**package** sort;

**import** java.util.Scanner;

**public** **class** InsertionSort {

**public** **static** **void** insertionSort(**int** array[]) {

**int** n = array.length;

**for** (**int** j = 1; j < n; j++) {

**int** key = array[j];

**int** i = j-1;

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

array [i+1] = array [i];

i--;

}

array[i+1] = key;

}

}

**public** **static** **void** main(String a[]){

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("enter size of array");

**int** n=sc.nextInt();

**int** arr[]=**new** **int**[n];

System.***out***.println("Enter elements in array");

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

arr[i]=sc.nextInt();

}

System.***out***.println("Before Insertion Sort");

**for**(**int** i:arr){

System.***out***.print(i+" ");

}

System.***out***.println();

*insertionSort*(arr);

System.***out***.println("After Insertion Sort");

**for**(**int** i:arr){

System.***out***.print(i+" ");

}

}

}