public class InsertionSort{

void sort(int arr[])

{

int n = arr.length;

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

int key=arr[i];

int j=i-1;

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

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

j=j-1;

}

arr[j+1]=key;

}

}

static void printArray(int arr[])

{

int n=arr.length;

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

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

System.out.println();

}

public static void main(String args[])

{

int arr[]={12,11,13,5,6};

InsertionSort ob=new InsertionSort();

ob.sort(arr);

printArray(arr);

}

}