

## Programming Assignment

In the startup package for this problem, code is provided as a starting point. The main method in the Main class populates an ArrayList of SmartPhone and then attempts to sort the ArrayList by following requirements.

Ascending order by brand name, Descending order by brand name and by Price comparator.

To accomplish this, implement the Comparable interface in SmartPhone. And also create a PriceComparator class whose compare method orders SmartPhone objects in increasing order of price.

After implementing, when you run the main method, the output should look like this: Prints to the console. This must be done without a loop. Hint: Use forEach again.

### Brand name ascending order:

Apple ,iPhone4S ,1000  
Nokia ,Lumia 800 ,600  
Samsung ,Galaxy Ace ,800

### Brand name descending order:

Samsung ,Galaxy Ace ,800  
Nokia ,Lumia 800 ,600  
Apple ,iPhone4S ,1000

### By PriceComparator:

Nokia ,Lumia 800 ,600  
Samsung ,Galaxy Ace ,800  
Apple ,iPhone4S ,1000

Reference:

<https://www.journaldev.com/16094/java-collections-sort>