//Arrays

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package program8;

import java.util.Scanner;

public class Program8 {

//Class variables

static Scanner keyboard = new Scanner(System.in);

static int[] numbers;

public static void main(String[] args) {

int query;

//Populate Array

PopulateArray();

//Get the Max

System.out.println("The largest number is : "+Max(numbers));

//Search the Array

System.out.println("Enter number to be searched in the array : ");

query = keyboard.nextInt();

if(SearchArray(query,numbers) != -1){

System.out.println("The number you searched was found at index "+ SearchArray(query,numbers) );

} else System.out.println("Not Found");

// Print the Array

PrintArray();

}

public static void PopulateArray()

{

System.out.println("How many numbers will you like to enter : ");

numbers = new int[keyboard.nextInt()];

System.out.println("Enter "+ numbers.length + " numbers to add");

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

numbers[i] = keyboard.nextInt();

}

}

public static int Max(int [] arr)

{

int max= arr[0];

for (int i = 1; i < arr.length; i++) {

if (arr[0] < arr[i])

{

max = arr[i];

}

}

return max;

}

public static int SearchArray (int val, int [] arr)

{

int sub = -1;

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

if (val == arr[i]) {

sub = i;

}

}

return sub;

}

public static void PrintArray()

{

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

System.err.println(numbers[i]);

}

}

}

OUTPUT

run:

How many numbers will you like to enter :

3

Enter 3 numbers to add

5

6

7

The largest number is : 7

Enter number to be searched in the array :

6

The number you searched was found at index 1

5

6

7

BUILD SUCCESSFUL (total time: 13 seconds)