

## Assignment 1: Complexity and Sorting - Marking Criteria

As a group, evaluate your work against each criterion and assign yourselves a mark for each row. If you would like, provide a short explanation for the self-assigned mark in the Notes column.

Note: If your program (the jar file and/or eclipse project) does not run due to compilation, runtime or logic errors, you will receive an automatic zero grade on this assignment!

	<b>Needs Improvement (0–50%)</b>	<b>Good (51–75%)</b>	<b>Excellent (76–100%)</b>	<b>Group- Assigned Mark</b>	<b>Notes</b>
<b>Working Code</b>	<ul style="list-style-type: none"><li>• Command line does not work properly and does not generate the objects</li></ul>	<ul style="list-style-type: none"><li>• Command line works and partially generates the objects</li></ul>	<ul style="list-style-type: none"><li>• Command line works properly and generates the objects</li></ul>	<b>10/10</b>	
<b>Style</b>	<ul style="list-style-type: none"><li>• Sorting algorithms don't work on list of Comparables</li></ul>	<ul style="list-style-type: none"><li>• Sorting algorithms partially work on a list of Comparables</li></ul>	<ul style="list-style-type: none"><li>• Sorting algorithms work on a list of Comparables</li></ul>	<b>5/5</b>	
<b>Testing</b>	<ul style="list-style-type: none"><li>• Comparable/ Comparator not implemented correctly</li></ul>	<ul style="list-style-type: none"><li>• Comparable/ Comparator partially implemented</li></ul>	<ul style="list-style-type: none"><li>• Comparable/ Comparator implemented correctly</li></ul>	<b>5/5</b>	
<b>OOP Models</b>	<ul style="list-style-type: none"><li>• Didn't use correct OOP modelling of objects</li></ul>	<ul style="list-style-type: none"><li>• Used somewhat correct OOP modelling of objects</li></ul>	<ul style="list-style-type: none"><li>• Used correct OOP modelling of objects</li></ul>	<b>5/5</b>	

<b>Java Conventions</b>	<ul style="list-style-type: none"> <li>Incorrect naming and packaging of classes according to Java standards</li> </ul>	<ul style="list-style-type: none"> <li>Partially correct naming and packaging of classes according to Java standards</li> </ul>	<ul style="list-style-type: none"> <li>Correct naming and packaging of classes according to Java standards</li> </ul>	<b>5/5</b>	
<b>Bubble</b>	<ul style="list-style-type: none"> <li>Bubble sort not implemented in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Bubble sort implemented partially in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Bubble sort implemented in utility class</li> </ul>	<b>5/5</b>	
<b>Selection</b>	<ul style="list-style-type: none"> <li>Selection sort not implemented in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Selection sort implemented partially in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Selection sort implemented in utility class</li> </ul>	<b>5/5</b>	
<b>Insertion</b>	<ul style="list-style-type: none"> <li>Insertion sort not implemented in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Insertion sort implemented partially in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Insertion sort implemented in utility class</li> </ul>	<b>5/5</b>	
<b>Merge</b>	<ul style="list-style-type: none"> <li>Merge sort not implemented in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Merge sort implemented partially in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Merge sort implemented in utility class</li> </ul>	<b>10/10</b>	
<b>Quick</b>	<ul style="list-style-type: none"> <li>Quick sort not implemented in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Quick sort implemented partially in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Quick sort implemented in utility class</li> </ul>	<b>10/10</b>	

<b>Choice</b>	<ul style="list-style-type: none"> <li>Student's choice of sorting algorithm not implemented in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Student's choice of sorting algorithm partially implemented in utility class</li> </ul>	<ul style="list-style-type: none"> <li>Student's choice of sorting algorithm correctly implemented in utility class</li> </ul>	<b>5/5</b>	
<b>Analysis</b>	<ul style="list-style-type: none"> <li>Description and complexity analysis are unclear</li> </ul>	<ul style="list-style-type: none"> <li>Description and complexity analysis are partially clear</li> </ul>	<ul style="list-style-type: none"> <li>Description and complexity analysis are clear</li> </ul>	<b>5/5</b>	
<b>Output</b>	<ul style="list-style-type: none"> <li>Sort Output is dissimilar to expected</li> </ul>	<ul style="list-style-type: none"> <li>Sort Output is somewhat similar to expected</li> </ul>	<ul style="list-style-type: none"> <li>Sort Output matches what is expected</li> </ul>	<b>5/5</b>	
<b>Benchmarking</b>	<ul style="list-style-type: none"> <li>Incorrect timing of sorts shown</li> </ul>	<ul style="list-style-type: none"> <li>Somewhat correct timing of sorts shown</li> </ul>	<ul style="list-style-type: none"> <li>Correct timing of sorts shown</li> </ul>	<b>5/5</b>	
<b>Documentation</b>	<ul style="list-style-type: none"> <li>No Readmes/Instructions or javadoc documentation submitted</li> </ul>	<ul style="list-style-type: none"> <li>Some Readmes/Instructions and javadoc documentation submitted</li> </ul>	<ul style="list-style-type: none"> <li>All Readmes/Instructions and javadoc documentation submitted correctly</li> </ul>	<b>5/5</b>	

<b>Group Evaluation</b>	<ul style="list-style-type: none"><li>• No group application evaluation submitted.</li></ul>	<ul style="list-style-type: none"><li>• Some parts of the group application evaluation submitted.</li></ul>	<ul style="list-style-type: none"><li>• All parts of the group application evaluation submitted.</li></ul>	<b>5/5</b>	
<b>Total</b>				<b>95/95</b>	