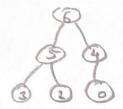
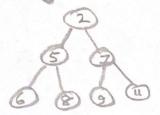
HEAP TREE

· It is a complete binary free

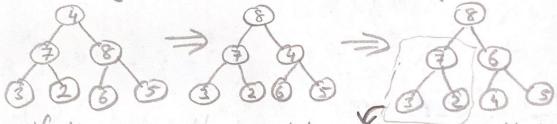


Max heap tree
A[povent] > A[child]



Min heap tree Asparent] < Aschild]

· Left child may be greater than right child Heapify: If the heap tree is wrong switch the parent with max child (for max heap). And if we do this "recursive "switched side subtree" eventually will be akey for heap order.



if there was a mistake here, we couldn't fix it only with heapify. Because it looks only switched subtree

Complexity of heopify -> Ollogn)

off we worted to control whether it is heap tree or not, it would be enough 1/2 to tinder since more than 1/2 are leaf nodes.

. To find the min element in max-heep tree, we should check all leafs. It means N/2 to N

