i]%2==0)

{

arr2[Even]=arr[i];

Even++;}

else {

arr3[Odd]=arr[i];

Odd++;}

}

else if(arr[i]==0)

{ arr5[Zero]=arr[i];

Zero++;

}

}

System.***out***.print("Positive numbers:");

for(int i=0;i<pos;i++)

System.***out***.print(" "+arr1[i]);

System.***out***.print("\nNegative numbers:");

for(int i=0;i<neg;i++)

System.***out***.print(" "+arr2[i]);

System.***out***.print("\nOdd numbers:");

for(int i=0;i<Odd;i++)

System.***out***.print(" "+arr3[i]);

System.***out***.print("\nEven numbers:");

for(int i=0;i<Even;i++)

System.***out***.print(" "+arr4[i]);

System.***out***.print("\nZeros:");

for(int i=0;i<Zero;i++)

System.***out***.print(" "+arr5[i]);

s.close();

}

}

OUTPUT

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

0

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Enter Number:

10

Positive numbers: 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10

Negative numbers:

Odd numbers:

Even numbers: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Zeros: 0