**package** searchingalgorithms;

**import** java.util.Arrays;

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

// **TODO** Auto-generated method stub

**private** **static** **void** InsertionSort(**int**[] arr) {

// **TODO** Auto-generated method stub

}**public** **static** **void** main(String[] args) {

**int**[] arr = { 9, 6, 77, 1, 2, 46, 5 };

System.***out***.println("GIVEN ARRAY : " + Arrays.*toString*(arr));

*insertionSort*(arr);

System.***out***.println("SORTED ARRAY : " + Arrays.*toString*(arr));

}

**private** **static** **void** insertionSort(**int**[] arr) {

**for** (**int** i = 1; i < arr.length; i++) {

**int** temp = arr[i];

**int** j = i - 1;

**while** (j>-1 && temp < arr[j]) {

// swap

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

arr[j] = temp;

j--;

}

}

}

}

