Chapter 4 Generics

4.23 and 4.21:

here is the code for the max and min and also the main with the test which shows that it is working. I found the max and min of the list and it was correct with the outputs I had.

4.29:

Here is the code and I test
it with a main to see if the
answer was right and it
was since they weren't the
same and s1 was not the
same then it returns a 1.

4.36:

The code with person also the main to test out everything and it works. Also do test compare too. I am getting the right answer only thing I am returning -14 instead of just -1.

```
for( int i = 1; i < a.length; i++ )
   if( a[ i ].compareTo( a[ maxIndex ] ) > 0 )
        maxIndex = i;
public int compareTo(Person other){
    return getName().compareTo(other.getName());
   private String name;
private int age;
private String address;
private String phone;
  private int age;
private String address;
private String phone;
                                                public static void main( String [ ] args ){
   Person p1 = new Person("ris", 0, "", "");
   Person p2 = new Person("dfs", 0, "", "");
                                                        Person[]arr = {p1, p2};
           recusion
           Cons →
        ris 0
           - 14 Person [Java Application] C:\Program Files\Java\jdk-14.0.2\bin\javaw.exe_(Oct 6, 2021, 11:19:58 PM -
```

4.37:

Honestly didn't work and I'm not to sure how to do it. But this is what I had

```
public class SingleBuffer {
    private AnyType thing;
    private boolean empty;
    public SingleBuffer() {
        thing = null;
        empty = true;
    }

    public SingleBuffer(AnyType item) {
        thing = item;
        if(thing != null) {
            empty = false;
        }
        else {
            empty = true;
        }
    }
}
```