

## A java comparison example

```
/** A simple example of using the Comparable interface */
import java.util.*;
import java.text.SimpleDateFormat;
public class comparisonEx1 implements Comparable<comparisonEx1> {
    int i;
    String s;
    Date d;
    public comparisonEx1(int i, String s, Date d){
        this.i=i;
        this.s=s;
        this.d=d;
    }

    /* here we define a compareTo() method based on the String field */
    public int compareTo(comparisonEx1 a){
        return this.s.compareTo(a.s); //We are using the built-in lexical String comparison.
    }

    public static void main(String[] args) throws Exception{
        SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
        Date d1=sdf.parse("1950-12-25");
        Date d2=sdf.parse("1970-12-25");
        comparisonEx1 c1= new comparisonEx1(new Integer(args[0]), args[1], d1);
        comparisonEx1 c2= new comparisonEx1(new Integer(args[2]), args[3], d2);
        System.out.println(c1.compareTo(c2));
    }
}
```

```
fobn5:~/00P/Week5$ javac comparisonEx1.java
fobn5:~/00P/Week5$ java comparisonEx1 12 "abcd" 34 "efgh"
-4
fobn5:~/00P/Week5$ java comparisonEx1 12 "abcd" 34 "Efgh"
28
fobn5:~/00P/Week5$ java comparisonEx1 12 "abcd" 34 "1fgh"
48
```

