

09. Heaps

dbserver.korea@gmail.com

Agenda

- Heap Problem
 - Heap ADT Implementation
 - Optional Problem

Heap ADT

- Implement a Heap ADT
- Operations :
 - heapCreate – create an empty heap
 - heapDestroy – delete all elements of the heap and free heap
 - heapInsert – insert the value into the given heap
 - heapDelete – delete the root of the given heap
 - heapCount – return the number of
 - heapFull – return true if the heap is full
 - heapEmpty – return true if the heap is empty
 - heapTraverse – traverse values in the given heap
- You may add additional functions to implement heap implementation (e.g., reheapUp, reheapDown...)

Heap Sort

- This slide is optional. (It is not mandatory)
- Implement a heap sort.
 - Make a sort function
 - Sort an array