**package** com;

**public** **class** insertion {

**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[]){

**int**[] arr1 = {23,45,1,2,3,555,4,3,4};

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

**for**(**int** i:arr1){

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

}

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

*insertionSort*(arr1);

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

**for**(**int** i:arr1){

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

}

}

}