PROLOGUE

FOR ALL ASSIGNMENTS

- Attach a *prologue* for all assignments.
- Use sample *prologue* sheet in the course material, customize it for every assignment.
- *Prologue* makes it easy to separate assignments for grading purpose.

EXERCISE 14

PROBLEM

Read the following numbers from an input file in the same order. (Note: Do not assign an array with input values.)

572, 430, 315, 363, 320, 545, 451, 437, 476, 472, 493, 395, 462, 521, 406, 412, 510, 560, 425, 595, 580, 583, 531, 511, 459, 518, 356, 379, 488, 532

Using a B-tree structure read the numbers and form the tree. All keys in the nodes of the left subtree will be lower than parent key and all keys in the right subtree are higher than the parent key. Traverse the tree in inorder after each split. Print the input values and the output node key values in inorder to output file.

DELIVERABLES

Write the prolog and fill up all information for this exercise as given in the sample. Submit the source code, input and the output files. The program is expected to be well commented. Place your program as soft copy on assigned shared drive for students of this course.

DUE DATES

Assignments are due on the following week after completing the chapter discussion.