Homework #4 Max Heap

Yunmin Go

School of CSEE



HW#4

- Write a MaxHeap class represented as a linked binary tree. Assume that each node has parent field as well as the usual left child, right child, and data fields.
 - Use a tree_node structure below.
 - Modify the source codes of Practice #9.
 - File names should be changed to LMaxHeap.h, LMaxHeap.cpp, and LMaxHeapMain.cpp
 - The parameter of insert function and the return data type of delete function are an *Element* structure which has key and data.
 - Please submit all files related to your source codes.

```
typedef struct {
    int key;
    string data;
} Element;
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```

Requirements

- All of C-style functions and headers are allowed.
 - E.g., printf, fopen, fgets, etc.
- Write clean source code
 - Add proper comment in your source code
 - Consider code indentation for enhancing readability
- Submit your screenshots.



Requirements

For unmentioned requirements, you can implement freely.

- Test your source codes with many cases for self verification.
- Upload ZIP file on LMS by compressing all your source codes and screenshots
 - File name: hw04_student id.zip (ex: hw04_20400022.zip)
- Due date: 11pm, 5/11 (Tue)

