package org.mphasis.strings;

import java.util.Iterator;

import java.util.Scanner;

public class ArrayBingo {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter Length");

int length = sc.nextInt();

System.out.println("Enter List of Numbers ");

int arr[] = new int[length];

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

arr[i] = sc.nextInt();

}

System.out.println("Enter First Searching Element");

int n1 = sc.nextInt();

System.out.println("Enter Second Searching Element");

int n2 = sc.nextInt();

if (isBingo(arr, n1, n2)!=false)

System.err.println("Its Bingo");

else

System.err.println("Not Found");

}

private static boolean isBingo(int[] arr, int n1, int n2) {

boolean b1 = false, b2 = false;

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

if (n1 == arr[i])

b1 = true;

if (n2 == arr[i])

b2 = true;

}

return b1 == b2;

}

}

**package** org.mphasis.strings;

**import** java.util.Iterator;

**public** **class** ArrayOperation {

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

**int** arr[] = {3, 2, 4, 5, 6, 4, 5, 7, 3, 2, 3, 4, 7, 1, 2, 0, 0, 0};

**int** sum=0;

**for** (**int** i = 0; i <=14; i++)

sum=sum+arr[i];

arr[15]=sum;

sum=0;

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

sum=sum+arr[i];

}

**int** avg=sum/arr.length;

arr[16]=avg;

**int** a=arr[0];

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

**if**(a>arr[i]) {

a=arr[i];

}

}

arr[17]=a;

System.***out***.println("Array Elements : ");

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

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

}

}

}

**package** org.mphasis.strings;

**public** **class** ArraySort {

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

**int** a[] = {2, 6, 23, 98, 24, 35, 78};

**int** val=a[0];

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

}

}

}

**package** org.mphasis.strings;

**import** java.util.Scanner;

**public** **class** ArraySurrounding {

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

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

System.***out***.println("Enter No of Columns");

**int** col = sc.nextInt();

System.***out***.println("Enter No of Rows");

**int** row = sc.nextInt();

**int** arr[][] = **new** **int**[col][row];

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

**for** (**int** j = 0; j < row; j++) {

arr[i][j] = sc.nextInt();

}

}

System.***out***.println("Before Transpose");

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

**for** (**int** j = 0; j < row; j++) {

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

}

System.***out***.println();

}

*toTranspose*(arr, col, row);

}

**private** **static** **void** toTranspose(**int**[][] arr, **int** col, **int** row) {

System.***err***.println("The Result Is : ");

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

**for** (**int** j = 0; j < row; j++) {

**if**(i==0 || i==col-1 || j==0 || j==row-1)

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

**else**

System.***out***.print(" ");

}

System.***out***.println();

}

}

}

**package** org.mphasis.strings;

**import** java.util.Scanner;

**public** **class** FindLEngthOfString {

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

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

System.***out***.println("Enter String");

String s = sc.nextLine();

System.***out***.println(s.substring(5, 6));

System.***out***.println(s + " : length is : " + s.length());

System.***out***.println(s + " The Upper Case is " + s.toUpperCase());

**if** (*isPalimdrome*(s).equals(s))

System.***out***.println(s + " is a Palindrme");

**else**

System.***out***.println(s + " is a not Palindrme");

}

**private** **static** String isPalimdrome(String s) {

String rev = "";

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

rev = s.charAt(i) + rev;

}

**return** rev;

}

}

**package** org.mphasis.strings;

**public** **class** OnlineShopping {

**public** String name;

**public** **long** ccn;

**public** **int** expMonth;

**public** **int** expYear;

**public** **int** cvv;

**static** String cardNumber(Long num) {

String count = num + "";

String ccn = "";

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

ccn = ccn + count.charAt(i);

**if** ((i + 1) % 4 == 0 && i!=count.length()-1) {

ccn = ccn + "-";

}

}

**return** ccn;

}

**public** OnlineShopping(String name, **long** ccn, **int** expMonth, **int** expYear, **int** cvv) {

**if** ((name !=**null** || name !="") && ccn != 0 && expMonth != 0 && expMonth != 0 && expYear != 0 && cvv != 0) {

**this**.name = name;

**this**.ccn = ccn;

**this**.expMonth = expMonth;

**this**.expYear = expYear;

**this**.cvv = cvv;

} **else** {

System.***out***.println("Invalid Dta Entry");

}

}

}

**package** org.mphasis.strings;

**import** java.util.Scanner;

**public** **class** TestOnline {

**private** **static** **int** countDigit(**long** num) {

**int** count = 0;

**while** (num > 0) {

count++;

num = num / 10;

}

**return** count;

}

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

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

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

**long** ccn = sc.nextLong();

System.***out***.println("Enter Month");

**int** month = sc.nextInt();

System.***out***.println("Enter Year");

**int** year = sc.nextInt();

System.***out***.println("Enter CVV");

**int** cvv = sc.nextInt();

System.***out***.println("Enter Your Name");

String name = sc.next();

OnlineShopping os;

**if** (*countDigit*(ccn) == 16 && *countDigit*(cvv) == 3) {

os = **new** OnlineShopping(name, ccn, month, year, cvv);

System.***err***.println("Details Entered Are : ");

System.***out***.println("Name : " + os.name);

System.***out***.println("Card Number : " + os.*cardNumber*(os.ccn));

System.***out***.println("Expiry Date : " + os.expMonth + "/" + os.expYear);

} **else** {

System.***err***.println("Invalid dat Entry");

}

}

}

**package** org.mphasis.strings;

**import** java.util.Scanner;

**public** **class** Transpose {

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

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

System.***out***.println("Enter No of Columns");

**int** col = sc.nextInt();

System.***out***.println("Enter No of Rows");

**int** row = sc.nextInt();

**int** arr[][] = **new** **int**[col][row];

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

**for** (**int** j = 0; j < row; j++) {

arr[i][j] = sc.nextInt();

}

}

System.***out***.println("Before Transpose");

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

**for** (**int** j = 0; j < row; j++) {

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

}

System.***out***.println();

}

*toTranspose*(arr, col, row);

}

**private** **static** **void** toTranspose(**int**[][] arr, **int** col, **int** row) {

**int** a[][] = **new** **int**[row][col];

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

**for** (**int** j = 0; j < row; j++) {

a[j][i] = arr[i][j];

}

}

System.***out***.println("After Transpose");

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

**for** (**int** j = 0; j < row; j++) {

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

}

System.***out***.println();

}

}

}

**package** org.mphasis.strings;

**import** java.util.Scanner;

**public** **class** VowelCount {

**static** String toCountVowel(String str) {

String string = "";

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

**char** c = str.charAt(i);

**if** (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u' || c == 'A' || c == 'E' || c == 'I' || c == 'O'

|| c == 'U')

string=string+c;

}

**return** string;

}

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

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

System.***out***.println("Enter String");

String str = sc.next();

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

**int** num = sc.nextInt();

String st = *toCountVowel*(str);

**if** (st.length() <= num)

System.***out***.println(st);

**else**

System.***out***.println("‘Mismatch in Vowel Count");

}

}