CLC – Assignment 4

This is a Collaborative Learning Community (CLC) Assignment.

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

* Describe properties of self-balancing search trees and heaps
* Analyze and compare algorithms for efficiency using Big-O notation
* Function effectively as part of a team

With your partner, create a video in which you describe a red-black tree and demonstrate the way in which it maintains balance. Describe reasons why a balanced tree is desirable. Compare the Big-O analysis for searching in balanced versus unbalanced binary trees. Provide a formal justification for your analysis. In other words, justify your analysis using mathematical and logical arguments.

You are being evaluated on your ability to function effectively as a team. It must be evident in your video that the effort was collaborative.

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. Please 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 the following competency : Function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline.*