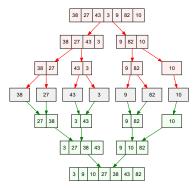


PO: MERGESORT

BACKGROUND

The publisher of the Cormen textbook has engaged you to write a reference implementation of the MergeSort algorithm presented in the book. They are looking for code that is faithful to the design while adapted appropriately for the Java programming idiom.



ASSIGNMENT

Create a Sorter class that implements the merge sort algorithm described in Cormen (2009), pp 30—37.

Feature	Specification	Information
Package	edu.metrostate.ics340.p0.aannnn.merge	aannnn is your Student Identifier (all lower case)
Class	Sorter	
Constructors	N/A	Utility class with only static methods.
Methods	<pre>public static <t comparable<t="" extends="">> void sort (T [] items)</t></pre>	Given an array of items, sorts the array using the merge sort algorithm as described in Cormen(2009).
Input	T [] items	Array of Comparable values of parameterized type T Precondition: items cannot be null
Output	void	N/A

PROJECT REQUIREMENTS

	Requirements
Submission	Your submission shall be an exported Eclipse project archive zip file

Copyright © 2022 Ralph A. Foy. All Rights Reserved.

	Requirements	
	Project type: Java Archive zip with sources	
	 Project type: Java Alcinve zip with sources Project Name: P0_AAnnnn_MergeSort, where 	
	 AAnnnn is your "student identifier" where 	
	■ AA:your initials	
	• <i>nnnn</i> : the 4 digits embedded in your StarID	
	The zip file must contain your Java sources.	
	Your classes must be in a package named with the following prefix:	
	edu.metrostate.ics340.p0.aannnn.merge	
Code	where <i>aannnn</i> is your student identifier as described above The Constructors and methods defined in the capabilities table will be	
Code	-	
	public, spelled as specified, and with the return type as specified (void	
	otherwise).	
	Vous aubmissions will be tested with an automated testing former and	
	Your submissions will be tested with an automated testing framework	
	and therefore must adhere to the specification. Also ensure the Eclipse	
	project is running at code Java code level 14.	
	37 1 1 1 1 1 1 1 1	
	Your code must be free of compile-time errors.	
	Vour gode must comply with Java goding conventions per the course	
	Your code must comply with Java coding conventions per the course	
	Content / Resources in D2L.	
	All public members must have Javades comments	
	All public members must have Javadoc comments.	
	You are encouraged to develop any helper methods or classes as you	
	deem fit. It is generally advisable to make them <i>non-public</i> —only	
	specified methods should be public.	
Tests	You must also provide a test class, separate from the calculator,	
	showing your test cases. It does not have to be a JUnit test, but that	
	would be <i>highly</i> recommended.	
	Your tests should demonstrate how you ensure your work meets the	
	specification.	
	•	
	The tests should validate preconditions and boundary cases.	
	·	
APIs	You may use:	
	Apache Commons Lang, v 3.12	
	Apache Commons Collections v4.4	
	-	
	Google Guava v 31.0.1	