

psudo code

```
- for (int i=0; i<n-1; i++) { /(n-1) times

int mini = i;

for (int j= i; j<n; j++) {

   if ( avr[j] < avr[mini]) {

      mini = j;

   }
         swap (avor, i, mini);
```

```
code
```

```
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();
    }
    selectionSort(arr, n);
// main logic
public static void selectionSort(int[] arr, int n) {
    for (int i = 0; i < n - 1; i++) {
        swap(arr, i, mini);
    // printing
    for (int i = 0; i < n; i++) {
        System.out.print(arr[i] + " ");
    }
public static void swap(int[] arr, int i, int j) {
    int temp = arr[i];
    arr[i] = arr[j];
    arr[i] = temp;
```

```
count sort
radin sort
heap sort
```



previously checking for larger element now, check for smaller element

```
Inbuilt Sort function
```

```
Arrays. Sout (aver_name);
 public static void main(String[] args) {
     Scanner scn = new Scanner(System.in);
     int n = scn.nextInt();
     int[] arr = new int[n];
     // input
     for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
     // in built function
     Arrays.sort(arr);
     // printing
     for (int i = 0; i < n; i++) {
        System.out.print(arr[i] + " ");
```

```
Tonly for increasing order
```

```
9)
```

## Arrays. Sout ( over, Collections. reverse Order ());

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Integer[] arr = new Integer[n];
    // input
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    // in built function
 → Arrays.sort(arr, Collections.reverseOrder());
    // printing
    for (int i = 0; i < n; i++) {
        System.out.print(arr[i] + " ");
```