

9. Heaps

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Agenda

Instruction

Heap ADT Implementation

Optional Problem

Heap ADT implementation

Heap ADT for Integer

heapCreate – create an empty 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

heapDestroy – delete all elements of the heap and free heap

You may add additional functions to implement heap implementation (e.g., reheapUp, reheapDown...)

Optional Problem

Homework of this slide is optional. It is not mandatory

Implement heap sort

Sort the given array