My Notes

Ch l 優先行列 Priority Queues

| | | | | | - | 0 |
|------|------|---|---|----|---|---|
| (21) | IPIL | P | - | FL | | U |

| · Sorting Algorithm | Worst case | Average cas | e | | |
|---------------------|----------------|-------------|----------|--|--|
| Selection | V ₂ | Ŋ, | 還最小或最大資料 | | |
| Bubble | n² | n² | | | |
| Insertion | n² | n² | | | |
| Merge | nlogn | nlogn | | | |
| Quick | n ² | nlogn | | | |
| Radix | n | n | | | |
| Heap | nlogn | n log h | | | |
| Binary search tree | η² | nlogh | | | |

· Heap 堆積

- -Balanced binary tree
- Complete
- min-Heap 最小的在稜根
- -max-Heap-最大的在桂林艮
- the value stored at a node is greater (smaller) or equal to the value

由上到下,由左到右 =) complete

Punctuality; Showing, esteem for others by doing the right things at the right time. 2 Stored at the ohildren

My Questions Problems & Difficulties needi

My Opinions

- · Heap Insert
 - >新增資料於 bottom 後, 由下而上追溯資料調整
 - → O (logn)
- · Heap Delete
 - -> copy the bottom rightmost element to the mot.
 - -> Delete the bottom rightmost mode.
 - → Fix the heap property (由上而下)
 - → O (logn)
- ·以陣列建heap

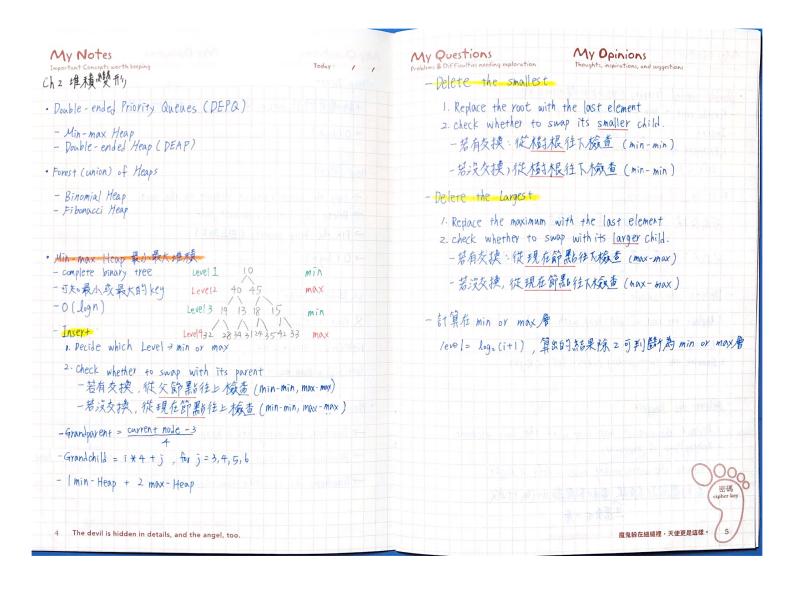
parent = child-1

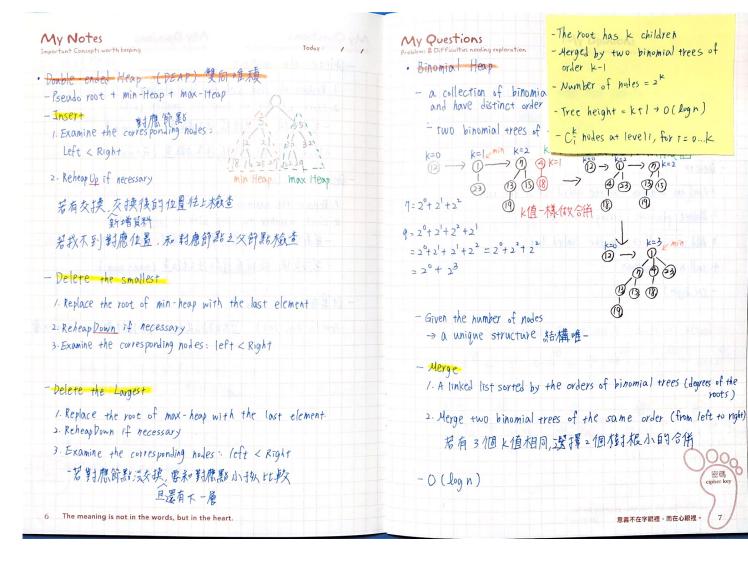
right Child = now * 2 +2

left Child = now *2 +

- · Heap Sort
 - -> Transform the array into a heap
 - → Exchanging the root of the heap with the lost element of the heap
 - -> Transforms the resulting semi-heap back into a heap

守時:在對的時間,做對的事,來表明對別人的尊重。





密碼 pher key

