

- Heap is a Complete Binary tree
- Depending on the properties heap can be either max heap / min heap.

a heap is max heap if:

- element at root is maximum of all elements

min heap if:

- -11- is minimum of all elements.

• Heap has only 'insert' and 'delete', there is no 'search' feature so, deletion occurs only at root!

• Heap is aka 'Priority queue', element at top has highest priority.

When you delete from heap:

Step 1:

move last element to index 0, decrement rear

Compare index of ' $2i + 1$ ' and ' $2i + 2$ ', greater becomes root. This continues till γ is at right location.

insert (adjust)

remove (heapify)