Handout B, p. 1: Useful Reference Items

Here are a few reminders of things we discussed in class, but that you might reasonably need a "reference" for if you were using them in the real world.

The interface java.util.Comparator<T> includes the following method signature:

			Compares this object with the specified object for order.
int	compare(T o1,	T 02)	Returns a negative integer, zero, or a positive integer
			as this object is less than, equal to, or greater than the specified object.

The interface java.lang.comparable<T> includes the following method signature:

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int	compareTo(T o)	Compares its two arguments for order. Returns a negative integer, zero, or a positive integer
		as the first argument is less than, equal to, or greater than the second.

The class java.util.ArrayList<E> includes this method:

void	sort(Comparator </th <th>super E></th> <th>c)</th> <th>Sorts this list according to the order induced by the specified comparator.</th>	super E>	c)	Sorts this list according to the order induced by the specified comparator.
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The class java.util.Collections contains the following static method:

static <t comparable<?="" extends="" super="" t="">> void</t>	sort(List <t> list)</t>	Sorts the specified list into ascending order, according to the natural ordering of its elements.
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And finally, java.lang.String implements Comparable<String> in the way that you would expect.

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Handout B, p. 2: Sample Output

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$ java StudentMain
Student(6234567,"Bob",3.25,CMPSC)
Student(7152353,"Charlie",3.96,CMPSC)
Student(2352353,"Alice",3.97,CMPEN)
Student(2888888,"Danielle",4.00,CMPSC)
Student(1152353,"Ed",2.90,CMPEN)
$ java StudentMain name
Student(2352353,"Alice",3.97,CMPEN)
Student(6234567,"Bob",3.25,CMPSC)
Student(7152353,"Charlie",3.96,CMPSC)
Student(2888888,"Danielle",4.00,CMPSC)
Student(1152353,"Ed",2.90,CMPEN)
$ java StudentMain perm
Student(1152353,"Ed",2.90,CMPEN)
Student(2352353,"Alice",3.97,CMPEN)
Student(2352353,"Alice",3.97,CMPEN)
Student(2888888,"Danielle",4.00,CMPSC)
Student(6234567,"Bob",3.25,CMPSC)
Student(7152353,"Charlie",3.96,CMPSC)
$
```

End of Handout