

```

package datastructure.Sort;

public class InsertionSort {

    // 0  1  2  3  4
    // 1, 2, 3, 4, 5

    void sort(int[] arr) {

        int temp;

        for (int i = 1; i < arr.length; i++) {
            for (int j = i; j > 0; j--) {
                if (arr[j] < arr[j - 1]) {
                    temp = arr[j];
                    arr[j] = arr[j - 1];
                    arr[j - 1] = temp;
                }
            }
        }
    }

    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[] = { 5, 2, 3, 1, 4 };
    }
}

```

```
        InsertionSort obj = new InsertionSort();  
        obj.sort(arr);  
        printArray(arr);  
    }  
}
```