My codes:

Quick sort

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner sc= new Scanner(System.in);

int n= sc.nextInt();

int arr[] = new int[n];

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

arr[i]= sc.nextInt();

}

div(arr, 0,n-1);

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

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

}

}

private static void div(int arr[], int lindex, int hindex){

if(lindex >= hindex){

return ;

}

int pivot = arr[hindex];

int lpoint = lindex;

int rpoint = hindex;

while(lpoint < rpoint){

while(arr[lpoint] <= pivot && lpoint < rpoint){

lpoint ++;

}

while(arr[rpoint] >= pivot && lpoint < rpoint){

rpoint --;

}

swap(arr,lpoint,rpoint);

}

swap(arr,lpoint,hindex);

div(arr,lindex,lpoint-1);

div(arr,lpoint+1,hindex);

}

private static void swap(int arr[],int n1,int n2){

int temp = arr[n1];

arr[n1] = arr[n2];

arr[n2] = temp;

}

}

/\*

a b c max

\*/

import java.util.Scanner;

public class Main{

public static void main(String[] args){

Scanner n = new Scanner(System.in);

int a = n.nextInt();

int b = n.nextInt();

int c = n.nextInt();

if(a>b){

if(a>c){

System.out.println("a is greater");

System.out.println(" the largest is " + a);

}else

System.out.println("c is greater");

System.out.println(" the largest is " + c);

}else if(b>c){

System.out.println("b is gretaer");

System.out.println(" the largest is " + b);

}else{

System.out.println("cis gretaer");

System.out.println(" the largest is " + c);

}

}

}

2)

/\*

fibonacci of number and series upto that number: 0 1 1 2 3 5 8

\*/

import java.util.Scanner;

public class Main{

private static int fibo(int n){

if (n<=1){

return n;

}else

{

return fibo(n-2) +fibo(n-1);

}

}

public static void main(String[] args){

Scanner a = new Scanner(System.in);

int n= a.nextInt();

System.out.println( "the number is:" +fibo(n));

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

System.out.print(fibo(i));

}

}

}

3) /\*

a game slct a rnm num from 1 2 100 and guessyour number it will say higher or lower or same number

\*/

import java.util.Scanner;

import java.util.Random;

public class Main{

public static void main(String[] args){

Random r = new Random();

Scanner s = new Scanner(System.in);

int rand = r.nextInt(100)+1;

int count=0;

System.out.println("guess the number from 1 to 100");

while(true){

int n= s.nextInt();

count++;

if(rand==n)

{

System.out.println("yes");

System.out.println(count);

break;

}else if(rand<n){

System.out.println("greater");

}else{

System.out.println("lower");

}

}

}

}

/\* taking aray as input in java

import java.util.Scanner;

public class Main{

public static void main(String[] args){

Scanner a = new Scanner(System.in);

int N = a.nextInt();

String[] arr = new String[N];

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

arr[i] = a.next();

}

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

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

}

}

}

Insertion sort:

Time complexity :O(n^2)

Code:

/\*

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Online Java is a quick and easy tool that helps you to build, compile, test your programs online.

\*/

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

int arr[] = new int[n];

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

arr[i]= sc.nextInt();

}

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

System.out.println(" the element before sortted:" + arr[i]);

}

insertion(arr,n);

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

System.out.println(" the element after sortted:" + arr[i]);

}

}

static void insertion(int arr[], int n){

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

int temp = arr[i];

int j = i-1;

while(j >=0 &&arr[j]>temp){

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

j--;

}

arr[j+1] = temp;

}

}

}