

```
package com.RefVariableUSedInterface;
```

```
import java.math.BigDecimal;
import java.util.Arrays;
import java.util.Comparator;
```

```
public class TestDemo {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        //
        String problem1[] = {"-100","50","0","56.6","90","0.12",".12","02.34","000.000"};
        // out put
        String problem11[] = {"90","56.6","50","02.34","0.12",".12","0","000.000","-100"};
        String problem2[] = {"123","45","766","324324",".324","0.325","-.234","4546","100","0"}    ;
        // out put
        String problem22[]= {"324324","4546","766","123","100","45","0.325",".324","0","-.234"};
        //
        comparedMethod1(problem2);
        comparedMethod1(problem1);
        //
        comparedMethod2(problem2);
        comparedMethod2(problem1);

    }
    //
    public static void comparedMethod1(String test[]) {
        //
        Arrays.sort(test, new Comparator<Object>() {
            @Override
            public int compare(Object a1, Object a2) {
                BigDecimal bigDec1 = new BigDecimal((String)a1);
                BigDecimal bigDec2 = new BigDecimal((String)a2);
                return bigDec2.compareTo(bigDec1);
            }
        });
        //
        display(test);
    }
    //
    public static void comparedMethod2(String s[]){
        //
        //Write your code here
        BigDecimal t1,b1,b2,a1,a2;
        String b;
        for(int i=0; i < s.length-1; i++)
        {
            b1 = new BigDecimal(s[i+1]);
            b2 = new BigDecimal(s[i]);
            if(b1.compareTo(b2) == 1)
            {
                b = s[i+1];
                s[i+1] = s[i];
                s[i] = b;
                for(int j = i ; j>=1; j=j-1)
                {
                    a1 = new BigDecimal(s[j]);
                    a2 = new BigDecimal(s[j-1]);

                    if(a1.compareTo(a2) == 1)
                    {
                        b = s[j];
                        s[j] = s[j-1];
                        s[j-1] = b;
                    }
                }
            }
        }
    }
    //
    display(s);

}
//
public static void display(String test[]){
    //
    System.out.println();
    for(int i=0;i<test.length;i++)
    {
        System.out.print(test[i]+" ");
    }
}
}
```

