CLC – Assignment 3

This is a Collaborative Learning Community (CLC) Assignment.

The purpose of this assignment is to assess your ability to:

* Utilize recursion trees to demonstrate and trace recursive algorithms
* Analyze and compare algorithms for efficiency using Big-O notation

Create a video in which you demonstrate either merge sort or quick sort. Your video should not contain any code. You and your partner will use a collection of items of your choice that can be ordered.

Your video should:

1. Analyze and compare algorithms for efficiency using Big-Theta notation with clear, correct justification (worst case and best case/runtime)
2. Demonstrate how to utilize recursion trees, trace recursive algorithms and the sorting algorithm
3. Incorporate appropriate visual aids to help clarify main points, as applicable
4. Be between 2-5 minutes in length
5. Feature both partners

Be sure you listen to your video before submission. Any video with sound issues will not be accepted.

Submit a document in LoudCloud that contains:

1. Both partner’s names
2. A link to your Loom video (YouTube will not be accepted.)
3. A statement that the work is your own

This assignment uses a rubric. Review the rubric prior to beginning the assignment to become familiar with the expectations for successful completion.

APA style is not required, but solid academic writing is expected.

You are not required to submit this assignment to LopesWrite.

*This assignment introduces competency: Communicate effectively and convey professional demeanor in a variety of professional contexts.*