increasing order using inbuilt sort

```
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();
    }

Arrays.sort(arr);

for (int i = 0; i < n; i++) {
        System.out.print(arr[i] + " ");
    }
}</pre>

Arrays.sort
```

decreasing order using inbuilt sort

```
public static void main(String[] args) {
    /* Enter your code here. Read input from STDIN.
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Integer[] arr = new Integer[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    }

Arrays.sort(arr, Collections.reverseOrder());

for (int i = 0; i < n; i++) {
        System.out.print(arr[i] + " ");
    }
}</pre>
```

concept which is used to modify given function according. (om parable public static class myComparator implements Comparator<Integer> { @Override public int compare(Integer a, Integer b) { return a_b; // smaller value will come first } Java return b-a; // Jayar value will come first

```
public static void main(String[] args) {
    /* Enter your code here. Read input from STDIN. Print output t
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Integer[] arr = new Integer[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    }

Arrays.sort(arr, new myComparator());

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

public static class myComparator implements Comparator<Integer> {
    @Override
    public int compare(Integer a, Integer b) {
        return b - a;
    }
}
```

short version: - Lambda function

> lambda function **

// defenition

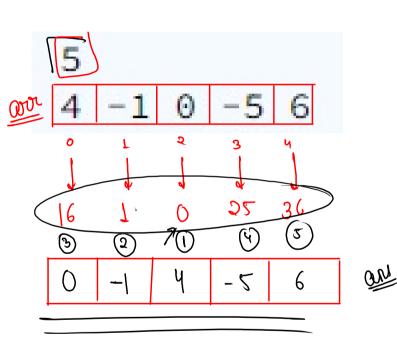
```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Integer[] arr = new Integer[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    }

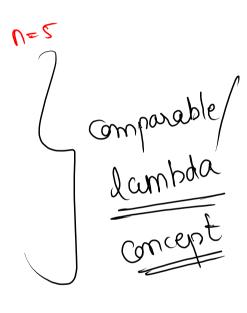
Arrays.sort(arr, (a, b) -> { // lambda function
        return b - a;
    });

for (int i = 0; i < n; i++) {
        System.out.print(arr[i] + " ");
    }
}</pre>
Acreasng:

decreasng:
```

Sort the array according to their Square of each element





```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Integer[] arr = new Integer[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    }

Arrays.sort( arr, (a, b) -> { // lambda function return a * a - b * b; });

for (int i = 0; i < n; i++) {
        System.out.print(arr[i] + " ");
    }
}</pre>
```