```java
package datastructure.Sort;


class BubbleSort {
    //  0   1   2   3   4
    //  1,  2,  3,  4,  5


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

                }
    }


    void printArray(int[] arr) {
        for (int i = 0; i < arr.length; ++i)
            System.out.print(arr[i] + " ");
        System.out.println();
    }


    public static void main(String[] args) {
        BubbleSort ob = new BubbleSort();
        int arr[] = { 4, 3, 5, 2, 1 };
        ob.bubbleSort(arr);
        System.out.println("Sorted array");
```

```
        ob.printArray(arr);
    }
}
```