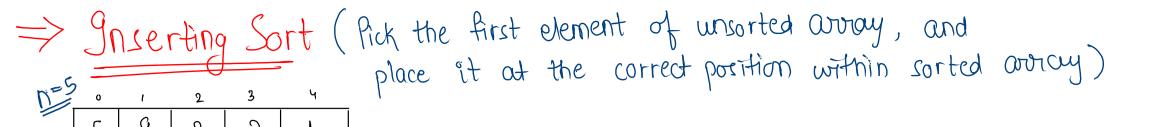
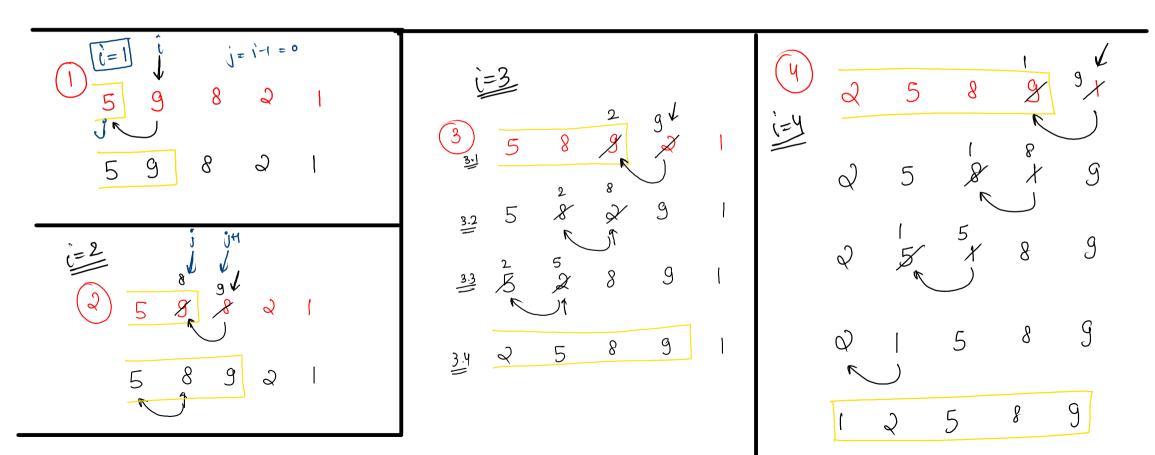


Exp: Each time compare 2 adjacent element and if larger element is on the left then swap both values



```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   int[] arr = new int[n];
   for (int i = 0; i < n; i++) {
       arr[i] = scn.nextInt();
   bubbleSort(arr, n);
public static void bubbleSort(int[] arr, int n) {
   for (int i = 1; i < n; i++) {
       for (int j = 0; j < n - i; j++) {
           if ( arr[j] > arr[j + 1] ) {
               swap(arr, j, j + 1);
   }
   for (int i = 0; i < n; i++) {
       System.out.print(arr[i] + " ");
public static void swap(int[] arr, int x, int y) {
   int temp = arr[x];
   arr[x] = arr[y];
   arr[y] = temp;
```







```
public static void insertionSort(int[] arr, int n) {
                                                                       J= 0
                                                             \tilde{l} = 1
   // main logic
    for (int i = 1; i < n; i++) { // n - 1 times
        for (int j = i - 1; j >= 0; j--) {
            if (arr[j] > arr[j + 1]) {
                swap(arr, j, j + 1);
            } else {
                break;
   // print array
    for (int i = 0; i < n; i++) {
        System.out.print(arr[i] + " ");
```