import java.util.Scanner;

public class Main{

public static void main(String[] args){

Scanner sc=new Scanner(System.in);

int [] arr1={1,2,3,4};

int [] arr2={4,3,1};

for(int i=0;i<arr1.length;i++){

System.out.print(arr1[i]);

}

System.out.println();

for(int j=0;j<arr2.length;j++){

System.out.print(arr2[j]);

}

int intersectionLength=arr1.length;

if(arr2.length<arr1.length){

intersectionLength=arr2.length;

}

System.out.println();

int [] intersectionArray=new int[intersectionLength];

int k=0;

for(int i=0;i<arr1.length;i++){

for(int j=0;j<arr2.length;j++){

if(arr1[i]==arr2[j]){

intersectionArray[k++]=arr1[i];

break;

}

}

}

System.out.println("intersection array of arr 1&2 is : ");

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

System.out.print(intersectionArray[i]);

}

}

}

With variation in for loops

import java.util.Scanner;

public class Main{

public static void main(String[] args){

Scanner sc=new Scanner(System.in);

int [] arr1={1,2,3,4};

int [] arr2={4,3,1};

for(int v:arr1){

System.out.print(v);

}

System.out.println();

for(int v:arr2){

System.out.print(v);

}

int intersectionLength=arr1.length;

if(arr2.length<arr1.length){

intersectionLength=arr2.length;

}

System.out.println();

int [] intersectionArray=new int[intersectionLength];

int k=0;

for(int v:arr1){

for(int a:arr2){

if(v==a){

intersectionArray[k++]=v;

break;

}

}

}

System.out.println("intersection array of arr 1&2 is : ");

for(int c:intersectionArray){

System.out.print(c);

}

}

}