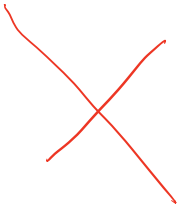
6.4 Heap sort

-> Heap :



-> max heap:

heap up:

2^0

2^1

2^2

i

$2i+1$

$2i+2$

j

Where are the children?

Where are the parents?

→ Insert costs $\lfloor \log n \rfloor$

Removing From the heap

3 2^0

2^1

15 2^2

3 15

length −1

Remove 15

Loop n-1 times

13

3 6

13 6 2 3

3