public class InsertionSort {

public static void main(String[] args){

int[] arr = {9,12,3,21,44};

insertionSort(arr);

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

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

}

}

public static void insertionSort(int[] arr){

int len = arr.length;

for(int j=1;j<len;j++){

int key = arr[j];

int i=j-1;

while ((i>-1) && (arr[i]>key)){

arr[i+1]=arr[i];

i--;

}

arr[i+1]=key;

}

}

}