CSCI 230 PROGRAM 7

Due

The due date is specified in the OAKS dropbox.

OBJECTIVES

• To implement a heapsort method using the Heap data type

PROGRAM REQUIREMENTS

Write and test a heapsort program. The program will generate random integers in an ArrayList of a length that the user specifies. Then it will sort the list then print both the unsorted list and the sorted list to the console using a comma as the delimiter.

PROGRAM SPECIFICATION

Sample I/O:

Enter the size of the list to generate: 10
Original list:
Sorted list:
Time to sort:

Abstract Data Type:

Heap

REFERENCES

None

GUI:

No GUI. Use the console for I/O.

PROGRAM DOCUMENTATION

Provide internal documentation only as required in the program documentation standard in OAKS. Updates and clarifications to this assignment, if needed, will be done on Discussions.

PROGRAM SUBMISSION

Use the corresponding dropbox in OAKS using the same naming conventions as given in Program 1.