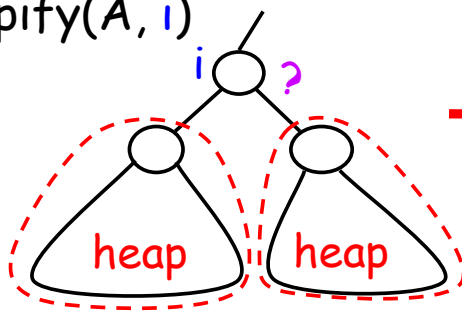
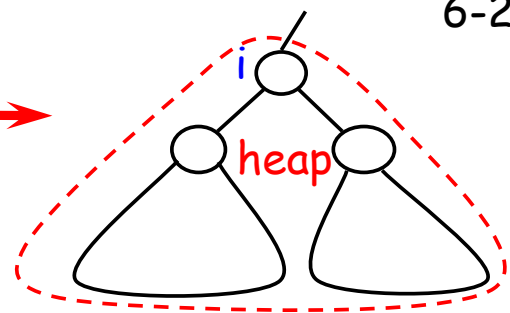


Heapify(A, i)

6-2a

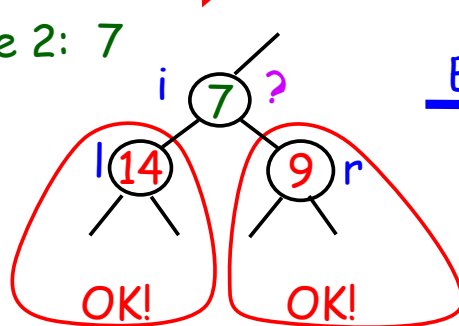


Heapify



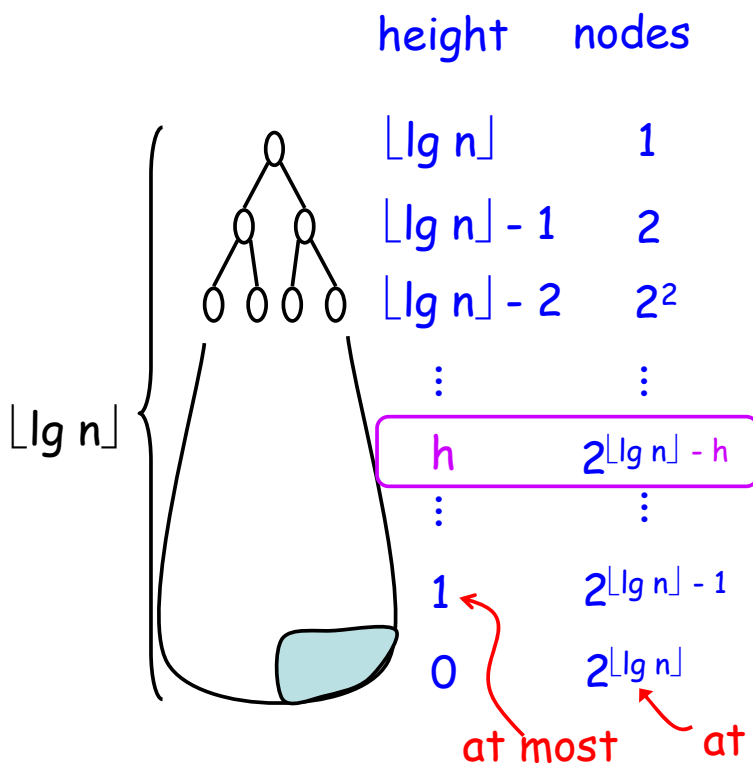
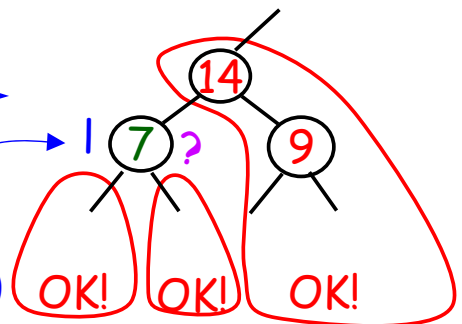
Case 1: 19 \Rightarrow Done!

Case 2: 7



①
Exchange 7, 14

②
Heapify(A, l)
(recursive call)



課本用 $\lceil \frac{n}{2^{h+1}} \rceil$

6-3a

比較準，但沒好處

$$\sum_{h=0}^{\lfloor \lg n \rfloor} 2^{\lfloor \lg n \rfloor - h} O(h)$$

$$\leq \sum \frac{n}{2^h} O(h)$$

$$\leq O(n \times \sum \frac{h}{2^h})$$

$$\leq O(n \times 2)$$

$$\sum kx^k = \frac{x}{(1-x)^2}$$