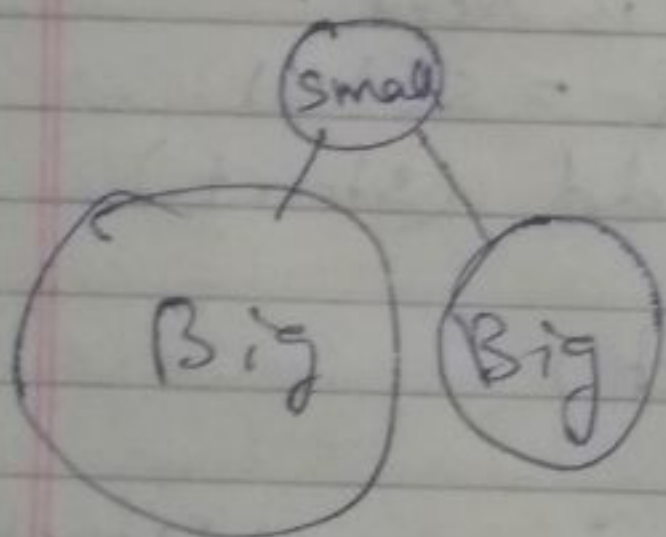


DAY - 16

Min Heap Vs. Max Heap

* Both are complete binary tree with some unique properties.

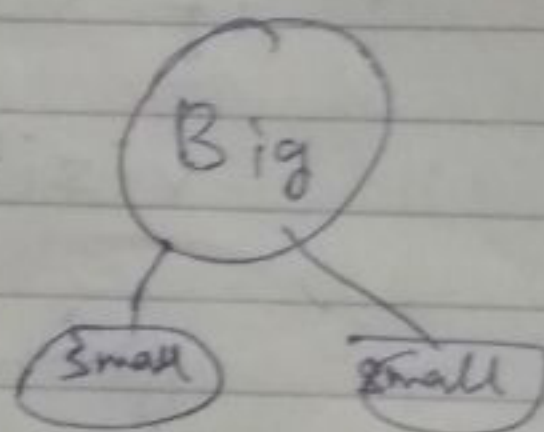
* Complete Binary Tree is a binary tree in which every level (except possibly the last), is filled.



Min-Heap

→ root node holds minimum value

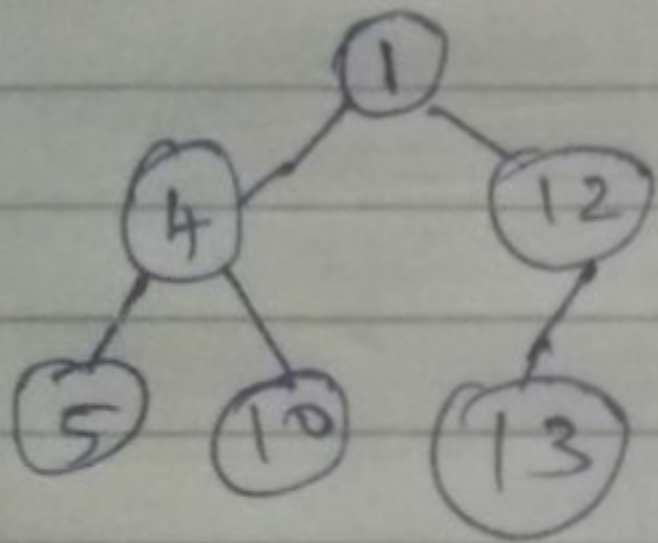
→ the value of each node is equal to or greater than the value of its parent node



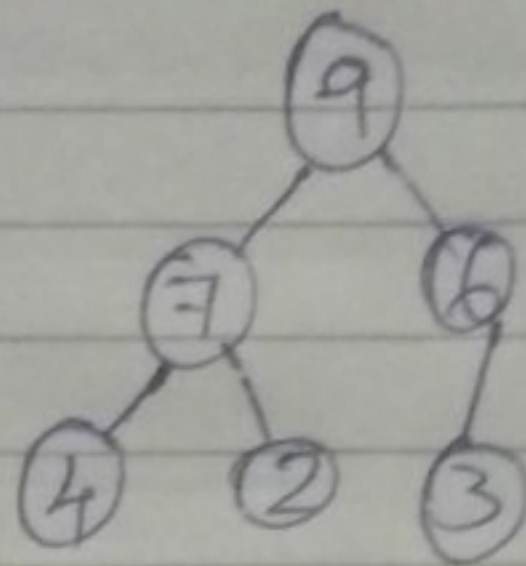
Max-Heap

→ the root node has the maximum value.

→ the value of each node is equal to or less than the value of its parent node.



Arr = [1, 4, 12, 5, 10, 13]



Arr = [9, 7, 6, 4, 2, 3]

Representation! -

* an array (list).

Arr[0] - the root node.

Arr[(i-1)/2] - the parent node

Arr[(2*i)+1] - the left child node

Arr[(2*i)+2] - the right child node