**1.//Count Duplicates:**

import java.util.ArrayList;

import java.util.ArrayList;

import java.util.Collections;

import java.util.HashSet;

public class Practice

{

public int getDupCount(ArrayList<String> l)

{

int cnt = 0;

HashSet<String> h = new HashSet<String>(l);

for (String token : h)

{

if (Collections.frequency(l, token) > 1)

cnt++;

}

return cnt;

}

public static void main(String [] args)

{

Practice p = new Practice();

ArrayList<String> l = new ArrayList<String>();

l.add("cat");

l.add("dog");

l.add("cat");

l.add("dog");

l.add("cow");

l.add("dog");

l.add("duck");

l.add("duck");

l.add("goose");

System.out.println("Number of duplicates elements = " + p.getDupCount(l));

}

}

**2.//Isomorphic Strings**

public static boolean isIsomorphic (String s1 , String s2){

if (s1 == null || s2 == null){

throw new IllegalArgumentException();

}

if (s1.length() != s2.length()){

return false;

}

HashMap<Character, Character> map = new HashMap<>();

for (int i = 0 ; i < s1.length(); i++){

if (!map.containsKey(s1.charAt(i))){

if(map.containsValue(s2.charAt(i))){

return false;

} else{

map.put(s1.charAt(i), s2.charAt(i));

}

} else{

if( map.get(s1.charAt(i)) != s2.charAt(i)){

return false;

}

}

}

return true;

}

**// Print GrandSon's name.**

import java.util.\*;

public class Hello {

public static void main(String[] args) {

//Your Code Here

Scanner sc = new Scanner(System.in);

ArrayList<String> fname = new ArrayList<String>();

ArrayList<String> lname = new ArrayList<String>();

for(int i=0;i<3;i++){

fname.add(sc.next());

lname.add(sc.next());

}

Map<String, String> map = new HashMap<String, String>();

for(int i=0;i<3;i++){

map.put(fname.get(i), lname.get(i));

}

int flag =0;

for(Map.Entry<String, String> m: map.entrySet()){

for(int i =0;i<3;i++){

if(m.getKey().equals(lname.get(i))){

flag = 1;

break;

}else{

flag = 0;

}

}

if(flag == 0){

System.out.println(m.getKey()+" "+m.getValue());

break;

}else{

continue;

}

}

}

}

**import java.io.\*;**

**import java.util.\*;**

**import java.text.\*;**

**import java.math.\*;**

**import java.util.regex.\*;**

**public class Solution {**

**public static void main(String[] args) {**

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

**int[] arr = new int[5];**

**for(int arr\_i=0; arr\_i < 5; arr\_i++){**

**arr[arr\_i] = in.nextInt();**

**}**

**int[] sum = 0;**

**int min = Integer.MAX\_VAL;**

**int max = Integer.MIN\_VAL;**

**for(int i=0;i<5;i++){**

**int j = arr[i];**

**for(int k=0;k<5;k++){**

**if(arr[k]!=j){**

**sum+=arr[k];**

**}**

**}**

**min = Math.min(min,sum);**

**max = Math.max(max,sum);**

**sum=0;**

**}**

**System.out.print(min+" "+max);**

**}**

**}**