

Collections.sort

[https://docs.oracle.com/javase/7/docs/api/java/util/Collections.html#sort\(java.util.List\)](https://docs.oracle.com/javase/7/docs/api/java/util/Collections.html#sort(java.util.List))

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.Comparator;

/**
 *
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 */
public class JavaApplication1 {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here

        ArrayList<Note> lesNotes = new ArrayList();

        lesNotes.add ( new Note ( "Pasqualini", 18));
        lesNotes.add ( new Note ( "Bourgeois", 19));
        lesNotes.add ( new Note ( "Techer", 15));
        lesNotes.add ( new Note ( "Bogusz", 17));

        // Tri sur la note "à la demande"
        Collections.sort ( lesNotes,
            new Comparator<Note>(){
                public int compare (Note n1, Note n2){
                    if (n1.note == n2.note) return 0;
                    if (n1.note > n2.note) return 1;
                    return -1;
                }
            });

        System.out.println("----Trie sur la note----");
        for ( Note n : lesNotes ){
            System.out.println (n.nom + ":" + n.note);
        }

        // Tri sur le nom implémenter dans Note
        Collections.sort ( lesNotes );
        System.out.println("----Trie sur le nom----");
        for ( Note n : lesNotes ){
            System.out.println (n.nom + ":" + n.note);
        }
    }
}
```

```
    }  
  
}  
  
class Note implements Comparable<Note>{  
    public String nom;  
    public int note;  
  
    public Note ( String nom, int note){  
        this.nom = nom;  
        this.note = note;  
    }  
  
    public int compareTo ( Note autreNote){  
        return nom.compareTo(autreNote.nom);  
    }  
}
```

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