[ LÊ MINH KHÔI ]

BẢN 1

public static void main(String[] args) {

int[] array = {5, 1, 12, -5, 16}; // SAI YÊU CẦU

bubbleSort(array); // SAI YÊU CẦU

for (int x : array) // SAI YÊU CẦU

{

System.out.print(x + " ");

}

}

static boolean check(int...x) // SAI YÊU CẦU

{

int len = x.length;

for (int i = 0; i < len - 1; i++)

{

if (x[i] > x[i + 1]) return false; // SAI YÊU CẦU

}

return true;

}

static void bubbleSort(int...x)// SAI YÊU CẦU

{

int len = x.length;

while (!check(x))

{

for (int i = 0; i < len - 1; i++)

{

if (x[i] > x[i + 1])

{

int tmp = x[i];

x[i] = x[i + 1];

x[i + 1] = tmp;

}

}

}

}

BẢN 2

import java.util.Arrays;

import java.util.Random;

import java.util.Scanner;

public class RandomArray {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter number of array: "); // DAT TEN BIEN KHONG CO Y NGHIA

int num = Integer.parseInt(sc.nextLine()); // SAI YEU CAU

int[] arr = new int[num];

Random rand = new Random();

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

arr[i] = rand.nextInt(100);

}

System.out.print("Unsorted array: ");

System.out.println(Arrays.toString(arr));// SAI YEU CAU

bubbleSort(arr);

System.out.print("Sorted array: ");

System.out.println(Arrays.toString(arr));// SAI YEU CAU

}

static void bubbleSort(int...x)

{

int len = x.length;

int count = 0;

do

{

count = 0;

for (int i = 0; i < len - 1; i++)

{

if (x[i] > x[i + 1])

{

int tmp = x[i];

x[i] = x[i + 1];

x[i + 1] = tmp;

++count;

}

}

}

while (count >= 1);

}

}

[ TRAN MINH SON ]

public static void main(String[] args) {

int temp; // SAI YEU CAU

System.out.println("Enter number of array: ");

Scanner sc = new Scanner(System.in);

int n = sc.nextInt(); // SAI YEU CAU

int[] arr = new int[n]; // SAI YEU CAU

System.out.println("Unsorted array:");

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

arr[i] = sc.nextInt();// SAI YEU CAU

}

for (int i = 0; i < n - 1; i++) {

for (int j = i; j < n; j++) { // CHUA TOI UU

if (arr[i] > arr[j]) {

temp = arr[i];

arr[i] = arr[j];

arr[j] = temp;

}

}

}

System.out.println("\n");

System.out.println("Sorted array:");

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

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

}

}

[ LINH LINH ]

package j1.s.p0001;

import java.util.Scanner;

public class Bubblesort {

public static void main(String[] args) {

Scanner s = new Scanner(System.in); // SAI YEU CAU

int n = s.nextInt(); // SAI YEU CAU

int []arr = new int[n]; // SAI YEU CAU

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

arr[i] = s.nextInt(); // SAI YEU CAU

}

int temp = arr[0]; // SAI YEU CAU

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

for (int j = i+1; j < arr.length; j++) { // KHONG TOI UU

if(arr[i] > arr[j]){

temp = arr[j];

arr[j] = arr[i];

arr[i] = temp;

}

}

}

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

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

}

}

}

[ bình dương ]

package Bubble\_Sort;

import java.util.Scanner;

public class BubbleSort

{

public static Scanner scanner = new Scanner(System.in); // acp

public static void main(String []args)

{

System.out.printf("So phan tu cua mang:");

int n = scanner.nextInt();// sai yeu cau

int []arr = new int [n]; // sai yeu cau

for (int i = 0; i < n; i++)

{

System.out.printf("arr[" + i + "]" + "= ");// sai yeu cau

arr[i] = scanner.nextInt();// sai yeu cau

}

int temp;

for (int i = 0; i < n-1; i++)

{

for(int j=0;j<n-1;j++)// ko toi uu

{

if(arr[j]>arr[j+1])

{

temp = arr[j];

arr[j] = arr[j+1];

arr[j+1] = temp;

}

}

}

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

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

}

}

}

[HOANG KHANH]

import java.util.Scanner;

public class NewClass {

public static Scanner sc = new Scanner (System.in); // ok

public static int SizeOfArray() {

System.out.print("Enter number of array: ");

int n = sc.nextInt(); // sai yeu cau

return n;

}

public static int[] SetValue(int n){ // sai yeu cau

int[] arr = new int [n];

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

System.out.println("a[" + i + "]:"); // sai yeu cau

}

return arr;

}

public static void BubbleSort(int[] arr){

System.out.println("Unsorted array:");

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

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

}

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

for (int j=0; j< arr.length ;j++){ // khong toi uu

if (arr[j] > arr[j+1]){

int x = arr[j];

arr[j] = arr[j+1];

arr[j+1] = x;

}

}

}

System.out.println();

}

public static void main(String[] args) {

int n = SizeOfArray();

int[] arr = SetValue(n);

BubbleSort(arr);

System.out.println(arr); // sai yeu cau

}

}