**smallest distance between two numbers**

package com.exercise.eclipse.ide.first;

import java.util.Arrays;

import java.util.Scanner;

public class MyCode

{

public static void main(String[]args)

{

int []arr= new int[]{4,8,6,1,2,9,4};

smallestDistance(arr);

}

private static void smallestDistance(int [] array)

{

int smallest = Math.abs(array[0]-array[1]);

int index = 0;

for(int i=1; i<array.length-1; i++)

{

int value = Math.abs(array[i]-array[i+1]);

if(value< smallest)

{

smallest= value;

index = i;

}

}

System.out.println(smallest);

System.out.println(index);

}

}