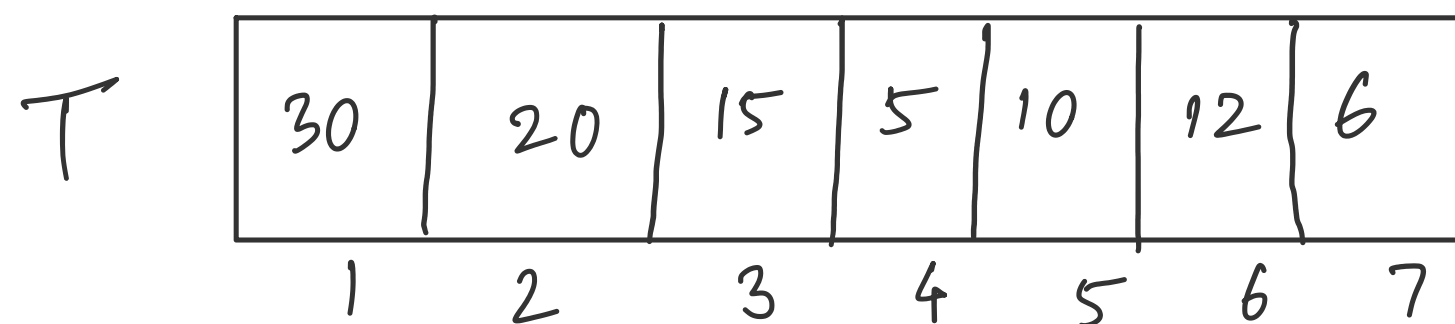
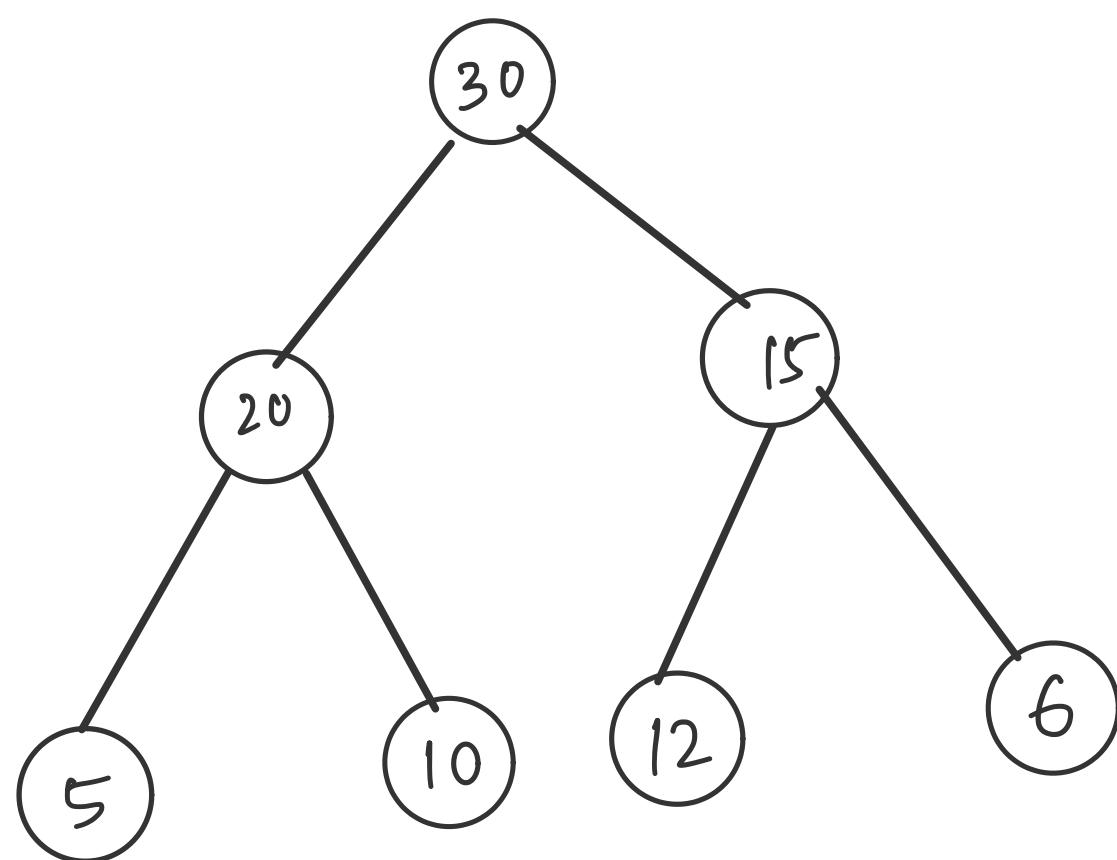


\Rightarrow heap is a complete binary tree

Max heap



Node at index i

Left child at index $2*i$

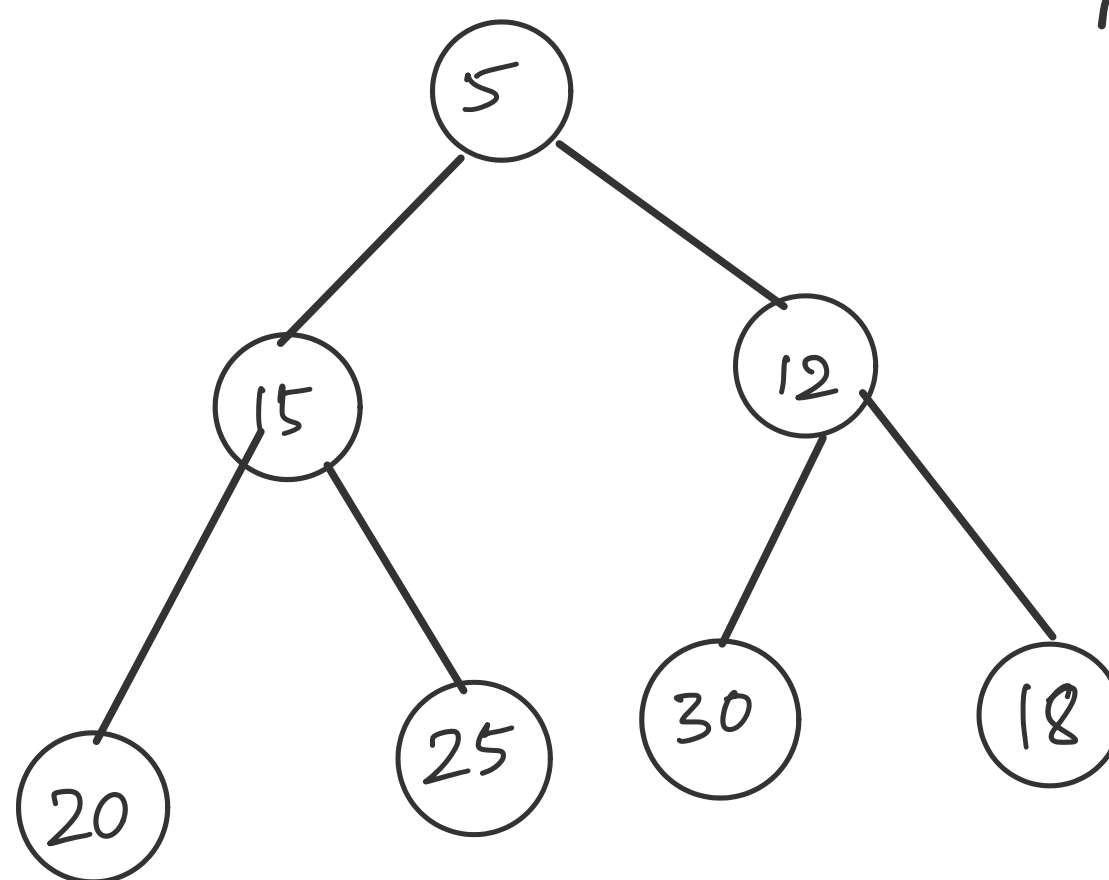
Right child at index $2*i+1$

\Rightarrow Every node having its value greater than or equal to its descendants \Rightarrow Max heap

\Rightarrow heaps are represented mostly using array.

height of heap always $\log(n)$

Min heap



every node is having value smaller than or equal to its descendants.